webMethods API Gateway 10.11 Readme

October 2021

This file contains important information you must read before using webMethods API Gateway 10.11. You can find system requirements, user documentation, and installation and upgrade instructions on the [Documentation website](#) or the [TECHcommunity website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0   Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0   Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

▪ CJP-444

   Kerberos authentication fails with 401

   With the current Azul JDK version, Kerberos authentication is unable to authenticate and throws 401 for legit users also.

▪ YAI-22740

   Analytics for Packages displays error when Team Work is enabled.

   When Team Work is enabled in API Gateway and user navigates to the Analytics page of Packages, query exceptions are shown.

▪ YAI-22853

   REST API calls for APIs and archive fails due to new parameters.

   When older version client invokes the REST APIs, invocations are failing due to new parameters introduced in this version.

▪ YAI-22710

   The "action on startup failure" configuration does not work properly.

   With Ignite clustering the "action on startup failure" configuration does not work properly. In case of cluster failure, the server is hanging in startup process.

3.0   Usage Notes

This section provides any additional information you need to work with the current release of this product.

▪ Before using API Gateway, consider the following points:

   ▪ API Gateway package in Integration Server cannot co-exist with the WmMediator or WmCloudStreams packages. WmMediator and WmCloudStreams packages must be disabled for API Gateway to function properly.

   ▪ webMethods API Gateway combines current webMethods Enterprise Gateway and webMethods Mediator capabilities in a single product. API Gateway offers the same capabilities

within a simplified architecture. It also removes the dependency on CentraSite for API definition and policy definition.

- API Gateway comes in two editions. The Standard edition allows users to define threat protection policies and provides analytics for threat protection use cases. Typically, Standard editions are deployed in DMZ.
Full edition supports all use cases of Standard edition, supports managing APIs, consumer applications, API-level policies, and managing API packages and plans.

- When API Gateway and API Gateway Data Store are already running and IP address is changed, connection between API Gateway and the Data Store is lost. Restart the API Gateway Data Store to reconnect to API Gateway.

- API Gateway uses the `pub.client:http` IS service to invoke HTTP based services.

  - An Integration Server property 'watt.net.http401.throwException' allows the `pub.client:http` service to throw NetException for a 401 Unauthorized response from native service. This property was by default set to 'true' in Integration Server (in the Integration Server Administrator, go to Settings > Extended link). As a result, the response from API Gateway did not include the native service response body in case of 401 responses from native service. Beginning with API Gateway version 10.3, the watt.net.http401.throwException property is by default set to 'false' in Integration Server. Now, the `pub.client:http` service will not throw a NetException for 401 unauthorized responses from the native service. API Gateway will receive the 401 response body and send the native API provider's fault content (if available) to the application if the Send native provider fault option is enabled in API Gateway (in the API Gateway user interface, go to Username > Administration > General > API fault).

  - An Integration Server property 'watt.net.http501-599.throwException' allows the `pub.client:http` service to throw NetException for a HTTP response status code that varies from 501 to 599 from native service. This property was by default set to 'true' in Integration Server (in the Integration Server Administrator, go to Settings > Extended link). As a result, the response from API Gateway did not include the native service response body in case of 501 to 599 responses from native service. Beginning with API Gateway version 10.3, the 'watt.net.http501-599.throwException' property is by default set to 'false' in Integration Server. Now, the `pub.client:http` service will not throw a NetException for HTTP 501 to 599 responses from the native service. API Gateway will receive the 501 to 599 response body and send the native API provider's fault content (if available) to the application if the Send native provider fault option is enabled in API Gateway (in the API Gateway user interface, go to Username > Administration > General > API fault).

Note: These configuration changes may negatively impact any webMethods product instance, which is installed with an instance of Integration Server on which API Gateway is running. Software AG recommends that you use an instance of Integration Server dedicated for API Gateway.

4.0   Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Release 10.7

- YAI_10.7_Fix7

Release 10.5

- YAI_10.5_Fix16

Release 10.4

- YAI_10.4_Fix4

Release 10.3

- YAI_10.3_Fix25

Release 10.2

- YAI_10.2_Fix5

Release 10.1

- YAI_10.1_Fix30

Release 10.0

- YAI_10.0_Fix9

Release 9.12

- YAI_9.12_Fix9

5.0 Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

6.0 Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

The online help in the product was created at an early stage of the product freeze. The most recent information is included in the API Gateway documentation, which is provided on https://documentation.softwareag.com/.

Release 10.11

The content in API Gateway Configuration Guide is now categorized and the following new artifacts have been created and added under the API Gateway information set:

- webMethods API Gateway Administration: This document contains information on API Gateway deployment, operations, and Administration.

- webMethods API Gateway Staging and Promotion: This document contains information on staging and promotion of assets in API Gateway.

- webMethods API Gateway Upgrade and Migration: This document contains information on major and minor upgrades and migration in API Gateway.

Release 10.7

The following artifacts have been introduced for API Gateway 10.7:

- webMethods API Gateway Quick Start: This is published as single PDF and as a part of webMethods API Gateway WebHelp. It explains a simple use case of creating an API using API Gateway and publishing the same to API Portal.

Release 10.3

The following artifacts have been introduced for API Gateway 10.3:

- webMethods API Gateway WebHelp: This is single HTML output that contains all the PDFs available for API Gateway on Empower.

Release 10.0

The following artifacts have been introduced for API Gateway 10.0:

- webMethods API Gateway Quick Start Guide: This is single page PDF output that gives an overview of setting up API Gateway.

Release 9.12

The following artifacts have been introduced for API Gateway 9.12:

- webMethods API Gateway Online Help

- webMethods API Gateway User's Guide: This guide describes how you can use API Gateway and other API Gateway components to effectively manage APIs for services that you want to expose to consumers, whether inside your organization or outside to partners and third parties.

- webMethods API Gateway Configuration Guide: This guide describes how you can configure API Gateway and other API Gateway components to effectively manage APIs for services that you want to expose to consumers, whether inside your organization or outside to partners and third parties.

7.0   Terminology Changes

A release is listed in this section only if changes occurred in that release.

8.0 Added, Removed, Deprecated, or Changed Items

This section lists features, functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 10.11

Added Item	Description
Change Administrator's default password	During installation, the default Administrator user's password can be defined.
	Change password on first login can be enforced.
GraphQL support	GraphQL API type can be managed in API Gateway.
Trace and Replay support for API Calls	With Trace API support, the complete life cycle can be monitored for any runtime requests within API Gateway.
	API calls can be traced and inspected at granular level.
	For GA, the number of supported policy actions are limited. More policy actions will be supported in the upcoming fixes.
Publish performance metrics to CentraSite	Performance metrics can be published to CentraSite destination using new REST APIs that are exposed by CentraSite.
Proof Key for Code Exchange Support	Support for PKCE to secure OAuth 2.0 public clients that use the Authorization Code Grant.

Changed Item	Description
Enhancements to SOAP to REST transformation	SOAP to REST transformation feature is enhanced with the following: • Schema validation enhancements • SOAP Operation handling in JSON responses • Single node Array handling
Simplified API Gateway clustering	API Gateway can be clustered without using Terracotta server array and without any additional runtime.
	Distributed caching is limited for data aggregation cases like throttling and metrics.

Changed Item	Description
Enhancements to API Gateway backup and restore	Backup and restore activities are enhanced with the following: • The log level and log file location can be defined for backup and restore operations • Activity status monitoring • Rollover support • Backup of selective index.
Enhancements to API Monetization	API Monetization feature is enhanced with the following: • REST API for monetization included • Supports meta data changes • Hot edit of packages and plans • Notifications for quota breach scenarios.
Enhancements to SSO implementation	SSO implementation is enhanced with the following: • SSO configuration and generation of Service Provider metadata is simplified • Supports user attributes mapping • Avoids multiple restarts while enabling SSO configuration
Enhancements to Archive and Purge	Archive and Purge is enhanced with the following: • Purge operations can be performed based on conditions • API Gateway UI displays detailed job status for archive and purge • Resource handling and performance enhancements • Improved the user experience for archive and purge operation

Release 10.7

Added Item	Description
AppMesh API and Microservice updates	API or Microservice updates can be provisioned without impact on the service availability.
	AppMesh page lists microservices exposed over cluster ports, load balancer ports, and Ingress ports.
Tags for global policies and teams	Global policies can be applied to a set of APIs or to specific REST resources and SOAP operations based on the tags specified for the APIs or its resources and operations.
	Global team assignment for APIs can be done based on the tags of the APIs.
Bind access of APIs with ports	Bind access of REST and OData APIs with specific ports can be defined with allowed or denied list of APIs or paths. When default is to allow all, a denied list can be defined; and when default is to deny all, an allowed list can be defined.
Upgrade with no downtime	Upgrade to major or minor version without any downtime for the runtime transactions.
	Quiesce mode is introduced to disable access to an API Gateway server temporarily so that the upgrade tasks can be performed.
Custom Dashboards	Analytics dashboards can be built by composing different widgets and construct a custom dashboard along with predefined dashboards.
Monetization updates	Monetization feature is enhanced with the following:
	- To display all the subscriptions made and their status, in addition to packages and plans.
	- To monitor the usage consumption, such as current usage, remaining time and quota left and so on.
	- To include new metrics like calendar week and calendar month to monitor the usage.
Custom Destinations	New event destinations can be defined as custom destinations apart from the predefined destinations and the custom destination can be selected as part of Traffic Monitoring policy actions to transmit selected event types.

Added Item	Description
Conditional error processing updates	Variable based fault processing and transformation where multiple fault cases can be grouped based on conditions. Response headers and status can be transformed as per the defined policy conditions.
Variable framework updates	Variables are made available across policy stages where system and custom variables and values from request and response can all be accessed using variable syntax in applicable policies.

Changed Item	Description
Policy labels and action to add policy	Policy labels with a long name are shortened as follows.
	An Add icon is introduced for each policy, which you can use to add the corresponding policy to an API.
	Identify & Authorize Application ==> Identify & Authorize
	Inbound Authentication – Message ==> Inbound Auth – Message
	Outbound Authentication – Transport ==> Outbound Auth – Transport
	Outbound Authentication – Message ==> Outbound Auth – Message
	JMS/AMQP Routing for SOAP ==> JMS/AMQP SOAP Routing
	JMS/AMQP Routing for REST ==> JMS/AMQP REST Routing
	JMS/AMQP Properties for SOAP ==> JMS/AMQP SOAP Properties
	JMS/AMQP Properties for REST ==> JMS/AMQP REST Properties
	Monitor Service Performance ==> Monitor Performance
	Monitor Service Level Agreement ==> Monitor Level Agreement
	Throttling Traffic Optimization ==> Traffic Optimization

Deprecated Item	Replacement, if any
The following scripts are deprecated and will be removed in future releases: Windows version: apigw-backup-packages.bat, apigw-backup-tenant.bat, apigw-upgrade-backup.bat, and apigw-restore-tenant.bat Linux version: apigw-backup-packages.sh, apigw-backup-tenant.sh, apigw-upgrade-backup.sh, and apigw-restore-tenant.sh	The following script should be used instead: Windows version: apigatewayUtil.bat Linux version: apigatewayUtil.sh

Removed Item	Description
Search Guard	The Search Guard plugin, which is used to secure API Gateway Data Store communications, is not available in the installation by default. It can be installed and used separately.

Release 10.5

Added Item	Description
Custom Runtime Policies	API Providers can now invoke any external services, which can act as a runtime policy as part of the policy enforcement and thus can support custom runtime policies. Custom policies can be included in the stages such as, Identify and Access or Payload processing stages, or Routing stage. AWS Lambda functions also can be considered for custom policies.
Team work Support	Team work support is to provide access control based on team-specific privileges in the deployments where multiple teams work on a single API Gateway instance. Assets of type API, Application, Package, Plan would be team-specific in such deployments and deployments where teams is not applicable, this can be switched off.
API First	API-first is an approach where the design and development of an API comes before the implementation. API Gateway can now cater provider-complaint specification that can be used to register API first in API Gateway as part of API-first approach.
Externalization of configurations	Inter-component configurations and cluster configurations are available at different locations causing maintainability and operational overhead. A new centralized configuration management is introduced in this version where configuration of API Gateway, Kibana, and filebeat connections to Elasticsearch and API Gateway, Elasticsearch and Terracotta cluster configurations for clustering is supported.
Command Central integration	API Gateway integration with Command Central is enhanced for managing API Gateway instances through Command Central for Logs, Ports, Licensing, and Clustering configuration. The same is supported now through Command Central templates as well.
Change ownership of Assets	Ownership of API and Application type assets can be transferred to a different user and can be implemented with Approval flow if desired. This would help to overcome the unavailability of specific data in the case where the current owner is not available in the system.

Added Item	Description
Governed API development	APIs provided by CentraSite are considered read-only if a CentraSite destination is configured. If there is no CentraSite destination there is no connection to CentraSite and therefore no read-only restriction needs to be enforced. Scopes and policies can still be updated in API Gateway.

Changed Item	Description
Internal Data Store	Internal Data Store is now renamed to API Gateway Data Store.
	API Gateway 10.5 is updated to use Elasticsearch 7.2.0 only as its data store.
Access Profiles	Access profiles are now changed to Teams

Release 10.4

Added Item	Description
Import and Export Enhancements	Import and export support that was limited to some assets is now enhanced to include all assets and configurations so that users can easily move the configurations across instances.
Staging and Promotion Enhancements	Staging and promotion support that was limited to some assets is now enhanced to include all assets and configurations so that users can easily move the configurations across instances. Aliases can be configured with stage details.
Support Certificates in Custom Headers	Application identification is enhanced to get certificates sent through Custom HTTP header in order to identify the application. Custom header can be configured as part of extended settings of Administration.
Support API Composition in API Mashups	API providers can configure to invoke multiple APIs as part of mashup step and aggregate the response that is passed to the next step. Similarly responses of different steps can be aggregated and sent as single output to the client.

Added Item	Description
Microgateway Management in API Gateway	API Gateway displays list of live Microgateways registered to it and are now able to retrieve details about list of assets, and configurations of each Microgateway.

Changed Item	Description
Application Identification	In case of Application identification failure, error message is changed from Unable to identify the application for the request to Unauthorized application request.

Release 10.3

Added Item	Description
Open API Support	Users can create an API by importing an open API document file or URL in API Gateway. OpenAPI Specification (formerly Swagger Specification) is an API description format for REST APIs.
Support for API Mashups	Individual microservices and APIs can be composed into one mashed up API. API Gateway handles a request by invoking multiple microservices and aggregating the results and provide final response.
Support Async APIs	APIs which take longer than usual invocation time, may end up with Read Time out. API Gateway could enforce policies to use the callback URL defined for the APIs.
Support AMQP protocol	Support AMQP as an inbound and outbound endpoint for API Gateway APIs of type SOAP and REST. AMQP is open standard for passing messages between applications and provides standard messaging protocol across platforms.
API hot deploy	API updates can be done without deactivating or affecting the ongoing requests. Each request finishes without being affected by updates to the API and policy definition.
Support runtime service registries	API Gateway APIs can be published to service registries and clients can get the endpoints from service registry. APIs routing endpoint can be configured with service registry to discover endpoint from registry during outbound.

Added Item	Description
Log aggregation	API Gateway aggregates different log files used for logging API Gateway usage and provides a comprehensive log file. Logs can be also viewed in the dashboard with filtering capabilities.
Security enhancements	Security configuration is unified for OAuth, OpenID and JWT configuration, and is simplified. Support for multiple active Authorization servers simultaneously is included. Added capability to register clients dynamically in third-party Authorization servers. Support for third-party clients introspection. PKCE client application support for third-party Authorization servers. Mapping of OAuth scopes with API scopes.

Removed Item	Replacement, if any
Inbound Authentication – Transport policy was removed from API Gateway10.3	This functionality was added into the Identify and Authorize Application policy.

Release 10.2

Added Item	Description
API Tagging	APIs or its resources and operations can be tagged. You can use the tags for searching artifacts in API Gateway and publish the tags along with the API to API Portal.
	API creation using Swagger can acquire the tags from the swagger file and also API export should include the assigned tags.
Bulk Publish, Unpublish and Delete	You can publish, unpublish or delete more than one API at a time to API Portal.
File attachments support for API	APIs can be attached with supporting files as attachments and the attached files are available in API Portal after publishing to the Portal.

Added Item	Description
JWKS endpoint for JSON Web Tokens	As an ID provider, API Gateway provides the JWKS endpoint that helps the relying parties to fetch the certificates that can be used for validation of the JSON Web tokens.
HTTP Client for Elastic Search	Relaxes the hard limitation of using the Elastic search shipped along with API Gateway product; you can use other elastic search instance configured with API Gateway
Application suspension	You can now suspend applications to deactivate the runtime access to the applications in API Gateway and the same application can be activated again.
CORS Support in API gateway	API Gateway can process cross origin requests sent by clients as inbound policy and also as transparent mode of native service processing cross origin requests.
Specification for Invoke IS Service	You can now define IS Service to get and set headers, status code, body, and other MessageContext variables using the specification in the service and do not have to write code to extract the variables.
Enhance Transaction events	Transaction events are enhanced to log headers and query parameters of request and response along with the payload.
Caching enhancements	You can manage different caches of API Gateway to auto scale or allocate static percentage of data to be held in cache.
Data masking	API Gateway's data masking policy can be configured to mask or filter specific data in request and response messages and also mask the data in transaction events.
JSON Schema and JSON Path Support	JSON payload can be evaluated for schema validation and JSON path can be used in policies like content-based routing, error processing, and identify application.
User profile management	You can now configure your preferences like name, email passwords, and display language.

Added Item	Description
Audit logging support	Audit logging would capture user activities in API Gateway for API, application, approvals, and user management. Audit logs would capture who has done the action and when. These logs help in securing the system.
API Monetization	Plans and packages can be managed by quotas, usage, and rate limits with soft and hard limits. Consumers can subscribe to plans and monitor usage and re-subscribe as required.

Release 10.1

Added Item	Description
Migration from Mediator to API Gateway	APIs and associated data can be published from CentraSite to API Gateway 10.1 version.
	This allows users to publish Virtual Services of SOAP and REST with applied policies, consumer applications, runtime alias to API Gateway, which play the role of policy enforcement point and replace Mediator.
Migration from Enterprise Gateway to API Gateway	Enterprise Gateway configurations and Rules can be migrated to API Gateway, which replace and play the role of Enterprise Gateway.
Staging and Promotion support	You can now promote assets from one stage to another. API Gateway uses webMethods Deployer for promoting assets across stages. Promoting an asset involves calculating its dependencies and promoting them unless explicitly specified by the user. Stage-specific configurations and alias values can be modified to respective values.
	API Gateway assets can be managed with version control system and perform scheduled or automatic promotion to stages as configured.
Support for SOAP over JMS	Support JMS protocol of Inbound and Outbound for SOAP. Allow JMS-HHTP bridging between Inbound and Outbound.
Backup and Restore	Backup API Gateway assets and configuration using command line and you can restore the backed up data.

Added Item	Description
Transaction based licensing	License model based on transactions and appropriate alerts can be implemented
Approval model for applications	Approval model can be implemented for creating or updating applications, associating applications with APIs, and subscribing to packages.
API Mocking	Mocking mode allows users to make mock calls to APIs. User can specify API response for each resource or operation and can set status codes for responses. API responses can be configured on conditional basis too.
Support 3rd party OAuth providers	Users can use 3rd party Authorization Servers for authenticating API invocations using OAuth2 Third party OAuth2 providers like OKTA and Ping Federate can be used for OAuth2 authentication.
Support JSON Web Tokens	API Gateway can authenticate clients using JSON Web Tokens supplied during invocations.
Open ID Support	API Gateway can authenticate clients using Open ID Tokens supplied during invocations.
HTTP Header Validation	Providers can mandate consumers to send HTTP headers and values defined in policy for API Invocations.

Release 10.0

Added Item	Description
API Versioning	New version for an API can be created. Different versions of an API can be viewed and invoked
SOAP to REST transformation	API Provider can enable some of the operations of SOAP service as REST endpoints. These operations can be invoked with different paths and the operation path can contain Path parameters that can be saved as templates and can be hierarchical. The operation can be invoked in a method other than POST

Added Item	Description
API export and import	APIs in API Gateway can be exported and imported into a different API Gateway. This implies that the export archive for an API includes all the information to establish an API in the importing API Gateway.
Support Service Result Cache	Service result of the first invocation is cached when the criteria defined in the policy is met. Subsequent requests are from cache and do not require to go to native service for every similar invocation.
Schema Validation Support	Validates the incoming requests and responses against a schema referenced in the WSDL for SOAP APIs. For REST API, user should be able to validate incoming requests and responses against the specified schema.
API usage reports and dashboards	Package-level and API-specific usage and utilization reports. API Gateway provides number widgets for package invocations and API invocations.
Archive purge and restore events data	Administrators can archive and purge events data to a configured file location. The archived data is restored from the created archives.
Resources or Operation level policies	Policies can be applied to one or more resources or operations and must be applied on an API always. Scope can be created with a collection of resources, methods or operations of an API and policies can be applied to the scope to apply to the specific operation or resources.
Global policies and policy templates	Global Policy is a common policy that can be associated to multiple APIs based upon the criteria defined for the policy. Policy Template is a base template defined, which can be imported in multiple APIs.
SAML Authentication	APIs can be applied with SAML authentication policies at Inbound and Outbound. Bearer and Holder of Key SAML subject confirmation are supported for SAML 1.0 and 2.0 versions.

Added Item	Description
Kerberos Authentication	Kerberos authentication is supported at message and transport level for SOAP APIs and at transport level for REST APIs. APIs can be applied with Kerberos authentication policies at Inbound and Outbound.
XML Threat Protection Support	API Gateway application should be resilient to attacks through XML payload. XML payloads sent through external port go through the XML threat protection filter when the rule is defined and enabled.
JSON Threat Protection Support	API Gateway application should be resilient to attacks through JSON payload. JSON payloads sent through external port go through the JSON threat protection filter when the rule is defined and enabled.

Release 9.12

Added Item	Description
API CRUD	Both REST and SOAP APIs can be imported. Swagger and RAML are supported formats for REST and WSDL for SOAP. REST APIs can be created from scratch as well.
Policies and Aliases CRUD	Both threat protection and API-specific policies based in selected edition. For more information, see documentation for supported policies. Create and manage aliases that improve the reuse and maintenance.
Consumer Applications CRUD	Manage consumer applications and associations with APIs.
Packages and Plans	Organizations can group APIs and define enforcements on the same as a single unit, which can be subscribed by developers.
API Portal Integration	APIs can be published to API Portal from API Gateway for the developers reach.
Analytics	API Gateway provides dashboards for greater insights on various topics like Summary, Trends, Consumer applications, and Threat protection.

9.0   Copyright Information

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10.0 Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the TECHcommunity website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

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webMethods API Portal 10.7 Readme

October 2020

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1.0 Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

- NA

2.0 Known Issues

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- YAP-5045

    Restoring backups from older API Portal versions in API Portal 10.2 fails.

    When a backup taken from API Portal version 10.0 or earlier is restored in API Portal 10.2, the restore functionality through UI fails with the following error message: "Invalid backup file. Please upload valid backup file to restore." However, the restore functionality through the ACC console command line utility works as expected.

    The workaround to restore data through UI is to clear the "API Portal analytics" checkbox in the Restore UI and then perform the restore operation.

3.0 Usage Notes

This section provides any additional information you need to work with the current release of this product.

- webMethods API Portal 10.7 can either import APIs directly or have API published by CentraSite and API Gateway.
  In case APIs are published from CentraSite, webMethods API Portal 10.7 requires CentraSite 9.10 or higher.
  In case APIs are published from API Gateway, webMethods API Portal 10.7 requires API Gateway 9.12 or higher.

4.0　Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Release 10.5

- YAP_10.5_Fix1
- YAP_10.5_Fxi2
- YAP_10.5_Fix3
- YAP_10.5_Fix4
- YAP_10.5_Fix5
- YAP_10.5_Fix6
- YAP_10.5_Fix7
- YAP_10.5_Fix8
- YAP_10.5_Fix9
- YAP_10.5_Fix10
- YAP_10.5_Fix11

Release 10.4

- NIL

Release 10.3

- YAP_10.3_Fix10
- YAP_10.3_Fix11
- YAP_10.3_Fix12
- YAP_10.3_Fix13
- YAP_10.3_Fix14
- YAP_10.3_Fix15

- YAP_10.3_Fix16

- YAP_10.3_Fix17

Release 10.1

- NIL

Release 9.12

- NIL

5.0   Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Release 10.0

- YAP-3398
  Subscription tokens are not deleted while unpublishing packages from API Portal.
  When a package is unpublished from API Portal, the associated subscription tokens are not deleted.
  This issue is now resolved.

Release 9.12

- YAP-1389
  Scheduled reports - back navigation
  When editing or creating a scheduled report, on clicking Back the modifications are lost.
  This issue is now resolved.

- YAP-2280
  API Runtime metrics published from Mediator to API Portal creates Active sessions in UMC.
  For every runtime metric published from Mediator to API Portal, an active session is created which is valid for 1 hour. If more data is published from Mediator to API Portal multiple active sessions will be created and this results in the unavailability of UMC.
  This issue is now resolved.

6.0 Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.3

The following artifacts have been introduced for API Portal 10.3:

- webMethods API Portal WebHelp: This is a single HTML output that contains all the PDFs available for API Portal on Empower.

Release 10.2

The online help content is now also available in PDF format on Empower.

- API Portal Administrator's Guide (includes the online help content)

- API Portal Provider's Guide

- API Portal Consumer's Guide

Release 10.1

- For information on OAuth2 support in API Portal, see *webMethods API Portal Administrator's Guide*.

- For more information on multi-factor authentication, see *webMethods API Portal Administrator's Guide and API Portal Online Help*.

Release 10.0

- For information on SAML 2.0 configuration for Consumer user in API Portal, see *webMethods API Portal Administrator's Guide*.

- For more information on API Provider Administration, see *API Portal Online Help*.

- For information on API SDK generation in API Portal, see *API Portal Online Help*.

- For information on custom navigation links, see *API Portal Customization Guide*.

- Removed the Manage Reports section from *webMethods API Portal Administrator's Guide* and *API Portal Online Help*.

Release 9.12

- For information on API Portal Extension points in API Portal, see *webMethods API Portal*

Administrator's Guide.

Release 9.10

▪ For information on configuring the High Availability functionality in API Portal, see *webMethods API Portal Administrator's Guide*.

7.0   Terminology Changes

A release is listed in this section only if changes occurred in that release.

8.0   Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed.

Release 10. 7

Added Item	Description
Entry of Clous password for enhanced security	When the ACC console is started, users must enter the password of **Clous** user in the command prompt. The default password is *g3h31m*.
Inclusion of API Portal health endpoint & support for Prometheus configuration	In this release, API Portal provides <host>/abs/portal/health endpoint to perform a health check on the **apiportal** runnable. Also, users have an option to configure Prometheus for metrics data.

Release 10. 5

Added Item	Description
Configuration of sub-domain and e-mails for Tenants	Users can configure their own sub-domain URL to identify their tenants instead of using the default application URL. In addition, they can configure e-mail for tenants.

Deprecated Item	Replacement, if any
Documentation Storage	Document storage service embedded in the application is deprecated and will be removed in future releases. There is no replacement for this.

Deprecated Item	Replacement, if any
Collaboration	Support for collaborating with other users is deprecated and will be removed in future releases. There is no replacement for this.
Customization and Themes	API Portal customization and themes are deprecated and will be removed in future releases. The backward compatibility of the customization concept will also be deprecated. The new concept for customization and theme will be included in future releases.

Release 10. 4

Added Item	Description
Visibility of communities in API Gallery	API gallery page is enhanced to support grouping of APIs based on the community they are published. "Communities" option is added to the dropdown, to group APIs based on their community.
Command central support for API Portal Phase II	Start and stop of API Portal using Command central is supported.
Secure access to Elasticsearch	Elasticsearch runnable bundled as part of API Portal product is secured by default. Credentials are required to access the Elasticsearch data outside API Portal.
Application sharing to user groups	API Portal supports users to share their applications to a specific list of users or teams. Users can create teams by adding the required users.
API tryout enhancement	The user interface of the Try API page is enhanced.
Onboarding enhancements	User onboarding to API Portal with approval flow is enhanced to include multi-level approval process. Administrators can also configure the default community for the user to onboard. As part of this feature, external payment gateway can be integrated in the registration form to capture credit card information of the user during the sign-up.
API package publishing to communities	API packages published from API Gateway can be published to a specific community in API Portal. Such packages will be visible only to the users of that community in API Portal.

Added Item	Description
Staging support in API Portal	API Portal supports publishing of APIs from different stages of API Gateway instances. This feature currently supports only the publishing of APIs from different stages to API Portal.

Release 10. 3

Added Item	Description
OData support in API Portal	API Portal supports publishing of OData APIs from API Gateway. API metadata such as entity sets, singletons, entity types, complex types, functions and actions can be viewed in API details page. OData APIs can be tested in the Try API page.
Open API support in API Portal	API Portal supports publishing of Open APIs from API Gateway and direct import of Open APIs. Open API specific metadata such as components can be viewed in the API details page. Rendering of request and response sections have been enhanced for better readability.
Allow community admins to configure multiple LDAPs and use it to add/sync users	Multiple LDAP servers can be configured in API Portal. LDAP users and user groups can be synchronized with UMC during user login.
Allow community specific LDAP configuration within private communities	LDAP user groups present in the UMC can be associated with a community.
Default customized Themes for API Portal	API Portal provides a pre-shipped theme called "dracula" and a light theme based on the dracula theme. New themes based on dracula theme can be developed using API Portal's customization UI.
Command Central support in API Portal	Installation and uninstallation of API Portal using Command Central is supported.

Release 10. 2

Added Item	Description
API Portal Testing Enhancements	API Portal Try API page has been enhanced for better usability. Accessibility of resources and methods has been improved. The request and response sections are now formatted based on the content types. JSON Web Token (JWT) support has been added. This enables an API consumer to test APIs protected by JWT.

Added Item	Description
API details page should include details of API scopes	If methods of an API are protected by API Key, OAuth2 or JWT, the same is indicated by a lock symbol in API details and Try API page. In API details page, an API scopes section containing the details of scopes associated with the API has been added.
Viewing REST enabled SOAP APIs in API Portal	SOAP APIs that have REST transformation enabled in API Gateway can be viewed as hybrid APIs in API Portal. A user can switch between REST and SOAP views in API details and Try API page.
Reports (including scheduling) from API Portal data	An API consumer can schedule reports that provide periodic alerts on the usage of applications, which he owns. The application usage metrics are collected and mailed to the configured email address. The report execution frequency can be configured as Daily, Weekly or Monthly in the user profile page.
API tagging in API Portal	Tags can be added at the API level using the edit functionality in API details page. The added tags can be viewed below the API name in API details page. If an API with tags at resource and method level is published to API Portal, the tags are rendered in the respective sections.
API Portal customization enhancements	Customization of font and color, layout, and locale properties is possible through the UI. Layout customization is supported only for API gallery and App gallery pages. New properties for different locales can be added.

Release 10. 1

Added Item	Description
API editing	Once an API is imported or published to API Portal, the API provider can modify the API metadata in the details page. Basic editing enables the provider to edit API name and description, resource, method and parameter description, and additional attributes. Advanced editing enables the provider to modify the icon, supporting documents, and categories of an API.

Added Item	Description
Backup and restore analytics data	In addition to API metadata and collaboration data, an API administrator can now backup and restore API Portal analytics data. This includes data related to page views, user registrations, API lifecycle events, access token lifecycle events, provider lifecycle events, and run-time analytics data of APIs.
OAuth support enhancements	OAuth support in API Portal has been extended to include Authorization code and implicit grant types.
Multifactor authentication support	API Portal provides multi-factor authentication (MFA) that requires the use of a one-time password to verify a user's identity for a login. API administrator can enable this feature in the user management console (UMC).
Advanced search in API Portal	Search capabilities in API Portal have been enhanced to enable a user to search APIs based on resources, methods, parameters, endpoints and policies. Packages and applications are also searchable by name and description.

Release 10. 0

Added Item	Description
API SDK Generation	The client code for an API in a specified language can be downloaded as a zip file. The zip file contains necessary code package that can be used for testing and communicating with the API. This is available for REST APIs.
API Portal Versioning	API Portal supports versioned APIs that are published from API Gateway and CentraSite. APIs that have been directly imported into API Portal can also be versioned.
Consumer analytics dashboards	Consumer dashboard captures the KPIs specific to the users who access API Portal. It is used to track the total API requests over a period of time, requests over time per API, and API request log.
	Dashboards are now displayed based on the role of the user.
API Portal provider administration	API Portal offers a user interface to easily manage API providers. An API Provider has the privileges to enable an API Portal Administrator or Provider to manage APIs and configure notification types that are used for API-related events.

Added Item	Description
Custom navigation links	API Portal enables adding custom navigation links in the header section. The links can be customized to render the required display text and navigate to the configured pages.

Deleted Item	Description
Managing Reports in API Portal	Managing reports is no longer possible in API Portal.

Release 9.12

Added Item	Description
API Portal Extension Points for Standalone Deployments	API Portal is configurable to work as a standalone component and can be integrated into any third-party API Management systems, which may not necessarily have Mediator or CentraSite present. You can configure API Portal to work with different key management systems for access token retrieval functions for the APIs deployed in the third-party environments.
API Plans and Subscriptions	Plans are offered as tiered offerings with varying availability guarantees, SLAs or cost structures associated to it. An API Package can be associated with multiple plans at a time. This helps the API Providers in providing tiered access to their APIs to allow for different service levels and pricing plans.
HTTP PATCH support	The HTTP PATCH support is available in API Portal 9.12 onwards. You can use this method in API testing.
Dashboards Enhancement	API Portal dashboards have been enhanced to bring better visualizations and capabilities.
	A new dashboard called API trends dashboard has been added. The API Trends Dashboard is used to learn more about the API invocation trend as per response time, success and failure rate.

Release 9.10

Added Item	Description
API Runtime Events Dashboard	API Runtime Events Dashboard is used to know more about the API's invocations and its performance during runtime. You can filter the data as required, configure the dashboard to display the required data, and view the required data by highlighting the KPI.
Adoption of ECP enhancements for collaboration in API Portal	Authenticated users can: ▪ view the list of notifications for the followed items ▪ mark a notification as read or unread delete a notification ▪ configure the notification destination settings

9.0   Copyright Information

10.0   Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the TECHcommunity website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

YAP-RM-107-20201015

webMethods Application Platform 10.11 Readme

October 2021

webMethods Application Platform is deprecated. To build Java services for your new development projects, use webMethods Service Development instead. For more information, see *webMethods Service Development Help*.

This file contains important information you must read before using webMethods Application Platform 10.11. You can find system requirements, user documentation, and installation and upgrade instructions on the [Documentation website](#) or the [Tech Community website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0   Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0   Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

3.0   Usage Notes

This section provides any additional information you need to work with the current release of this product.

- Application Platform Eclipse tooling supports the Designer Eclipse upgrade to Eclipse 4.15.

4.0   Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Release 10.4

- PLS_10.4_IS_Fix1

Release 10.3

- PLS_10.3_IS_Fix3

- PLS_10.3_Core_Fix1

Release 10.1

- PLS_10.1_IS_Fix2

- PLS_10.1_IS_Fix1

- PLS_10.1_Core_Fix1

- PLS_10.1_Core_Fix2

Release 10.0

- PLS_10.0_IS_Fix1

- PLS_10.0_SPM_Fix1

Release 9.12

- PLS_9.12_IS_Fix2

- PLD_9.12_Fix1

- PLD_9.12_Core_Fix1

- PLD_9.12_IS_Fix1

Release 9.10

- PLD_9.10_Core_Fix2

- PLD_9.10_IS_Fix3

- PLS_9.10_Core_Fix3

- PLS_9.10_IS_Fix4

- PLS_9.10_SPM_Fix1

5.0   Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Release 10.7

▪ PLS-411
Spring SDK support was upgraded to version 5.2.4.1.

Release 10.5

▪ PLS-356
Concurrent access to Integration Server services by using the HTML <frameset> tag results in a "500 Internal Server Error" response code in Application Platform applications.

The issue is resolved. The Application Platform Tomcat webMethods custom tag library is now thread-safe. You can use the new session concurrency filter to serialize Integration Server service requests executed by a WAR application. The filter serializes concurrent requests for a session ID. No changes are required in your existing JSP pages.

▪ PLS-343
Application Platform Tomcat supports a new custom shared classloader. Integration Server ServerClassLoader classes can be resolved from WAR projects.

Release 10.4

▪ PLS-289
When you deploy service projects using the Asset Build Environment, projects that contain services annotated with @RolesAllowed or @AclAllowed are not registered properly.
The issue is resolved.

▪ PLS-328
Requiring or requesting client-certificate SSL authorization in Application Platform WAR projects fails with an HTTP 401 response code.
The issue is resolved. You can now configure your projects to use client-certificate SSL authorization.

▪ PLD-343
Designer fails to load the text editor for the OSGi manifest file and returns an error message in the Console view.
This issue is resolved.

▪ PLD-342
Unpublishing Application Platform projects from My webMethods Server fails.

In Designer, attempting to unpublish an Application Platform project from My webMethods Server fails with a NullPointerException error.
This issue is resolved.

Release 10.3

▪ PLS-252

In Designer, attempts to publish App Platform projects might fail with an error in the Dynamic Bundle Deployer service under certain conditions under rare conditions.
The issue is resolved.

▪ PLS-241

The Application Platform migration utility command line help returns arguments that are not used.
The issue is resolved. The help command now returns only the relevant arguments with an updated description.

Release 10.2

▪ PLS-219

When installing Application Platform on AIX, an incorrect key is used for the encryption algorithm.
The issue is resolved.

▪ PLS-197

The Integration Server profile does not work properly after uninstalling Application Platform.
The issue is resolved.

▪ PLS-179

Application Platform does not support JDK class types for service values.
The issue is resolved.

▪ PLS-209

Application Platform cannot publish projects after upgrading to Eclipse Equinox version 4.7.1a.
The issue is resolved.

▪ PLS-210

Application Platform project bundles are not fully deployed to the new runtime after upgrading to Eclipse Equinox version 4.7.1a.
The issue is resolved.

Release 10.1

▪ PLS-159

Application Platform POJO wrappers do not support Integration Server IData object instances.
The issue is resolved.

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.5

- A new section called "Session Concurrency Filter" is added to the *webMethods Application Platform Webhelp.*

- The following sections related to My webMethods Server are removed from the *webMethods Application Platform Webhelp*:

    - "Creating a My webMethods Server Definition"

    - "Configuring My webMethods Server for Application Platform Projects"

    - "My webMethods Server Lifecycle Actions"

    - "Calling Application Platform Services from My webMethods Server Services"

- The following sections related to Composite Application Framework (CAF) are removed from the *webMethods Application Platform Webhelp*:

    - "Using Application Platform Projects to Extend CAF Projects"

    - "About Using CAF Projects with Application Platform"

    - "Configuring CAF Projects for Asset Build Environment"

Release 10.4

- The following sections are added in the *webMethods Application Platform Webhelp* to describe how to use the new WmAppPlat package:

"About Developing Web Applications for Integration Server"

"Invoking IS Services in Web Applications"

"Differences Between WmTomcat and WmAppPlat"

   The "Web Application Layer Security" section in the *webMethods Application Platform Webhelp* is divided into the following new sections:

"Valve-Based Security"

"Filter-Based Security"

Release 9.10

- A new webhelp, named *webMethods Application Platform Webhelp*, is available on the Software AG Documentation website. The *webMethods Application Platform Webhelp* includes information about how to configure Application Platform, how to develop projects in Application Platform, how to deploy your Application Platform projects, how to diagnose and troubleshoot Application Platform issues, and how to use the Application Platform API.

- The *webMethods Application Platform Help* in Designer now features native content. It no longer redirects the user to the Application Platform guides on the Documentation website.

- The *webMethods Application Platform Tutorial* is no longer available on the Documentation website. The *webMethods Application Platform Tutorial*, together with code samples, can be downloaded from the Software AG Tech Community website.

7.0 Terminology Changes

A release is listed in this section only if changes occurred in that release.

8.0 Added, Removed, Deprecated, or Changed Items

This section lists features, functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 10.5

Added Item	Description
Session concurrency filter	A java servlet filter that serializes requests from a WAR project to a server over one session.
Custom Tomcat ClassLoader	A custom Tomcat classloader that enables Integration Server ServerClassLoader classes to be resolved from WAR projects.

Removed Item	Description
Support for My webMethods Server	Application Platform no longer supports deploying projects to My webMethods Server.
Support for Composite Application Framework (CAF) projects	Application Platform no longer supports developing CAF projects.

Release 10.4

Added Item	Description
A new "App Platform Web Archive Preset" project facet is available for Dynamic Web project development	The "App Platform Web Archive Preset" project facet is available when creating and editing dynamic web projects. This project facet enables you to deploy WAR projects to Integration Server.
Support for Application Platform KPI monitoring using the Command Central CLI	Application Platform reports aggregated data for a set of KPIs for all deployed WAR projects. You can view the KPI data through the Command Central CLI.
Designer displays JMX attribute data for deployed WAR projects	The Designer Properties view displays JMX attribute details for dynamic web projects. The displayed data is received from the JMX-managed beans on Apache Tomcat.

Release 10.1

Changed Item	Description
Application Platform support for JDK class types for service values	The flow service projections that Application Platform generates from its OSGi services now support pipeline data that contain Integration Server Object data types, for objects whose class type is part of the JDK, for example java.io.InputStream.

Release 10.0

Changed Item	Description
Application Platform API Libraries Classpath Container in Designer	The classpath container functionality is enhanced to allow you to select specific libraries from the runtime to add as classpath dependencies to Application Platform projects. When you deploy the project, the selected libraries are resolved from the runtime. For more information, see the Application Platform Users Guide.
Integration Server Service Wizard in Designer	The Integration Server Service Wizard dialog is enhanced to allow you to select Integration Server Document Types and Specifications when generating Java wrappers to use with Application Platform projects. For more information, see the Application Platform Users Guide.

Changed Item	Description
Application Platform product icons in Designer	The Application Platform product icons in the Application Platform perspective, views, Welcome page, and About page in Designer are updated to reflect changes in the Software AG corporate branding.

9.0   Copyright Information

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10.0 Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the Tech Community website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

PLD-RM-1011-20211015

webMethods ApplinX 10.11 Readme

October 2021

This file contains important information you must read before using webMethods ApplinX 10.11. You can find system requirements, user documentation, and installation and upgrade instructions on the [Documentation website](#) or the [Tech Community website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0   Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0   Known Issues

- APX-12224
  After creating a web application (JSP): When changing the Framework log file location from the web configuration GUI, the log file is not created at the new location. A warning appears on the ApplinX server console.

- APX-12032
  When you type English characters in an RTL field, the auto-skip does not work.

- APX-11703
  In a Linux environment, when you try to import the GXAR file to the ApplinX server by copying and restarting the server, the import process fails.

3.0   Usage Notes

This section provides any additional information you need to work with the current release of this product.

Third-party Products

We do our best to avoid shipping third-party products with known security vulnerabilities. In spite of these efforts, some of the third-party products shipped with this version of ApplinX may contain security vulnerabilities that have yet to be announced or discovered. As these third-party products are not updated when you apply a fix between releases, you need to update the third-party products yourself as appropriate.

Frameworks API

- In order to work with the .NET Framework on 64-bit machines, enable 32-bit applications in the application pool.

- Keyboard mapping node in the Framework configuration editor has been moved to the Application properties in the ApplinX Designer. Configuring this via the framework is still possible, by directly editing the XML configuration file (gx_keyboardMappings.xml).

- Serialization of the ApplinX API table class (GXTable) to XML is no longer supported (typically used when exporting tables to Excel). A new solution can be found in the Composite demo Web Application.

- In order to work with the .NET Framework on IIS 6 and above, configure the application pool.

- ApplinX Java API/JSP Framework must be run under Java 1.8 or higher.

ApplinX Designer

- ApplinX HTTP console is no longer available for testing web services. Web Services can be tested in any development environment which supports Web Services.

- Screen group generation from .NET is not available.

Batch Files

- Using a batch file to reload an application is no longer required and this functionality is supported by configuring the archive interval parameter in the ApplinX Server Properties.

4.0   Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

5.0   Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.7

- Natural Screen Tester
  The Software AG product Natural Screen Tester, including relevant documentation, has been incorporated in ApplinX.

Release 10.5

- High Availability
  New section on setting up your Environment for High Availability with Container Orchestration has been added.

7.0   Terminology Changes

A release is listed in this section only if changes occurred in that release.

8.0   Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 10.11

Added Item	Description
Enhanced Password Handling	For greater security, default password handling has been enhanced for Software AG products that are installed with the SAG Installer. On the Administrator Password panel, enter a default product administrator password for the products you are installing, and choose whether to require the password to be changed on first product login.
License Handling	• Expiration. For ApplinX licenses of type subscription or test, a daily message in server log will appear if there are less than 60 days to expiration date. In earlier ApplinX versions, this value was 8 days. • Enhanced support. Software AG Support is now able to offer immediate help to customers if they suffer from license key issues, until the problem has been identified
REST API Enhancements	You can now generate a page in Angular, and also execute a procedure (stateless or stateful) using the ApplinX REST APIs.
Security enhancement	Improvements to the existing hotfix script mean you can now update or replace a JAR file, making it easier to address security vulnerabilites.
Japanese Composition Mode	Japanese composition mode is now supported.
Supported Microsoft Visual Studio Versions	ApplinX now supports Visual Studio 2019 in addition to 2017. Visual Studio 2015 is no longer supported.
Eclipse Support in Designer	ApplinX now supports Eclipse version 4.19 provided by the webMethods suite.
Azul Support	ApplinX runtime now supports Azul Java 11.

Removed Item	Description
Microsoft Visual Studio 2015	Visual Studio 2015 is no longer supported. Use Visual Studio 2017 or Visual Studio 2019 instead.

Deprecated Item	Description

Added Item	Description
BS2000 Protocol	The BS2000 protocol is deprecated and will not be supported in future ApplinX versions.

Release 10.7

Added Item	Description
Support of Natural-IO Protocol	ApplinX support of the Natural-IO protocol enables you to create an SSL connection to a Natural UNIX host without the need of a third-party component.
New Host Key Pattern	The new pattern, `TWO LINES`, is similar to the existing Natural patterns logic but is more customizable and allows you to change or add host keys and captions.
Automatic Load of ApplinX Server deployed as WAR	When you deploy an ApplinX Server as a Java Web Archive (WAR) in the application server, the web services defined in the application are now loaded automatically. (In earlier versions of ApplinX these services were not available until the application was first accessed.)
Web Services Stack	The Web Services Stack is now always enabled. The option to disable WS-Stack is no longer provided. ▪ If you are using a SOA-based license, both the procedure group and the administrative web services are deployed. ▪ If you are using a web-based license, only the administrative web services are deployed.
Natural Screen Tester	The Software AG product Natural Screen Tester has now been incorporated in ApplinX.
Administration using batch commands	You can now perform various administration tasks from a command line using the tool `gxadminconsole.sh` (UNIX) or `gxadminconsole.bat` (Windows) in the ApplinX utilities folder.
ApplinX REST API	You can now create and disconnect a session, and also get and update a screen using the ApplinX REST API.
Printing with BaseObject API	New classes in the ApplinX `BaseObject` API provides an additional means of activating a mainframe or AS/400 printer session.

Added Item	Description
Deprecation of Solaris v.11.3	The original provider of the operating system Solaris (Oracle) strongly recommends to upgrade from version 11.3 to 11.4 as of now. In order to provide for enough time for Software AG customers to react to the upgrade policy of Oracle for Solaris versions after v.11.3, production environments based on Software AG products of this October 2020 release will in general continue to work without the immediate need to upgrade. However, Software AG customer support will only handle issues for Software AG products that can be reproduced in a Solaris v.11.4 environment. All newer versions of Software AG products AFTER the October 2020 release will no longer work with Solaris v.11.3.
	Software AG therefore strongly recommends to address necessary migration steps timely.
ActiveX support dropped	ActiveX technology is no longer supported by ApplinX. Features that relied on this technology have been reworked if necessary.

Release 10.5

Added Item	Description
ApplinX Web Emulator as Part of the ApplinX Docker Image	The ApplinX docker image now contains an ApplinX web emulation. Here you can configure host connectivity and various application settings within the browser. In previous versions this was only possible using ApplinX Designer.
Better Correlation between the ApplinX session and the Natural Process (Natural UNIX)	It is now easier to track the ApplinX session ID for a NATAPX process within the Natural environment, and the Natural user used by an ApplinX session within the ApplinX Administrator.
Healthcheck in a Natural UNIX Docker environment	A utility is provided to check that all components (ApplinX server, ApplinX Natural daemon, Natural, Adabas) are functioning in a Docker environment.
Customized Startup of Natural UNIX Applications	When you start a Natural application in ApplinX you can now specify additional information using the CUSTOM argument.

Added Item	Description
Security Support under Natural UNIX	Three security models are supported in a Natural for UNIX environment: ▪ System ▪ PAM. You can now configure PAM authentication (for LDAP/Kerberos integration) within the ApplinX Natural daemon. ▪ Disabled. Authentication will not be performed by apxsrvd
Copy Session ID	The ApplinX session ID is visible in the Administrator session view. You can copy this ID to your clipboard with CTRL+C, the context menu or by pressing the Copy icon.
New platform support	▪ Visual Studio 2017 ▪ Designer plug-in environment based on Eclipse 4.11 ▪ Log4J version 2.x

Release 10.4

Added Item	Description
Font size enhancement	You can now determine the font size to be used in the web application for each screen resolution. With class GXBasicContext.java (or GXBasicWebForm.cs in .NET application) you can add a method called getColumnMappingPerResoultion where you can create a map for font size per resolution and number of columns of the screen.

Release 10.3

Added Item	Description
Docker Support	You can build an ApplinX Docker image and run the Docker container using scripts provided with ApplinX.
Passing Natural parameters dynamically	You can specify different parameters at runtime (for example NATPARM) depending on the business rule you choose.

Added Item	Description
License Metering using Command Central	ApplinX now supports the license metering functionality provided by Command Central. License metering depends on license manifest files. Each license manifest file issued by Software AG contains all contracts for one location of your organization. If you received license manifest files from Software AG, you can generate or view a report of the current state of your landscape.

Release 10.2

Added Item	Description
Sort Function for List of Field Mappings	You can sort the contents of a List of Field Mappings table by field name or by any other column. Click the header of the column by which you want to sort.
Single Sign-on under AS/400	ApplinX now supports Single Sign-on using a Kerberos ticket on the platform AS/400. A corresponding start-up response code is given.

Release 10.1

Added Item	Description
Support of Windows Server 2016	ApplinX now supports the operating system Windows Server 2016. This includes support for the following: ▪ IIS 10 ▪ .NET Framework 4.6
Visual Studio version 2015	ApplinX now supports Microsoft Visual Studio version 2015. Older version 2008/2020 are no longer supported.

Removed Item	Description
Visual Studio Version 2008/2010	These Visual Studio versions are no longer supported. ApplinX currently supports versions 2012/2015.

Release 10.0

Added Item	Description
Exclude connection information sets when importing applications	A new option is provided in the Import Entities wizard. This enables better transition from development to test and production environments.
Enhanced Search Options in Software AG Designer	You can now search for the following components of each entity: screens and screen groups; session data and date structure; path and flow procedures.
Visual Studio Version 2012/2015	Support added for these Visual Studio versions. Older versions 2008/2010 are still supported with this version but are deprecated.
Template handling	Template handling when creating an ApplinX Web application has been streamlined.

Removed Item	Description
Templates	Obsolete templates are no longer provided.

Deprecated Item	Description
Visual Studio Version 2008/2010	Support for these Visual Studio versions will be dropped in the next ApplinX version. ApplinX currently supports versions 2012/2015.

9.0 Added, Removed, Deprecated, or Changed Built-In Services

A release is listed in this section only if changes occurred in that release.

10.0 Added, Removed, Deprecated, or Changed Parameters

A release is listed in this section only if changes occurred in that release.

11.0 Added, Removed, Deprecated, or Changed APIs

Release 10.11

Changed Item	Description
ApplinX REST API	You can now generate a page in Angular, and also execute a procedure (stateless or stateful) using the ApplinX REST APIs.

Release 10.7

Added Item	Description
ApplinX REST API	You can now create and disconnect a session, and also get and update a screen using the ApplinX REST API.
Printing with BaseObject API	New classes in the ApplinX BaseObject API provides an additional means of activating a mainframe or AS/400 printer session.

12.0 Copyright Information

13.0 Support

Visit the [Empower website](#) to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the [Tech Community website](#) to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

APX-RM-1011-20211015

webMethods Broker 10.5 Readme

October 2019

This file contains important information you must read before using webMethods Broker 10.5. You can find system requirements, user documentation, and installation and upgrade instructions on the [Documentation website](#) or the [TECHcommunity website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0   Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0   Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

3.0   Usage Notes

This section provides any additional information you need to work with the current release of this product.

▪ webMethods Broker 10.5 C APIs support the following compilers (the minimum required compiler version is mentioned inside parentheses):

System	Compiler
AIX for POWER	XLC/C++ (v10)
SUSE Linux Enterprise Server for x86_64	GCC (4.1.2)
Red Hat Enterprise Linux Server for x86_64	GCC (4.1.2)
Red Hat Enterprise Linux Server for IBM System z	GCC (4.8.5)
CentOS for x86_64	GCC (4.1.2)
Solaris for x86_64/SPARC	Studio (12)
Windows 64 bit	Microsoft Visual Studio 2017

4.0　Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Release 10.5

- BR_9.6_Core_Fix22
- BR_9.6_Core_Fix21
- BR_9.5_SP1_Core_Fix19

Release 9.6

- BR_9.6_Portal_Fix8
- BR_9.6_PlatformManager_Fix4
- BR_9.6_Java_API_Fix13
- BR_9.6_CSharp_API_Fix3
- BR_9.6_Core_Fix20
- BR_9.6_CommandLine_Fix3
- BR_9.6_C_API_Fix3
- BR_9.5_SP1_Portal_Fix6
- BR_9.5_SP1_Java_API_Fix10
- BR_9.5_SP1_CSharp_API_Fix3
- BR_9.5_SP1_Core_Fix18
- BR_9.5_SP1_CommandLine_Fix4
- BR_9.5_SP1_C_API_Fix3
- BR_9.0_SP1_Portal_Fix5
- BR_9.0_SP1_Java_API_Fix6
- BR_9.0_SP1_CSharp_API_Fix1
- BR_9.0_SP1_Core_Fix9

- BR_9.0_SP1_CommandLine_Fix3

- BR_9.0_SP1_C_API_Fix3

- BR_8.2_SP3_Portal_Fix9

- BR_8.2_SP3_JMS_API_Fix9

- BR_8.2_SP3_Java_API_Fix5

- BR_8.2_SP3_Core_Fix16

- BR_8.2_SP3_CommandLine_Fix3

- BR_8.2_SP3_C_API_Fix3

5.0   Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

7.0   Added, Removed, Deprecated, or Changed Items

This section lists product functionality that has been added, removed, deprecated, or changed since the last full release of the product. Deprecated Built-In services and APIs are listed in the relevant sections that follow this one. A release is listed in this section only if changes occurred in that release.

Release 9.6

Added Item	Description
forget-lost-transaction-batch-size	Added a new parameter to the Broker Server's configuration file (awbroker.cfg). Use this parameter to delete the number of heuristically completed transactions in one attempt. The default value is 100.

Added Item	Description
forget-lost-transaction-time-days	Added a new parameter to the Broker Server's configuration file (awbroker.cfg). Use this parameter to specify the age in days when transactions were heuristically completed The default value is 10 days.
forget-lost-transaction-timer-interval-seconds	Added a new parameter to the Broker Server's configuration file (awbroker.cfg). Use this parameter to specify the interval in seconds between two checks The default is 600 seconds (10 minutes).
max-diag-log-file-size	Added a new parameter to the Broker Server's configuration file (awbroker.cfg). Use this parameter to specify the maximum size of the diagnostic log file in bytes. The log file is renamed to diag.log.old once the maximum log file size is reached. Default value is 10485760 (10 MB).
max-log-file-size	Added a new parameter to the Broker Server's configuration file (awbroker.cfg) Use this parameter to specify the maximum size of the basic authentication log file in bytes. The log file is renamed with the suffix .old once the maximum log file size is reached. The old file name is basicauth.log.old unless overridden with a different file name in basicauth.cfg. Default value is 10485760 (10 MB).
max-open-transaction-per-broker	Added a new parameter to the Broker Server's configuration file (awbroker.cfg) Use this parameter to specify the number of open transactions that a Broker can have before Broker rejects creation of any new transaction for any client in Broker. Default is 1000.
max-open-transaction-per-client	Added a new parameter to the Broker Server's configuration file (awbroker.cfg) Use this parameter to specify the number of open transactions that a client can have before Broker rejects creation of any new transaction for the client. Default is 1000.

Added Item	Description
max-server-log-file-size	Added a new parameter to the Broker Server's configuration file (awbroker.cfg) Use this parameter to specify the maximum size of the server log file in bytes. Minimum value of this parameter is 1 MB. The default value is 10 MB.
memory-alert-threshold	Added a new parameter to the Broker Server's configuration file (awbroker.cfg) Use this parameter to specify the threshold value in percentage (%) of available memory, if the threshold is exceeded, all publish requests are denied. The default is 90.
memory-warn-threshold	Added a new parameter to the Broker Server's configuration file (awbroker.cfg) Use this parameter to specify the threshold value in percentage (%) of available memory, if the threshold is exceeded, a warning is logged in the server.log file. The default is 80.
pub-net-address-in-deprecated-format	Added a new parameter to the Broker Server's configuration file (awbroker.cfg) Use this parameter to specify 1 to retrieve the IP address from the pubNetAddr envelope field in the old six-byte format (deprecated format). The default is 0, where the IP address from the pubNetAddr envelope field is retrieved in the string format.
rbroker-recovery-restart-forwarding-enabled	Added a new parameter to the Broker Server's configuration file (awbroker.cfg) Use this parameter to specify 1 to enable the Broker Server to reconnect to the remote Broker in case of partial processing of received events. The default is 0 (disabled).
storage-alert-threshold	Added a new parameter to the Broker Server's configuration file (awbroker.cfg) Use this parameter to specify threshold value in percentage (%) of available storage, if the threshold is exceeded, all publish requests are denied. The default is 90.

Added Item	Description
storage-warn-threshold	Added a new parameter to the Broker Server's configuration file (awbroker.cfg) Use this parameter to specify threshold value in percentage (%) of available storage, if the threshold is exceeded, a warning is logged in the server.log file. The default is 80.

Changed Item	Description
max-send-events-size parameter	The default value of the parameter is changed to 131072 (128 KB).
connection-sndbuf-size	The default value of the parameter is either the system default value or 524288 (512 KB), whichever value is higher. For more information, see *Administering webMethods Broker*
connection-rcvbuf-size	The default value of the parameter is either the system default value or 524288 (512 KB), whichever value is higher. For more information, see *Administering webMethods Broker*.
Send/receive buffer size	The default size for the send/receive buffer on Java and JMS clients are set to 256 KB.

8.0   Added, Removed, Deprecated, or Changed APIs

A release is listed in this section only if changes occurred in that release.

Release 9.6

Added API	Description

Deprecated API	Replacement

9.0   Copyright Information

10.0 Support

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BR-RM-105-20191015

webMethods Business Console 10.11 Readme

October 2021

This file contains important information you must read before using webMethods Business Console 10.11. You can find system requirements, user documentation, and installation and upgrade instructions on the Documentation website or the Tech Community website. At those locations, you can also find suite-related security and globalization information.

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1.0　Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the Empower website.

2.0　Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the Empower website.

3.0　Usage Notes

This section provides any additional information you need to work with the current release of this product.

4.0　Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the Empower website for detailed information about fixes.

Release 10.5

- SBP_10.3_Package_Fix2
- SBP_10.3_Portal_Fix9
- SBP_10.3_Portal_Fix6
- SBP_10.3_Portal_Fix5
- SBP_10.3_Runtime_Fix9
- SBP_10.3_Runtime_Fix6
- SBP_10.1_Portal_Fix10
- SBP_10.1_Runtime_Fix10
- SBP_10.1_Portal_Fix8
- SBP_10.1_Runtime_Fix8

Release 10.4

- SBP_10.1_Portal_Fix7
- SBP_10.1_Runtime_Fix6
- SBP_9.9_Portal_Fix11
- SBP_9.9_Runtime_Fix11

Release 10.3

- SBP_10.2_Portal_Fix1
- SBP_10.2_Runtime_Fix1
- SBP_10.1_Portal_Fix5
- SBP_10.1_Runtime_Fix5
- SBP_9.12_Portal_Fix13
- SBP_9.12_Runtime_Fix13
- SBP_9.9_Portal_Fix9
- SBP_9.9_Runtime_Fix9
- SBP_9.8_Runtime_Fix6
- SBP_9.8_Portal_Fix6

Release 10.2

- SBP_10.1_Portal_Fix3
- SBP_10.1_Runtime_Fix3
- SBP_10.0_Portal_Fix5
- SBP_10.0_Runtime_Fix5
- SBP_9.12_Portal_Fix11
- SBP_9.12_Runtime_Fix11
- SBP_9.10_Runtime_Fix4
- SBP_9.10_Portal_Fix4
- SBP_9.9_Portal_Fix7
- SBP_9.9_Runtime_Fix7

Release 10.1

- SBP_10.0_Portal_Fix4
- SBP_10.0_Runtime_Fix4
- SBP_9.12_Portal_Fix8
- SBP_9.12_Runtime_Fix8
- SBP_9.10_Runtime_Fix4
- SBP_9.10_Portal_Fix4
- SBP_9.9_Portal_Fix7
- SBP_9.9_Runtime_Fix7

Release 10.0

- SBP_9.12_Portal_Fix4

- SBP_9.12_Runtime_Fix4
- SBP_9.9_Portal_Fix6
- SBP_9.9_Runtime_Fix6
- SBP_9.8_Runtime_Fix5
- SBP_9.8_Portal_Fix5

Release 9.12

- SBP_9.10_Portal_Fix3
- SBP_9.10_Runtime_Fix3

Release 9.10

- SBP_9.9_Portal_Fix2
- SBP_9.9_Runtime_Fix2

5.0   Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Release 10.4

- SBP-3414

  In Business Console, a user can set a task status to Error or Expired or Completed without any restriction.
  This issue is now resolved.

- SBP-3559

  When you log in to AgileApps Cloud as a Single Sign-On user and trigger a DBO process instance, the Business Console process page does not load and keeps refreshing.
  This issue is now resolved.

- SBP-3737

  On the Business Console Home page, for a task instance, the options under

  Set Status action appears outside of the browser.

  This issue occurs when you set the Language/Locale as Arabic. Also, the Task

  Instances appear from Left to Right instead of Right to Left.

  This issue is now resolved.

- SBP-3580

  In Business Console, Administer Business Console page does
  not get displayed.
  This issue is now resolved.

- SBP-3268

  In Business Console, the guest user is able to access filesystem files and
  execute some REST services.

  This issue is now resolved.

Release 10.3

- SBP-3245

  Deletion of AppSpace does not happen from the expanded section of the AppSpace tab.

  This issue is now resolved.

- SBP-3388

  DBO process in work stream on the What's Happening Now tab displays the error 'Unable to retrieve Business Rules.'

  This issue is now resolved.

- SBP-3400

  Task Business data does not get populated in a gadget that is added to the task details page in Business Console.

  This issue is now resolved.

- SBP-3404

  Unable to delete the AppSpace created with the option, "Is Internal" YES.

  This issue is now resolved.

- SBP-3439

  When you create an AgileApps gadget in SoftwareAG Designer, the JsonObject error is displayed. This issue is resolved.

- SBP-3539

  When you delete a task instance ID in the Business Console, an internal server error is displayed.

  This issue is now resolved.

- SBP-3544

  When you trigger a process instance which has a case type object, and open and update the case record from step summary, case record displays an error.

  This issue is now resolved.

- SBP-3552

  Child Task in Business Console for the Task deployed on Integration Server is not displayed.

  This issue is now resolved.

Release 10.2

- SBP-3144

  If you select a DBO process in work stream on the What's Happening Now tab, and then click on the process instance, the details of process instance are not displayed.
  This issue is now resolved.

- SBP-3027

  Certain labels in the user interface are not translated.
  This issue is now resolved.

- SBP-3007

PUT operation with GET operation on load does not allow modification of string table input values.
This issue is now resolved.

- SBP-3005
  Duplicate values in a string list that is provided as an input to a service leads to no output values.
  This issue is now resolved.

- SBP-2993
  Mandatory content in document list and document reference list are not deployed properly.
  This issue is now resolved.

- SBP-2984
  In localized languages such as Japanese, when a user performs scheduled delegation, an error
  occurs because the AM/PM strings are translated.
  This issue is now resolved.

- SBP-2974
  Default values in a document list that are specified in Designer are not displayed in the user
  interface.
  This issue is now resolved.

- SBP-2963
  StringList data type has no user interface control.
  This issue is now resolved.

- SBP-2899
  In Business Console, when you click the Get Current Location button in the Business Data tab of the
  case details page, an error appears and the geographic location is not fetched.
  This issue is now resolved.

- SBP-2856
  Landing page takes a long time to render.
  This issue is now resolved.

- SBP-2779
  Pin and hide actions for tasks, processes, and cases are not functioning as expected.
  This issue is now resolved.

Release 10.1

- SBP-1944
  In Designer, when you change the title, description, and hosts for a gadget, it does not update the
  gadget that was previously added to an AppSpace in Business Console.
  This issue is now resolved.

- SBP-2513
  What's Happening Now tab does not consider the latest statuses of DBO models and displays
  incorrect status counts.
  This issue is now resolved.

- SBP-2615
  My webMethods Server log shows 'unable to load ResourceBundle,
  basename=caf.war.wm_socialbpm_defaulttask.AppResources' when accessing Monitoring >

Business > Tasks > DefaultTask > DefaultTask Inbox.
This issue is now resolved.

- SBP-2700
  Masthead does not indicate the number of unaccepted tasks for roles. The icon on the masthead of Business Console indicates no unaccepted tasks even when unaccepted tasks are present for a role.
  This issue is now resolved.

Release 10.0

- SBP-2345
  User should be able to use unary operator (+) as part of expressions in gadgets using JavaScript.
  This issue is now resolved.

- SBP-2966
  For a new MWS user with view permissions, the dashboard with 'Activity streams' keeps displaying the loading page.
  This issue is now resolved.

- SBP-1994
  Upgraded 9.12 from 9.8 / 9.9 / 9.10 fails to load the WHN data as it fails to invoke user preference REST calls.
  This issue is now resolved.

- SBP-2044
  TLM Business Data saved search with values Boolean, Integer, Date, and Double are broken.
  This issue is now resolved.

- SBP-2047
  Business Console is not BiDi compliant.
  This issue is now resolved.

- SBP-1952
  Create case management gadgets in Business Console.
  This issue is now resolved.

Release 9.12

- SBP-1816
  Task details page modal should have inline scrolling.
  This issue is now resolved.

- SBP-1808
  To-do list people picker not launching for the second and subsequent items in the to-do list.
  This issue is now resolved.

- SBP-1564
  Certain issues with Action menu in Task Inbox gadget.
  This issue is now resolved.

- SBP-1510
  Unable to endorse users from Task Details page in Work Stream (within an AppSpace).

This issue is now resolved.

- SBP-1509
  Configure columns not working in Work Stream (within an AppSpace).
  This issue is now resolved.

- SBP-1502
  Certain issues with Activity Stream comments in the Process Details page.
  This issue is now resolved.

- SBP-1483
  A loading image does not appear when reloading process list, but it appears when loading task list.
  This issue is now resolved.

- SBP-1471
  Task list management pagination has dependency on process list management pagination.
  This issue is now resolved.

Release 9.10

- SBP-1648
  Expert endorsements are not saved accurately in My webMethods
  Server with Microsoft SQL Server database.
  If you endorse an expert with a rating in floating point value,
  the endorsement is not saved accurately in SQL Server database.
  For example, a rating of 4.5 might be saved as 4.
  This issue is now resolved.

- SBP-1359
  URL to retrieve task business data is not accessible.
  This issue is now resolved.

- SBP-1166
  Clicking "Reset to default" for color theme returns incorrect selected theme in the REST URL.
  This issue is now resolved.

- SBP-1116
  Business Console does not display details of process instances belonging to version 9.5 or earlier.
  Even after you migrate older process models that contain task steps to version 9.9, Business Console does not display these migrated processes.
  To work around this issue, build and upload the 9.5 or earlier versions of process models in Software AG Designer, so that Business Console displays details of older processes that contain tasks.
  This issue is now resolved.

- SBP-1109
  Delegation of a task to multiple users for the first time is not working.
  This issue is now resolved.

- SBP-1096
  Task panels display in Work Stream toggles with "to-do -list" drop-down option.
  This issue is now resolved.

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.3

- Included information about Process with Case Task type step in *Working with webMethods Business Console* guide.

- Included information about REST Service timeout & Task details for assets created in Web Designer in Working *with webMethods Business Console* guide.

- Included information about AppSpace drop-down in *Developing Gadgets for Business Console* guide.

Release 10.1

- Included information about events for built-in gadgets in the *Working with Business Console* guide.

Release 9.12

- Included information about case management in the *Working with Business Console* guide.

Release 9.10

- Updated the *Working with Business Console* guide to include description for scheduling tasks, using My Calendar, using gadgets for creating dashboards, and using gadgets for customizing process details and task details.

7.0   Terminology Changes

A release is listed in this section only if changes occurred in that release.

Release 10.0

Old Term	New Term
Copy AppSpace	Clone AppSpace

Release 9.12

Old Term	New Term
Dashboard	AppSpace

Release 9.10

Old Term	New Term
Collaboration task or child task	Instant task

8.0 Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 10.1

Added Item	Description
Case gadgets	Built-in gadgets for cases in Business Console.
Scheduled task delegation	Enables you to schedule the delegation of tasks associated with a particular task type.
Gadget information in the Add New Gadget dialog	Information about a gadget such as events and description appears on the dialog when you select the gadget.
MashZone NextGen gadget	Displays the MashZone NextGen data on Business Console as a gadget.
Action menu orientation in Task Inbox	Enables you to select a position to display the task actions menu in the Task Inbox gadget.

Release 9.12

Added Item	Description
AppSpace permissions	Enables you to provide AppSpace permissions in Business Console.

Added Item	Description
Gadget enhancements	Ability to do the following: ▪ Group and share AppSpaces. ▪ Create custom AppSpace layouts. ▪ Expand and collapse gadgets in an AppSpace. ▪ Search for gadgets in the Add New Gadgets dialog box. ▪ Access AppSpaces independently using a URL outside of Business Console. ▪ Show/hide case types, process types, and task types in Work Stream. ▪ Generate to-do lists sequentially. ▪ Customize gadget panels to use custom icons/actions.
Scheduled child task	Enables you to create a scheduled child task.
Case management	Enables you to manage AgileApps cases in Work Stream.

Release 9.10

Added Item	Description
Gadgets	Enables you to: ▪ Create UI components by using HTML, CSS, and JavaScript. ▪ Use built-in gadgets and user-created gadgets for customizing dashboards.
Dashboards tab	Enables you to: ▪ Create new dashboards using gadgets. ▪ Edit dashboards and configure the gadgets used in the dashboard. ▪ Use a customized dashboard instead of the default What's Happening Now page.

Added Item	Description
My Calendar panel on What's Happening Now tab	Enables you to: ▪ View the days when you have scheduled tasks. ▪ View which tasks are scheduled to start on a date. ▪ Identify the days when more task are scheduled. Darker shade of blue indicates that there are more tasks scheduled on that day. ▪ View, reschedule, or edit a scheduled task.
Task Schedule Date and Time fields in Start Task dialog	Enables you to specify the date and time when the task instance should start.
Work Stream Settings in Administration page	Enables you to specify whether to display project name along with process type name and task type name on Work Stream.
Gadgets option in Customize Business Console page	Enables you to specify colors for gadget components.
Callable Process Instances	Enables you to view the callable processes or reference processes of parent processes in a process list in Work Stream.

9.0   Added, Removed, Deprecated, or Changed APIs

A release is listed in this section only if changes occurred in that release.

10.0 Copyright Information

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11.0 Support

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BC-RM-1011-20211015

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October 2021

This file contains important information you must read before using webMethods Business Process 10.11. You can find system requirements, user documentation, and installation and upgrade instructions on the [Documentation website](#) or the [TECHcommunity website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0　Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

None.

2.0　Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

Process Engine

None

Business Process Development

With webMethods Process Development, when a new process model is created

with a SWT resource, the model cannot be disposed properly.

The issue is resolved. To ignore the printed error messages, go to the eclipse.ini

file and set the "org.eclipse.swt.graphics.Resource.reportNonDisposed" flag to "false".

3.0　Usage Notes

This section provides any additional information you need to work with the current release of this product.

- Process Simulation is removed without replacement from release 10.11.

- webMethods Event Routing is deprecated from release 10.7. Contact Software AG Global Support for information about a replacement product.

- Business Process configuration advice for CLARC use cases:
  - PPM uses the end time of a process step when displaying business data for that step. Depending on where the business data occurs in the events, the timestamp used in the KPIs in Optimize may be different from the timestamp in the PPM charts. In order to get the closest representation of the data from Optimize and PPM, it is recommended to configure the business process to send the business data at the end of a step.
  - PPM merges multiple PSIC events for one process step to one function and this results in the use of only the last attribute value. When multiple events for a process step contain business data with the same event type, or one PSIC event contains the same business data event type multiple times,

data may be lost due to PPM using only the last attribute value. To get the closest representation of the business data from both Optimize and PPM, when configuring the business process it is recommended that only one copy of the business data is sent. Additionally, that business data must also be sent at the end of the process step.

- Converting an EDA event type to an Integration Server document type causes the elements in the Integration Server document type to appear with a namespace identifier prefix, for example "p:Order". This may lead to inappropriate content in the businessData elements of the corresponding EDA events. It is recommended to edit the Integration Server document type and remove the prefix from all elements, for example, the element name will then be "Order".

Business Process Development

None

4.0   Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Business Process Development

Release 10.11

- DES_10.7_Process_Fix1

- DES_10.5_Process_Fix5

- DES_10.3_Process_Fix8

- DES_10.1_Process_Fix11

- DES_9.12_Process_Fix13

- DES_10.7_Deployer_Fix2

- DES_10.5_Depoyer_Fix7

- DES_10.3_Depoyer_Fix7

- DES_10.1_Depoyer_Fix6

Release 10.7

- DES_10.5_Process_Fix3

- DES_10.3_Process_Fix6

- DES_10.1_Process_Fix10

- DES_9.12_Process_Fix12

- DES_9.9_Process_Fix9

- DES_9.8_Process_Fix9

Release 10.5

- DES_10.3_Process_Fix3

- DES_10.2_Process_Fix2

- DES_10.1_Process_Fix7

Release 10.3

- DES_10.2_Process_Fix2

- DES_10.1_Process_Fix7

- DES_9.12_Process_Fix9

- DES_9.9_Process_Fix8

- DES_9.7_Deployer_Fix6

Release 10.2

- DES_9.8_Process_Fix8

- DES_9.12_Process_Fix6

- DES_9.12_Deployer_Fix3

- DES_10.1_Process_Fix4

Release 10.1

- DES_9.10_Process_Fix4

- DES_9.12_Process_Fix3

- DES_10.0_Process_Fix1

Release 10.0

- DES_9.9_Process_Fix5

- DES_9.12_Process_Fix2

Release 9.12

- DES_9.6_Process_Fix7

- DES_9.8_Process_Fix2

- DES_9.9_Process_Fix3

- DES_9.10_Process_Fix2

Release 9.10

- DES_8.2_SP2_Deployer_Fix5

- DES_9.8_Process_Fix2

- DES_9.9_Process_Fix2

Process Engine

Release 10.11

- PRT_10.7_Fix1

- PRT_10.5_Fix9

- PRT_10.3_Fix11

- PRT_10.1_Fix13

- PRT_9.12_Fix19

Release 10.7

- PRT_10.3_Fix1

- PRT_10.1_Fix11

- PRT_9.12_Fix17

- PRT_9.10_Fix7

- PRT_9.9_Fix14

- PRT_9.8_Fix24

Release 10.5

- PRT_10.3_Fix2

- PRT_10.1_Fix8

- PRT_9.12_Fix14

Release 10.4

- PRT_10.2_Fix1

- PRT_10.1_Fix6

- PRT_9.12_Fix12

- PRT_9.10_Fix6

- PRT_9.9_Fix13

- PRT_9.8_Fix23

Release 10.3

- PRT_10.1_Fix2

- PRT_9.12_Fix7

- PRT_9.10_Fix5

Release 10.0

- PRT_9.7_Fix12

- PRT_9.8_Fix13

- PRT_9.9_Fix7

- PRT_9.10_Fix2

Release 9.12

- PRT_9.7_Fix11

- PRT_9.8_Fix10

Release 9.10

- PRT_9.6_Fix9

- PRT_9.9_Fix1

5.0   Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Business Process Development

Release 10.2

- WMDPD-8667
  SoftwareAG Installer cannot install Designer->Business Processes into a subfolder of Program Files
  When using the SAG Installer to install into a subfolder of Program Files, selecting the Designer->Business Processes install tree node will display an error dialog showing missing dependencies.
  The issue is resolved.

Release 9.12

- WMDPD-8406
  Models created with EDA as receive protocol do not generate.
  If a model is defined with receive protocol as EDA, the model will fail to generate in Designer. This is because the EventBus JMS Connection Alias is not defined on the Integration Server which is connected to the Designer instance.
  This issue is now resolved.

Release 9.10

- WMDPD-8265
  Resubmitting a process instance in a distributed logical server configuration results in an exception.
  If a process instance is resubmitted in a configuration where multiple logical servers are defined in a distributed multi-node environment, a null pointer exception may be raised and the resubmission will fail.
  The issue is resolved.

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.11

The webMethods Process Simulation documentation has been removed.

Release 10.3

The Process Engine documentation is available as a webhelp on the Software AG Empower website.

7.0   Copyright Information

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8.0   Support

Visit the [Empower website](#) to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the [TECHcommunity website](#) to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

BP-RM-1011-20211015

webMethods Business Rules 10.11 Readme

October 2021

This file contains important information you must read before using webMethods Business Rules 10.11. You can find system requirements, user documentation, and installation and upgrade instructions on the [Documentation website](#) or the [Tech Community website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0   Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0 Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

3.0 Usage Notes

This section provides any additional information you need to work with the current release of this product.

Business Rules

- Business Rules 10.11 now supports Java 11, as opposed to Java 8 for Business Rules 10.7. This means that the handling of date/time patterns in Business Rules changes.
  Specifically, Business Rules now only supports ISO 8601 date/time patterns (preferred) and pre-defined Java date/time patterns (see DateTimeFormatter class).
  Diverging date/time patterns may throw an exception or be parsed into an incorrect date/time. As Business Rules does not replace unsupported date/time patterns in existing rule projects automatically, you must replace them manually.
  Data/Time patterns may have to be adjusted in:

  - Decision table cells using date values or date/time functions such as "createList ({'01/01/21 12:00:00 EST', '01/01/21 12:10:00 EST'})"

  - Decision tree connections and nodes using date values or date/time functions

  - Event rule results using date values or date/time functions

  - Decision table In Effect columns

  - Inputs to the pub.businessrules.client:invoke service in the WmBusinessRules package

  - Inputs to REST service http://%is_host%:%port%/restv2/pub.businessrules.restApi.api:businessrules/

  As an example, the following table lists some previously supported, now unsupported date/time patterns with their proper replacements:

Unsupported date/time format	Problem	Supported date/time format
"2020-01-05T23:00.01Z"	Missing seconds	"2020-01-05T23:00:00.01Z"
"2020.01.05T23:00:00.234Z"	Wrong date divider	"2020-01-05T23:00:00.234Z"
"12/24/2019 06:00:00 AM EST"	Missing comma, date in Java FormatStyle.SHORT	"12/24/19, 06:00:00 AM EST"

	(Locale en_US)	
"24.12.2019 12:00"	Missing comma (Locale de_DE)	"24.12.2019, 12:00"
"2/9/2015 5:01:30 PM"	Missing comma, date in Java FormatStyle.SHORT (Locale en_US)	"2/9/15, 5:01:30 PM"
"September 1, 2015 4:00:00 PM"	Missing comma, date in Java FormatStyle.SHORT (Locale en_US)	"September 1, 2015, 4:00:00 PM"

▪ All Business Rules functionality regarding the creation, display, and use of external event rules has been removed, as the underlying Event Driven Architecture (EDA) has been deprecated since April 2018.
Existing rule projects are automatically upgraded in a 10.11 installation, or you can upgrade them manually in Software AG Designer or the Business Rules interface of My webMethods Server. During this upgrade, all external event rules and event models are fully deleted from the rule project. If these external event rules contain important business logic, you are advised to keep a separate copy of the respective rule project before upgrading it.

Rules Engine

▪ If running in the Microservices Runtime, Business Rules cannot emit events as described in the webMethods Business Rules Reference help. If events need to be emitted, Business Rules must run on Integration Server.

▪ It is possible to design rules that evaluate in an infinite loop at runtime. webMethods Rules Engine has no validation logic to identify possible infinite loops at design time. With the help of the Run As... option, the rule designer can execute rules locally in webMethods Rules Engine to test and verify rule behavior. This local rule execution might expose loops at design time.

Rules Development

▪ It is possible to design rules that evaluate in an infinite loop at runtime. webMethods Rules Development has no validation logic to identify possible infinite loops at design time. With the help of the Run As... option, the rule designer can execute rules locally in webMethods Rules Development to test and verify rule behavior. This local rule execution might expose loops at design time.

Rules Management Console

▪ If you upgrade a rule project in Rules Management Console from a version prior to 9.10, you must assign access rights to users who are supposed to see the new navigation tree item Decision Trees.

4.0   Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Rules Engine

Release 10.11

- WOK_10.3_RuleEngine_Fix15

- WOK_10.5_RuleEngine_Fix17

- WOK_10.7_RuleEngine_Fix8

Release 10.7

- WOK_9.12_RuleEngine_Fix11

- WOK_10.1_RuleEngine_Fix9

- WOK_10.3_RuleEngine_Fix11

- WOK_10.5_RuleEngine_Fix8

Release 10.4

- WOK_10.3_RuleEngine_Fix3

Release 10.3

- WOK_10.1_RuleEngine_Fix5

Release 10.2

- WOK_10.1_RuleEngine_Fix2

Release 10.0

- WOK_9.12_RuleEngine_Fix3

Release 9.12

- WOK_9.7_RuleEngine_Fix5

- WOK_9.10_RuleEngine_Fix1

Release 9.10

- WOK_9.7_RuleEngine_Fix3

Rules Management Console

Release 10.11

- WOK_9.12_RMC_Fix12

- WOK_10.1_RMC_Fix11

- WOK_10.3_RMC_Fix15

- WOK_10.5_RMC_Fix17

- WOK_10.7_RMC_Fix8

Release 10.7

- WOK_10.5_RMC_Fix9

- WOK_10.3_RMC_Fix12

- WOK_10.1_RMC_Fix8

- WOK_9.12_RMC_Fix10

Release 10.5

- WOK_10.3_RMC_Fix5

Release 10.4

- WOK_10.3_RMC_Fix1

Release 10.3

- WOK_9.12_RMC_Fix7

- WOK_10.1_RMC_Fix5

Release 10.2

- WOK_10.1_RMC_Fix2

Release 10.1

- WOK_10.0_RMC_Fix1

Release 10.0

- WOK_9.12_RMC_Fix3

Release 9.12

- WOK_9.10_RMC_Fix1

- WOK_9.9_RMC_Fix1

- WOK_9.8_RMC_Fix4

- WOK_9.7_RMC_Fix5

Release 9.10

- WOK_9.8_RMC_Fix3

- WOK_9.7_RMC_Fix3

Rules Development

Release 10.11

- WOK_10.3_RuleDesigner_Fix15

- WOK_10.5_RuleDesigner_Fix17

- WOK_10.7_RuleDesigner_Fix5

Release 10.7

- WOK_10.5_RuleDesigner_Fix3

- WOK_10.3_RuleDesigner_Fix8

- WOK_10.1_RuleDesigner_Fix7

- WOK_9.12_RuleDesigner_Fix8

Release 10.4

▪ WOK_10.3_RuleDesigner_Fix2

Release 10.3

▪ WOK_10.1_RuleDesigner_Fix5

Release 10.2

▪ WOK_10.1_RuleDesigner_Fix2

Release 10.0

▪ WOK_9.12_RuleDesigner_Fix2

Release 9.12

▪ WOK_9.10_RuleDesigner_Fix1

▪ WOK_9.7_RuleDesigner_Fix5

5.0   Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Rules Engine

Release 10.1

▪ WOK-11680
   Create checkpoint fails for a webMethods Deployer deletion set.
   Using webMethods Deployer, it is not possible to delete a rule project on Integration Server.
   Deployer failes at CreateCheckpoint with a "composite that should be checkpointed [null] is of wrong type: null" error.
   This issue has been resolved.

Rules Management Console

Release 10.2

▪ WOK-12220

Rules Management Console does not start if webMethods Task Engine is not installed.
If webMethods Task Engine is not installed on My webMethods Server, Rules Management
Console fails to start with an "ERROR installing: wm_rma.war
java.lang.reflect.InvocationTargetException".
This issue has been resolved.

▪ WOK-12222
The Business Rules Settings page does not work if webMethods Task Engine is not installed.
If webMethods Task Engine is not installed on My webMethods Server, navigating to the Business
Rules Settings page on My webMethods Server results in a "javax.portlet.PortletException".
This issue has been resolved.

Release 10.1

▪ WOK-11283
Inline editor changes constants, actions, and parameter elements to literal values.
When you select a constant, action, or parameter element of a result node or a condition node and
confirm it with the enter key, the value is changed to a literal value and processed accordingly.
This issue has been resolved.

▪ WOK-11222
Rule project is hot deployed twice when clicking the Close button.
When you hot deploy a rule project and click the Close button of the Hot Deployment Results pop-
up window, you may trigger a second hot deployment of this rule project.
This issue has been resolved.

Release 9.10

▪ WOK-8983
Rule project migration via Public API fails in AIX environment.
On AIX OS, invoking the Rules REST API service
PUT http://%mws_host%:%port%/wm_rma/rest/raw/project/%ruleProjectName%
with a rule project created in a version prior to 9.9 results in an HTTP error 400 and a
"RuleProjectTransformationException ... ".
This issue has been resolved.

Rules Development

Release 10.7

▪ WOK-14034
Entered values are displayed incorrectly in the Rules Development perspective of Software AG
Designer.
In the Rules Development perspective of Software AG Designer on CentOS 7.6, Suse Linux
Enterprise Server 12, or Red Hat Enterprise Linux 7: If you click into a decision table cell to directly
enter a value, only the upper half of the value is displayed.

This issue has been resolved.

Release 10.2

▪ WOK-11712
After Integration Server migration to 10.1, the configuration for subscribing to rules-related events is missing.
When migrating the WmBusinessRules package on Integration Server from a previous release to 10.1, the "DRulesAuditingOnOff" and "DRulesAuditingEDAOnOff" configurations in the SAG_DIR\profiles\IS_default\configuration\wrapper.conf file are missing.
This issue has been resolved.

Release 10.1

▪ WOK-11285
ALWAYS is listed as an assignable constant in Software AG Designer.
When using the Condition Value Modification dialog in Software AG Designer, ALWAYS is listed as a selectable option in the Constants tab. If you select this option, it is not evaluated properly at runtime.
This issue has been resolved.

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Rules Management Console

Release 10.11

▪ All mentions of external event rules have been removed as they are no longer supported.

▪ Internal event rules have been renamed to event rules.

Release 10.7

▪ Chapter "Summary of REST Services" was renamed to "Summary of REST Services on My webMethods Server".

▪ Chapter "Summary of REST Services on Integration Server" was added.

Release 10.5

▪ Chapter on CSV import was added.

- Information on SSL support when configuring an Integration Server connection was added.

Release 10.3

- GDPR information was added.

Release 10.1

- New user interface was documented.

Release 10.0

- Additional API REST services were documented in the webMethods Business Rules Reference help.

Release 9.12

- Information about editing decision trees and working with a data provider service was added.

- Additional API REST services were documented in the webMethods Business Rules Reference help.

Release 9.10

- Chapter "Working with Decision Trees" was added.

Rules Development

Release 10.11

- All mentions of external event rules have been removed as they are no longer supported.

- Internal event rules have been renamed to event rules.

Release 10.7

- Configuring a remote Integration Server for process actions was documented.

Release 10.5

- Chapter on Docker support was added to the webMethods Business Rules Reference help.

Release 10.4

- Auditing information was removed from the guide and included in the webMethods Business Rules Reference help.

Release 10.3

- GDPR information was added.

▪ Auditing was documented in the webMethods Business Rules Reference help.

Release 10.1

▪ Information about working with Predictive Analytics was added.

Release 9.12

▪ Information about working with a data provider service was added.

Release 9.10

▪ Chapter "Working with Decision Trees" was added.

7.0 Terminology Changes

A release is listed in this section only if changes occurred in that release.

8.0 Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 10.11

Removed Item	Replacement, if any
All functionality regarding the creation, display, and use of external event rules	

Deprecated Item	Replacement, if any
All functionality regarding the creation, display, and use of internal event rules	
All functionality regarding the creation, display, and use of decision trees	

9.0 Added, Removed, Deprecated, or Changed Built-In Services

A release is listed in this section only if changes occurred in that release.

10.0 Added, Removed, Deprecated, or Changed Parameters

A release is listed in this section only if changes occurred in that release.

11.0 Added, Removed, Deprecated, or Changed APIs

A release is listed in this section only if changes occurred in that release.

Release 10.7

Added API	Description
POST <base URL>/pub.businessrules.restApi.api: businessrules/projects/invoke	Executes a rule set or decision entity and returns the results of execution.

Release 10.0

Added API	Description
GET <base URL>/projects/%ruleProjectName% /decision_tables/%decisionTableName%	Returns the specified decision table.

Deprecated API	Replacement
GET <base URL>/project/%ruleProjectName% /decisiontable/%decisionTableName%	GET <base URL>/projects/%ruleProjectName% /decision_tables/%decisionTableName%

Release 9.12

Added API	Description
PUT <base URL>/projects/%ruleProjectName% /decision_trees/%decisionTreeName%	Updates the specified decision tree in the given rule project with the provided decision tree JSON.
GET <base URL>/projects/%ruleProjectName% /decision_trees/%decisionTreeName% /condition_nodes/%conditionNodeId%	Retrieves a condition node with the specified conditionNodeId in the given decision tree and rule project.
PUT <base URL>/projects/%ruleProjectName% /decision_trees/%decisionTreeName% /condition_nodes/%conditionNodeId%	Updates a condition node with the specified ConditionNode JSON for the conditionNodeId in the given decision tree and rule project.

Added API	Description
GET <base URL>/projects/%ruleProjectName% /decision_trees/%decisionTreeName% /lines/%lineId%	Retrieves a condition line with the specified lineId in the given decision tree and rule project.
PUT <base URL>/projects/%ruleProjectName% /decision_trees/%decisionTreeName% /lines/%lineId%	Updates a condition line with the specified Line JSON for the lineId in the given decision tree and rule project.
GET <base URL>/projects/%ruleProjectName% /decision_trees/%decisionTreeName% /result_nodes/%resultNodeId%	Retrieves a result node with the specified resultNodeId in the given decision tree and rule project.
PUT <base URL>/projects/%ruleProjectName% /decision_trees/%decisionTreeName% /result_nodes/%resultNodeId%	Updates a result node with the specified ResultNode JSON for the resultNodeId in the given decision tree and rule project.
GET <base URL>/projects/%ruleProjectName% /decision_trees/%decisionTreeName% /results/%resultId%	Retrieves a result with the specified resultId in the given decision tree and rule project.
PUT <base URL>/projects/%ruleProjectName% /decision_trees/%decisionTreeName% /results/%resultId%	Updates a result with the specified Result JSON for the resultId in the given decision tree and rule project.
PUT <base URL>/projects/%ruleProjectName% /decision_trees/%decisionTreeName%/lock	Locks a decision tree so that it can be modified exclusively by the user applying the lock.
PUT <base URL>/projects/%ruleProjectName% /decision_trees/%decisionTreeName%/unlock	Unlocks a decision tree so that it can be locked by another user for exclusive modification.

Release 9.10

Added API	Description
GET <base URL>/projects/%ruleProjectName% /decision_trees/%decisionTreeName%	Returns the specified decision tree.
PUT <base URL>/project/%ruleProjectName%/ unlockall	Unlock all entities of a rule project and the project itself.

12.0 Copyright Information

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13.0 Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the Tech Community website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

RULES-RM-1011-20211015

CentraSite 10.11 Readme

October 2021

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1.0   Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the <u>Empower website</u>.

2.0   Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the <u>Empower website</u>.

- INM-19625
  SOAP API configured with "Enable REST support" policy action shows invalid endpoint in API Portal Try-Out page.
  When a SOAP API configured with the "Enable REST support" policy action is published to API Portal, one invalid endpoint is added to the list of possible valid endpoints in the API Portal Try-Out page. However, the invalid endpoint has no functionality impact.
  There is no workaround for this issue.

- INM-19867
  Graphical asset navigator charts are not saved in Internet Explorer.
  When CentraSite Business UI is accessed via Internet Explorer, if attempts are made to save the graphical representation of relationships between assets by way of any one of the Asset Navigator charts, for example, TreeChart, SunBurst, Icicle, and GraphChart, CentraSite does not save the graphical chart as an image (.png, .jpg, .bmp or .gif) file.
  To work around this issue, right-click on the required chart, and then select the "Save picture as..." option from the context menu.

- INM-16782
  Potential conflicts between predefined profiles and user-defined profiles.
  In the user interface, the sequence number plays a vital role in the profile display order and the instance level profile permission. In general, the sequence numbers assigned to the predefined profiles and computed profiles are odd numbers and even numbers are assigned to the user-defined profiles. However, some predefined profiles are designated with an even sequence number. When a user creates a new profile, consider the system assigns an even sequence number that matches with one of the predefined profiles. When the user sets the profile-level permissions for the new profile, the same permissions are also assigned to the predefined profile that has the same even sequence number within the asset type. As a result, the user might get permissions to more profiles than intended. The following list shows some of the predefined profiles that have an even sequence number:
  - Identification
  - Summary
  - Technical Details
  - Default
  - Details

- Specification
- Support

There is currently no workaround for this issue. However, Software AG strongly recommends that you create a new profile and delete the conflicting user-defined profile within the asset type. Additionally, if the predefined profiles "Runtime Events" and "Runtime Metrics" are missing due to a conflicting sequence number, execute the Java tool named FixProfileSequenceNumber.jar in the command line interface CentraSiteToolbox.cmd (Windows) or CentraSiteToolbox.sh (UNIX) of CentraSite, to fix the sequence number issue.

The syntax is of the format:

C:\SoftwareAG\CentraSite\utilities>CentraSiteToolbox.cmd FixProfileSequenceNumber.jar <CentraSite URL> <admin user id> <password>

Example:

C:\SoftwareAG\CentraSite\utilities>CentraSiteToolbox.cmd FixProfileSequenceNumber.jar http://localhost:53307 Administrator manage

3.0   Usage Notes

This section provides any additional information you need to work with the current release of this product.

- INM-17284
  Unable to renew expired API keys in CentraSite.
  In CentraSite, it is not possible to renew an API key that has expired. Therefore, it is necessary to renew the API key before it expires.
  To work around this issue, request a new key for consuming the API whose key has expired. You also need to update the applications of that particular API to use the new API key.

- PIE-33367
  IS assets cannot be retracted from CentraSite after migrating Integration Server to version 9.7 or later.
  After migrating Integration Server to version 9.7 or later, Integration Server cannot retract IS assets that were published to CentraSite by an earlier version of Integration Server.
  There is currently no workaround for this issue. If you encounter this situation, contact Software AG Global Support.

- CentraSite and webMethods API Portal Product Compatibility: The webMethods API Portal version must be the same or higher than the CentraSite version.

- API Portal instances must be republished right after upgrading CentraSite to versions 9.9 and later.
  After upgrading CentraSite and webMethods API Portal to versions 9.9 and later, you must republish all of the API Portal instances that were created in earlier versions of CentraSite before executing publish or unpublish actions on APIs.

- If the machines support ONLY IPv4, *com.softwareag.centrasite.soalink.events.snmp.host* property in <SAG_Root>/CentraSite/cast/cswebapps/SOALinkSNMPEventsListener/WEB-INF/web.xml should point to the hostname of the machine. The default value works fine for dual IP stacks.

- INM-18818
  After upgrading to CentraSite 9.0 SP1 and later from an earlier version of CentraSite, the location of the WSDL and schema files imported in the new CentraSite installation point to a unique folder in WebDAV directory.
  Prior to CentraSite 9.0 SP1, the location of WSDL and schema files was defined by the targetNamespace of the file.
  For example:
  …/ino:dav/ino:dav/projects/WSDL/<Target Namespace in WSDL>/uddi_<key>/<Name of WSDL>.wsdl
  This resulted in long file names and complex relative paths of the imported files in WebDAV.
  To address this issue, the location of newly imported WSDL and schema files is redefined by the unique folder in WebDAV directory.
  For example:
  …/ino:dav/ino:dav/projects/WSDL/uddi_<key>/<Name of WSDL>.wsdl
  However, the WSDL and schema files imported with previous versions of CentraSite and transferred to CentraSite 9.0 SP1 and later will continue to include the targetNamespace of the file.

- INM-17023
  Importing older versions of predefined asset types is no longer allowed.
  Importing predefined asset types is no longer possible if the asset type is exported from a CentraSite installation prior to 9.6. For example, a predefined asset type from version 8.2 cannot be imported to CentraSite 9.8.
  You can, however, import asset instances of older versions if the predefined asset type definition in the export archive matches with the existing asset type definition in the version 9.8 registry.

- INM-17243
  NTLM Transparent Mode with Kerberos Authentication Support.
  When a virtual service is configured for NTLM authentication scheme in transparent mode, Mediator behaves in "pass by" mode, allowing an NTLM handshake to occur between the client and server. This kind of NTLM handshake becomes unreliable on certain circumstances.
  Mediator now supports Kerberos handshake in Transparent mode. If you choose to use the NTLM Transparent mode with Kerberos authentication, set the value of the watt.pg.disableNtlmAuthHandler property to "true" in the extended settings for the Integration Server. For information about the watt.pg.disableNtlmAuthHandler property, see *Administering webMethods Mediator* (version 9.8). For more information about working with extended configuration settings, see the *webMethods Integration Server Administrator's Guide*.

- CentraSite does not support overinstall since version 9.7.
  CentraSite does not support overinstallation in versions 9.7 and later. This means that there is no overinstallation procedure for CentraSite. Instead, if you are upgrading to CentraSite 9.9 from an earlier version of CentraSite, you must use the side-by-side (SBS) installation. For detailed upgrade instruction, see *Upgrading webMethods and Intelligent Business Operations Products*.

- Upgrade procedure does not update custom SSL client configurations.
  If you perform an upgrade from CentraSite version 9.x to versions 9.9 and later, the upgrade does not automatically upgrade your custom SSL configurations for communication between clients and the CentraSite Registry Repository. As a result, some of your existing CentraSite 9.x custom configurations might not be valid for CentraSite versions 9.9 and later.
  Therefore, you need to adjust your custom SSL configurations after upgrading to CentraSite versions 9.9 and later. For detailed information about setting SSL configurations, see the *CentraSite Administrator's Guide*.

4.0   Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the Empower website for detailed information about fixes.

Release 10.7

- INM_10.7_Fix5

Release 10.5

- INM_10.5_Fix20

Release 10.3

- INM_10.3_Fix25

Release 10.1

- INM_10.1_Fix31

5.0 Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

6.0 Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.3

- The chapter "Policy Management" in the CentraSite User's Guide has been updated to include the new section "Managing Design Time Policies through CentraSite Business UI" which describes how to create and manage design time policies through CentraSite Business UI.

Release 10.1

- The chapter "Type Management" in the CentraSite User's Guide has been updated to include the newly introduced CRUD functionalities for managing asset types through CentraSite Business UI.

- A new chapter "CentraSite and API Gateway Integration", which describes how the Virtual Service assets and their associated runtime components defined and published from CentraSite Business UI are mapped into API Gateway, has been added to the CentraSite User's Guide.

7.0 Terminology Changes

A release is listed in this section only if changes occurred in that release.

Release 10.5

Old Term	New Term

8.0   Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 10.11

Removed Item	Description
CentraSite Control UI (Pluggable UI)	CentraSite Control UI is removed. Instead, use CentraSite Business UI.

Release 10.7

Removed Item	Description
UDDI Support	CentraSite support for UDDI V2 and V3 is removed. There is no replacement for this.

Release 10.5

Added Item	Description
Legacy Portal Publish	Beginning with version 10.5, you can publish mediator published APIs to API Portal using the "Legacy Portal Publish" action.

Release 10.4

Added Item	Description
Promote Action in BUI	You can now promote APIs from an API Gateway instance to another. When there is more than one API Gateway instance available in your environment, you can choose the required instance to which the API must be promoted.

Deprecated Item	Replacement, if any
UDDI Support	CentraSite support for UDDI V2 and V3 is deprecated and will be removed in future releases. There is no replacement for this.

Release 10.3

Added Item	Description
Design Time policy Management in Business UI	Beginning with version 10.3, CentraSite Business UI supports the design/change time policy management. You can now use CentraSite Business UI to create and manage design/change time policies in CentraSite.

Release 10.2

Added Item	Description
Lifecycle management in Business UI	Beginning with version 10.2, CentraSite Business UI supports the lifecycle management. You can now use CentraSite Business UI to create and manage lifecycle models and stages in CentraSite.

Deprecated Item	Replacement, if any
CentraSite Control UI (Pluggable UI)	CentraSite Control UI is deprecated and will be removed in future releases. Instead, use CentraSite Business UI for managing and integrating the SOA governance processes.

Release 10.1

Added Item	Description
Asset type management in Business UI	Beginning with version 10.1, CentraSite Business UI supports asset type management. You can now use CentraSite Business UI to create and manage asset types in CentraSite.
Design time policy actions	CentraSite Command Line Interface (CLI) offers new commands for design-time policy management. You can now use the CentraSite command tools to create and manage design-time policy actions in CentraSite. You can create the design-time policy action skeleton as an Eclipse project, upload, delete, download, and list the available policy actions in CentraSite. You do not need to suspend a policy before making any changes to its action parameters.

Added Item	Description
Consumers synchronization	CentraSite Business UI supports synchronizing of global consumers with one or more Mediator gateways.
LDAP user synchronization	CentraSite Business UI supports synchronizing of user attributes from an active LDAP directory for the ease of user management. CentraSite introduces a new command tool "sync LDAP Group" to synchronize the group attributes along with its user attributes in LDAP.
Introduction to API Gateway asset	CentraSite offers a new gateway type "API Gateway" to publish and unpublish APIs from CentraSite to API Gateway.

Deprecated Item	Replacement, if any
Type management in Control UI	Beginning with version 10.1, Type management in CentraSite Control UI is deprecated and will be removed in future releases. Instead, use Asset Type management in CentraSite Business UI to create and manage asset types in CentraSite.

Removed Item	Replacement, if any
Runtime policy management	You cannot manage the runtime policy actions of an API that is published to API Gateway through CentraSite Business UI. Instead, you must manage the API's policy actions through API Gateway. However, CentraSite introduces a new link "View Runtime Enforcements" to view the runtime policy actions for the API in API gateway for a holistic view.

Release 10.0

Added Item	Description
API Portal publish enhancement	You can now publish the versioned APIs to API Portal. When versioning an API, the access tokens associated to the old version of the API are cloned and associated to the new version of the API. Each cloned access token has its own expiration time within the API. When publishing the old version of the API to API Portal, CentraSite automatically associates and publishes the new version of the API to API Portal.
Reporting enhancements	CentraSite now supports RDBMS as data source for runtime events and metrics. With this feature it is not required that the Mediator events and metrics should be sent to CentraSite to generate reports.

Removed Item	Replacement, if any
Federation	The UDDI-based federation which provides the functionality to federate data between two UDDI v3 compliant registries has been removed from the product. There is no replacement for the UDDI federation.
SSXLoginModule	CentraSite no longer supports the SSXLoginModule. This implies that the CentraSiteCommands related to SSX are no longer supported.

Release 9.12

Added Item	Description
HTTP PATCH support	CentraSite supports HTTP PATCH for native and virtualized REST services.
JDBC support	CentraSite reporting framework supports JDBC as one of the data source.
Report template permission	CentraSite supports fine grained permission model for Report templates.

Removed Item	Replacement, if any
XTS support removal	CentraSite used to use XTS for replication. This has been dropped in this release to simplify the deployment. This means customers do not have to open the XTS port in firewall.
53305 port	CentraSite will no longer use the port number 53305 but instead the port number 53307.

Release 9.10

Added Item	Description
Taxonomy management	CentraSite supports creating and managing taxonomies using the CentraSite Business UI. The same is deprecated in CentraSite Control UI.
LDAP validation service	CentraSite now supports validation of the LDAP authentication configuration at each step in the configuration process.
OData support	CentraSite now provides Open Data Protocol (OData) service management. CentraSite Business UI enables the creation of HTTP-based OData services, which allow resources to be identified using Uniform Resource Identifiers (URIs), and the virtualization of OData services. However, an instance of Virtual OData service can be published to the webMethods Mediator gateway only after applying the XB_9.10_Fix1.
New action added to the CentraSite Business UI	This release introduces a new action, "Notify Consumer" that you can use to send ad hoc e-mail notifications to all registered consumers of a particular API.

Added Item	Description
Enhancements to CentraSiteCommand	CentraSiteCommand line tool has been enhanced to include the following functionalities: 1. The following two CentraSite Commands are introduced to allow access token management using the command line interface: - restore accesstokens - purge accesstokens 2. Report management using the command line interface has been improved to include additional commands for execution of the CRUD operations on reports.
Pluggable actions for CentraSite Business UI	In addition to the preconfigured set of actions, users now have the option to plug-in their own custom action implementations. The custom-created actions allow users to extend the product functionality. The following rendering mechanisms are supported for any custom action: - WithUiRendering - WithoutUiRendering

Added Item	Description
Access token enhancements	The following changes were made to improve the access token management using the CentraSite Business UI: - Access token configuration screens have been improved to display a warning message because there is a possibility that changing the configuration of an API could invalidate the user access tokens. This improvisation ultimately offers a better user experience. - The configuration screen for policy actions, for example, Throttling Traffic Optimization, has been simplified to display only the access tokens created for a particular API as the possible list of consumers during the virtualization process. This simplified user interface prevents users from choosing an unknown consumer accidentally. - Previously, when an API is unpublished from webMethods API Portal, access tokens associated with API were deleted from the API Portal registry. Upon republishing, only the API was published to API Portal. Now, republishing the API also publishes the associated access tokens to API Portal.
Swagger enhancements	A new policy action, "Generate Swagger2.0 file", has been introduced to export a REST API or a Virtual REST API in Swagger format. This policy action applies to the following set of events: - Post-Create - Post-Update - Post-State Change - OnTrigger
Handling of CentraSite logs	CentraSite logs have been separated from the logging containers and placed inside a dedicated log file called centrasite.log. This log file is available in the <Software AG_directory>/profiles/CTP/configuration directory where wrapper.log is available.

Deprecated Item	Replacement, if any
Taxonomy management in Control	Beginning with version 9.10, CentraSite does not support creating and managing taxonomies using the Control UI. Instead, CentraSite supports creating and managing taxonomies using the CentraSite Business UI.

9.0 Copyright Information

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10.0 Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

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CS-RM-1011-20211015

webMethods CloudStreams 10.11 Readme

October 2021

This file contains important information you must read before using webMethods CloudStreams 10.11. You can find system requirements, user documentation, and installation and upgrade instructions on the [Documentation website](#) or the [Tech Community website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0   Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0   Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

CloudStreams Server

- WST-5700
  In CloudStreams REST Provider APIs, the Interaction list API displays inappropriate error message for incorrect connector details.

  For Interaction list API, if users send REST connector details for SOAP Interaction list API, it displays error dump files instead of a correct message.

  Workaround: Do not provide REST connector details to SOAP interaction-related APIs and vice versa.

- WST-5703

  Request arguments associated with a mapper service are not listed as expected.

  In a mapper service, request arguments associated with a service are not displayed in a connector descriptor. As a result, users are unable to view the arguments from CloudStreams Development Plugin and users cannot provide the default input during design time from CloudStreams Development Plugin.

  Workaround: Update the connector descriptor manually.

- WST-5706

  While loading sandbox in the *Edit Connection page*, the following error message appears: "*OAuth token not valid*". This issue is observed while editing the connection for *Adobe Enterprise Platform* connector.

  Workaround: Regenerate the access token and load sandboxes.

- WST-5707
  When users click the *Load* button multiple times, duplicate sandbox name is displayed. This issue is observed while editing the connection for *Adobe Enterprise Platform* connector.

  Workaround: Regenerate the access token and load sandboxes.

CloudStreams Development

- WCD-1921

  The table header that appears in the provider Refactor Preview screen gets blurred when the screen is resized.
  There is currently no workaround for this issue.

3.0   Usage Notes

This section provides any additional information you need to work with the current release of this product.

CloudStreams Server

- If Integration Server Microservices Runtime (MSR) docker image is built excluding the Web Services Stack, then CloudStreams does not work.

- CloudStreams provides a provision to call any Integration Server service in the start-up sequence.

- CloudStreams REST resource supports only one type of message builder and formatter for all response codes.

- CloudStreams does not support the RPC/encoded style WSDL.

- CloudStreams does not support the RPC/literal style WSDL.

- CloudStreams does not support sharing of Connector Virtual Services, Virtual Services, and Policies across nodes in a clustered setup. These artifacts should be manually deployed to a clustered node on need basis.

- CloudStreams SOAP services support sending an attachment through MTOM as a base64 encoded input. The support to wrap an attachment as a XOPObject type and sending large attachments is not supported.

- For SOAP based connectors, if the WSDL has multiple bindings for a given service, CloudStreams does not support changing multiple URLs dynamically to connect to the service endpoint.

- webMethods Mediator and CloudStreams products are not compatible. The products must be installed on separate webMethods Integration Server instances.

- While enabling a CloudStreams connector listener, if there are connectivity issues such as network and proxy issues while connecting to the streaming API endpoint, the listener automatically goes into retry mode and attempts to connect to the API endpoint until the configured connection timeout is exhausted. The connector listener inherits the timeouts (Connection TimeOut and Socket Read Timeout) from the connector connection. In case the timeout is set to a large value, the update

to the connector listener "enabled" status takes quite a while to reflect in the Integration Server Administrator. This may convey an impression to the user that nothing is happening. To confirm the processing, the user should check the server logs with "Streaming" logging component configured to *Debug* or above, or alternatively reduce the timeout values to speed up the "enabled" status update for the connector listener.

▪ If you disable a CloudStreams connector listener, a disconnect call is sent to the streaming provider. However, in the server logs, a META_CONNECT event is observed soon after the META_DISCONNECT event. This is because when a disconnect call is sent to the streaming provider, the provider server also wakes up the long poll that may be outstanding and replies with a connect message that may reach the client after the disconnect reply message. This is expected behavior.

▪ In a clustered set up, if a Terracotta server is down or unavailable for some reason, CloudStreams connector listeners will continue to function in a manner like a standalone set up.

▪ CloudStreams connector listener runtime error events will be handled by an error handler service, and an (optional) callback back service will be invoked with output of the error handler service to take further action based on the error handler result.

CloudStreams Development

▪ OpenAPI 3.0 unsupported capabilities are as follows:

  o CloudStreams does not parse the composed schema objects (allOf, anyOf, oneOf, and so on) from OpenAPI specification.

    For every composed schema object CloudStreams encounter while parsing the specification, the parser adds an empty object to the document(signature).

    Workaround: While executing the cloud operation for a given resource with a composed schema object in the signature, you can add the required fields under the empty object.

  o CloudStreams skips parsing the "Links" from the OpenAPI specification. These links do not impact the usage of resources.

  o CloudStreams does not have the provision to support the callback capability from OpenAPI specification. Hence, all the resources associated with callback are skipped. Once the parsing is completed, the list of resources that are skipped is shown in the warnings dialog.

  o The *request/response* schema with nested references adds the extra root in the signature and is not accepted by the backend. Hence, the OpenAPI specification with nested references may not work as expected with CloudStreams.

▪ CloudStreams Provider projects developed using the older plug-in, that is, v9.12 and earlier, cannot be migrated or upgraded to the v10.2 plug-in. You must create new projects.

▪ While creating a connector, if the connector ID contains dots (.), nested or hierarchical folders will be created. For example, if the connector ID is a.b.c.d.e.f.g, nested folders will be created named as a, b, c, d, e, f, and g. It is recommended to have as less dots as possible in the connector ID in order

to have a smaller hierarchical structure in the Package Navigator view in the Service Development perspective.

- While creating a connector using a Swagger file, authentication schemes are not parsed. You must add the authentication schemes after creating the connector.

- You will not be able to delete a provider package if it is published. You must first *unpublish* the provider package and then delete it.

- You will not be able to update the Resource Group reference if a provider package is published. You must first *unpublish* the provider package and then update the Resource Group reference.

- GET, PUT, POST, DELETE, and PATCH are the only methods supported while creating a REST resource. If you are creating a connector using a Swagger file, any other method available in the Swagger file will not be supported.

- To view the newly added assets, you must refresh the package from the Package Navigator view in the Service Development perspective.

- To import a Provider folder, if the Provider package is created on a different server, you must have access rights on that server.

- To import a published Provider package, *nsName* must follow the following namespace convention: <connector_id>.<service_name>. If this convention is not followed, the Provider package can still be imported, but a few functionalities might not work after import.

- Assignment from services is not removed from the Connector XML file when the service is deleted from a perspective other than CloudStreams Development. When Rest elements such as Parameters, Headers, Body, and Connection properties have assignments from a service and the service is deleted from a perspective other than CloudStreams Development, the user interface and the Connector XML file still show the assignments. These assignments will have to be removed (*Unassign*) manually.

- Adding or deleting a user will not reflect automatically on the "Run As User" list for a "Service Invocation" configuration on the "Event" tab of an already open listener node. The listener node must be closed and reopened to reflect the updated user list. Additionally, if the "Service Invocation" action has been configured to be applied on the incoming events and the configured "Run As User" user has been deleted, then the "Run As User" value has to be manually reconfigured.

4.0 Fixes Included in Each Release

This section lists the *latest fix level* that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

CloudStreams Server

Release 10.11

- WST_10.7_Fix1
- WST_10.5_Fix28
- WST_10.1_Fix10

Release 10.7

- WST_10.5_Fix24
- WST_10.3_Fix13
- WST_9.12_Fix11

Release 10.5

- WST_10.4_Fix6
- WST_10.3_Fix7
- WST_10.1_Fix10
- WST_9.12_Fix10
- WST_9.10_Fix14

Release 10.4

- WST_10.3_Fix4
- WST_10.1_Fix7
- WST_9.12_Fix8
- WST_9.10_Fix12

Release 10.3

- WST_10.2_Fix2
- WST_10.1_Fix8
- WST_9.12_Fix6

Release 10.2

- WST_10.1_Fix4
- WST_9.12_Fix5
- WST_9.10_Fix11
- WST_9.9_Fix6

Release 10.1

- WST_9.12_Fix3

Release 9.12

- WST_9.10_Fix4

Release 9.10

- WST_9.9_Fix2

CloudStreams Development

Release 10.11

- WCD_10.7_Fix1
- WCD_10.5_Fix5

Release 10.7

- WCD_10.5_Fix3

Release 10.5

- WCD_10.4_Fix3
- WCD_10.3_Fix4

Release 10.4

- WCD_10.3_Fix3
- WCD_9.12_Fix3

Release 10.3

- WCD_10.2_Fix1
- WCD_10.1_Fix2

- WCD_9.12_Fix2
- WCD_9.10_Fix4

Release 10.2

- WCD_10.1_Fix1

Release 9.12

- WCD_9.10_Fix2

5.0　Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

CloudStreams Server

Release 10.11

- WST-5388

  2-way SSL for CloudStreams connection inline OAuth Token generation for Authorization Code flow and JWT flow was not supported. Currently, 2-way SSL access token generation can be achieved by setting global Keystore and Truststore. The user interface should accept user input for keystore details.

Release 10.7

- WST-4586

  Listener error handler service is invoked when it receives an error event, even though the error handler configuration is disabled.

Release 10.4

- WST-3895
  When a CloudStreams connection referenced by a CloudStreams connector listener explicitly references a proxy configuration, or when a default proxy configuration is available in Integration Server Administrator > Settings > Proxy Servers, and the configured proxy server throws a Basic Authentication challenge to the CloudStreams connector listener, the listener fails to enable.

  This issue is resolved.

- WST-3910
  If a user adds a custom header while updating the subscription details for a connector listener, CloudStreams Server ignores it and does not send it in the request.

  This issue is resolved.

- WST-3917

  Errors occur while applying OAuth v1.0a alias configurations from a source system to a target system. Because of the errors, OAuth aliases are not listed on the target system, which includes the newly created OAuth aliases. This is because update to the Access Token Secret of the respective OAuth aliases fails on the target system.

  This issue is resolved.

- WST-3918
  When a provider is selected in the Integration Server Administrator, CloudStreams page, the provider label text for the selected provider is not visible.

  This issue is resolved.

- WST-3921
  The "Notify Meta Channel Events" configuration option is available for a CloudStreams connector listener with the connection type defined as "Bayeux HTTP Long Polling" in the Integration Server Administrator, irrespective of whether the "Logging Invocation" action is configured. However, meta channel events are logged in the server log only if the "Logging Invocation" action is configured.
  This issue is resolved.

- WST-3925
  If a connector listener is enabled and the user deletes the actionable service from the Service Development perspective in Software AG Designer, CloudStreams does not notify that the actionable service is not available.

  This issue is resolved.

- WST-3930
  Subscription errors for connector listeners with "Bayeux HTTP Long Polling" connection type do not appear on the CloudStreams Administration page if the subscription has failed and the listener is enabled. The errors may be due to connection related issues, wrong subscriber configurations such as invalid or missing PushTopic name, missing or insufficient access permissions, or exceeding the concurrent user limit for the user or organization.

This issue is resolved.

- WST-3963

"Enable Debug" option does not work for CloudStreams Streaming configuration.

Enabling the "Enable Debug" option for the CloudStreams Streaming configuration does not log additional connectivity-related information in the server logs. This is because after upgrading the cometD client library adoption, the "Enable Debug" option can no longer be supported.
This issue is resolved.

Release 10.3

- WST-3634
Migration of CloudStreams user assets to v10.2 is not supported.
The *pub.cloudstreams.migration:migrate* service does not migrate user assets to v10.2. The following error is observed when this service is run on CloudStreams v10.2 with a package containing assets created on an older version:
"No CloudStreams migrator found for the package."
This issue is resolved.

- WST-3646
"SignatureDoesNotMatch" error appears while running an Amazon S3 cloud connector service.
This error appears if the cloud connector service involves redirection and is created using AWS Signature Version 3.
This issue is resolved.

- WST-3869
CloudStreams is not able to handle the parenthesis in query parameters and the request call fails.
CloudStreams Server is not able to encode the URI containing the parenthesis and due to this, requests are failing.
This issue is resolved.

- WST-3884
Cloud connector service execution fails while sending a JSON payload, which contains German characters. This is observed for back ends that use AWS Signature Version 4 for authentication.
This issue is resolved.

Release 10.2

- WST-3269
Multiple errors are observed while executing cloud connector services concurrently.
For some SaaS back ends, errors such as "Read timed out" and "Premature end of Content" are observed while invoking cloud connector services at the same time. This issue is found in the Apache HTTP library, which is currently used in CloudStreams.

This issue is resolved.

- WST-3241
  Null JSON response is not supported by CloudStreams server.
  If a REST service returns Null as a JSON response, CloudStreams does not recognize or parse the Null JSON response.
  This issue is resolved.

- WST-3344
  CloudStreams Analytics dashboard does not display all the event records for a given date and time.
  In the CloudStreams Analytics dashboard, the grid in the Event tab does not show all the records for a given date and time. This is because MashZone NextGen considers date columns as dimension columns, as far as aggregation is concerned.
  This issue is resolved.

- WST-3352
  Provider charts in the API Usage tab of the CloudStreams Analytics dashboard also display data for inbound invocations.
  The provider charts should display data corresponding to the outbound (cloud connector service) invocations only. However, the charts also display data for inbound invocations, with the provider names being displayed as blank values.
  This issue is resolved.

- WST-3350
  Cloud connector services, which allow multiple operations/objects selection, do not persist duplicate operations/objects in the cloud connector service node.
  From v10.1, the CloudStreams server allows one resource/operation that can take/return multiple operations/objects in the request or response. For example, in the OData connector, you can select an operation as *changeset*, which allows you to select multiple operations/objects. For the *changeset* operation, if you select a combination of "create" and "Account" multiple times, even then it does not get stored in the cloud connector service node.
  This issue is resolved.

- WST-2819
  CloudStreams fails to parse a response when the response formatter/builder is configured as "binary", and the request Accept header is set to "application/json".
  When the response formatter/builder for a cloud connector service is configured to "binary", and the Accept header is configured to "application/json", CloudStreams fails to parse the resulting back end response.
  This issue is resolved.

Release 10.1

- WST-3213
  Issue while adding a custom field as document.
  Cloud connector service allows adding a custom field of type Document. When a custom field data type Document is added to a business object, and the field does not have any child fields, the field

appears as a string in the cloud connector service signature.

This issue is resolved.

- WST-3165

  CloudStreams fails to encode single quotes (') inside a querystring parameter.

  This issue occurs when you invoke back-end queries that have single quotes, to quantify certain entity values as part of the filtering criteria, and the criteria is a part of the query string parameter. For example, a query that returns details of an account object for a certain id match is as follows: *Select id from account where id = '84'*. This issue prevents encoding the single quote ('), resulting in service execution failure.

  This issue is resolved.

- WST-3195

  CloudStreams does not throw a fault in case of a stream response, if the cloud connector service execution fails with client-side fault issues.

  CloudStreams does not throw a fault in case of a stream response if the cloud connector service execution fails with client side fault issues. Instead of fault, the service execution returns a response with a null body.

  This issue is resolved.

- WST-3192

  Error occurred while enabling the connection.

  While enabling the connection, the following errors are found:

  Error occurred while enabling the connection: null and *Connections alias already exist*.

  This issue is resolved.

- WST-2907

  Some of the alert messages shown in the CloudStreams Admin screens are not localized.

  The connectors enable, disable, and delete alert messages are not localized. The alert message shown while enabling the wire logging is also not localized.

  This issue is resolved.

Release 9.12

▪ WST-3149
CloudStreams connector uses the default proxy server alias of Integration Server even if the default proxy server alias is disabled.
Now CloudStreams does not use the default proxy server alias if it is disabled in Integration Server and skips the proxy route for a connection, if the host name of the connection Provider URL is present in the Integration Server "Proxy Bypass" list.
This issue is resolved.

Release 9.10

▪ WST-2378
CloudStreams does not support creating cloud connector services that have an array of JSON objects without the key/root in the request payload.
In the absence of a parent root for the collection, it is not possible to represent the objects under the request payload. Because of this limitation, it is not possible to create or invoke services, which expect a root less array in the request payload.
This issue is resolved.

▪ WST-2644
Cloud connector services, which require mapping of parameters, fail to run.
For a REST based connector, a parameter value cannot be assigned to another parameter by specifying a parameter-to-parameter mapping. This is because CloudStreams does not support parameter to parameter mapping.
This issue is resolved. Parameter to parameter mapping is now supported.

▪ WST-2638
CloudStreams is unable to handle excludeRoot properties in Request signature using XML.
For a REST based connector that communicates in XML, if the "excludeRoot" option is set to "true", then while sending a Request to the back end, CloudStreams is not able to exclude the root of the Request.
This issue is resolved.

▪ WST-2639
Cloud Connector service signature does not populate the picklist values.
Cloud Connector service signature does not populate the picklist values even if the schema element has enumeration defined.
This issue is resolved. Now cloud connector service signature field's picklist attributes are populated with enumerated values available from the schema.

CloudStreams Development

Release 10.4

▪ WCD-1739

When a connector listener is either enabled or unlocked for edit, the connector listener fields are disabled in the Service Development perspective in Software AG Designer. If multiple Actions are configured, the user is not able to select the Actions to view the details.
This issue is resolved.

- WCD-1747
  While creating a Schema type abstract object in a SOAP connector, the "Finish" button is not enabled after selecting the service on the "Assign services" page.
  This issue is resolved.

Release 10.3

- WCD-1593
  Multiple connectors having same IDs and located in different servers cannot be opened.
  This issue is resolved.

Release 10.2

- WCD-1318
  Server name changes when a new entry (user) is added to the Integration Server list.
  In Preferences > Integration Servers, adding a new Integration Server with a different user but with the same host name and port shows only one Integration Server.
  This issue is resolved.

- WCD-1341
  Errors observed while creating a connector if the connector name has spaces.
  This issue is resolved.

- WCD-1348
  Validation errors are observed while creating a connector from a Swagger file.
  While creating a connector using a Swagger file, validation errors are observed in certain cases where the name/id of a connector, resource name, parameter name, header name, and property name contains characters, which are not supported, for example, spaces or special characters in the name.
  This issue is resolved.

6.0   Documentation Changes

This section describes *significant changes* to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

CloudStreams Server

Release 10.11

- The new *webMethods CloudStreams API Reference Guide* is added in this release. This guide describes a set of APIs that allow developers to programmatically integrate their own applications with CloudStreams in a simple and secure manner.
- In the *webMethods CloudStreams Connector Concepts Guide*, the *Managing Cloud Connections* chapter now contains three new sections, namely *Viewing Cloud Connection Status, Understanding Cloud Connection Status*, and *Understanding Cloud Connection State Transition*. The *Viewing Cloud Connection Status* section describes how to view the current status of the configured cloud connection for CloudStreams connectors from the Integration Server Administrator. The *Understanding Cloud Connection Status* section describes the behavior of cloud connection statuses for CloudStreams connectors in Integration Server Administrator. The *Understanding Cloud Connection State Transition* section describes how the status of a configured connection for a connector is determined and transitioned in Integration Server Administrator.

Release 10.7

- The *Cloud Connections, Services, and Connector Listeners* chapter which contains the section *Replaying Salesforce events* has been updated to include the changes for Replay Option. Now the Replay Option supports two more options that are, LAST_RECEIVED and CUSTOM.
- In the *webMethods CloudStreams Connector Concepts Guide*, the *Managing Cloud Connections* chapter now contains a new section *Testing Cloud Connections* that describes how to test the connections in the Connections screen.

CloudStreams Development

Release 10.11

- The *CloudStreams Provider Project* chapter now contains a new section named *Updating a Connector by importing a new Swagger or OpenAPI specification file (REST only)*. This section describes how to update an existing connector, which was created by using the Swagger or OpenAPI specification file option, by importing a new Swagger or OpenAPI specification file.

Release 10.7

- The *CloudStreams Provider Project* chapter that contains the section *Import Swagger specification file (REST only)* is now updated to *Import Swagger or OpenAPI 3.0 specification file (REST only)* to support importing Open API document.

- The *Building Cloud Connector Services* chapter that contains the section *Editing a Cloud Connector Service for a SOAP-Based Provider* is now updated to describe the two options to upload a WSDL file.

7.0   Terminology Changes

A release is listed in this section only if changes occurred in that release.

Release 10.7

Old Term	New Term
Enabled	Status
Yes/No	Enabled/Disabled

Release 10.2

Old Term	New Term
Login/Logout Sequence	Start/Stop Sequence
CFG Parameter	Internal

Release 9.8

Old Term	New Term
Group	Provider Group
Connector Package	Package
Plug-In Content	Connector Content

8.0 Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

CloudStreams Server

Release 10.11

Added Item	Description
Lazy Asset Loading Option	In earlier releases, connection assets were initialized/enabled after restarting Integration Server or reloading a custom package containing the connection. Due to this, there was a delay in Integration Server bootup time as well as package reload time. From this release, we have introduced an option called *Lazy Asset Loading*. On enabling this option, you can defer the initialization of connection assets each time you restart Integration Server or reload the custom package containing the connection, except for the connections that are used in a listener. The deferred connection is enabled during its initial use. For instance, when you are using a cloud connector service, the corresponding connection is enabled, and only then the connector service is executed.
Connection Status for CloudStreams connectors	In earlier releases, CloudStreams did not have the provision to know the connection/ runtime status for a given connection. From this release, we have introduced a new connection runtime status called Suspended, which indicates a connection either waiting to be initialized or not having a valid token due to failure in the last refresh cycle. On clicking the *Suspended* option in the Status column, the details associated with the latest connection will be revealed. **Note**: Service execution failures because of invalid authentication or token will not impact the connection runtime status.

Added Item	Description
Option to configure/disable circular redirects of a connection	From this release, CloudStreams provides the ability to control the Circular Redirection of a connection. Allowing circular redirection for a connection indicates that redirects to visited endpoints will be allowed, up to a maximum number of redirects configured. Disallowing circular redirection for a connection indicates that redirects to visited endpoints will not be allowed and the execution will fail.
CloudStreams Public APIs	From this release, CloudStreams provides a robust set of APIs that allow developers to programmatically integrate their own applications with CloudStreams in a simple and secure manner. The APIs are based on the REST architectural style and can be communicated via HTTP requests. CloudStreams API is a beta feature for this release.

Changed Item	Description
Support for two-way SSL in OAuth 2.0 Access Token generation flows in connection	In earlier releases, CloudStreams connector did not have the provision for two-way SSL connection while generating the Access Token using Authorization Code Flow or JWT Flow. From this release, you could choose *SSL Connection*, if two-way SSL required, in the *Generate Access Token* flows while configuring a new connection or editing an existing connection.
CloudStreams User Interface	In the *Connections list* page, the *Enabled* column is renamed to *Status*. The status of a cloud connection for a CloudStreams connector can be one of the following: *Enabled*, *Disabled*, or *Suspended*. You can click on the label/link to check the runtime state transition summary for a connection and take a suitable action in the connection runtime status popup window.

Release 10.7

Added Item	Description
Support for replaying of events from the "Last Received" event or from a computed replay ID	In earlier releases, CloudStreams connector listener did not have a mechanism to replay all the events after the last received event and to replay all the events using a replay id computed by a custom service. From the release, all the events can be replayed after the last received event by CloudStreams within the retention window using the LAST-RECEIVED replay option. Also, all the events specified by a replayId that is computed by a custom service can be replayed using CUSTOM replay option. This option lets you point to any replay id in the old event stream. You must write a custom service adhering to the `wm.cloudstreams.listener.metadata.connection.specs:retrieveReplayIDSpec` and it maps the replayId to computedReplayID key
Support for testing a connection	In earlier releases, CloudStreams connector did not have the provision to test a connection while configuring a new connection. From this release, you can test the connection while configuring a new connection, editing an existing connection, or for those connections which are either enabled or disabled with disabled test function.
Workday - Multi Version Support	In earlier releases, CloudStreams Server supported a generic connector for Workday. From this release, CloudStreams Server supports defining version backend. Multi-version support is required for Workday because the Workday backend does not guarantee backward compatibility for its API interfaces.

Added Item	Description
Connection JWT (Service Account) Authentication Support in CloudStreams Adobe Experience Platform Connector	In earlier releases, CloudStreams Server had limited support for JWT (Service Account) Authentication. From this release, CloudStreams Server provides the ability to configure JWT or Service Account Authentication with Adobe Experience Platform. Additionally, it also maintains the validity of the authentication tokens by periodically refreshing the underlying tokens. The JWT authentication support provides a seamless connectivity experience with Adobe Experience Platform for the user.
Connection Field Lookup Support in CloudStreams Connectors	In earlier releases, CloudStreams Server did not provide any mechanism for populating the values of a connection configuration field directly from the backend. From this release, CloudStreams Server now provides the ability to configure lookup for any connection field with a possible list of values from the respective SaaS applications. The field lookup support provides ease of use for the end users to choose a value for a field rather than manually entering the same.
Connection Enhanced Logging Support for OAuth Refresh	In earlier releases, CloudStreams Server had limited logging for OAuth 2.0 refresh flow. From this release, CloudStreams Server supports enhanced logging and a separate logger facility for session management. A separate logger facility allows better control over the logs related to session management. A user can increase the logging level for this facility to capture additional logs while debugging session expiry issues besides turning on CloudStreams wire logging which requires an Integration Server restart to take effect.

Added Item	Description
Enhanced Listener Error Handling and Callback Support for CloudStreams Connectors	In an earlier release, CloudStreams Server introduced a limited and generic support for error handling and callback for connector listeners.

From this release, CloudStreams Server provides the ability for a connector listener to attempt recovery for errors configured as recoverable in the associated CloudStreams connector. Additionally, CloudStreams Server provides the ability to configure a callback service which will be invoked with the error details in case of any errors. The error recovery support attempts to offer a seamless real-time integration experience for the user. The error callback support allows the user to take any desired action such as (disable connector listener, send email) based on the error reported. |

Changed Item	Description
CloudStreams Connector Listener	In earlier releases, CloudStreams Connector Listener subscription status was displayed under the Enabled column as Yes or No under the Listener tab in the CloudStreams Administration user interface.

From this release, CloudStreams Connector Listener subscription status is displayed under the Status column as Enabled or Disabled under the Listener tab in the CloudStreams Administration user interface. |

Release 10.5

Added Item	Description
Support for handling listener runtime errors	In earlier releases, CloudStreams listener did not have a mechanism to notify or recover from unwarranted error events which can be handled for a SaaS provider. For example, Salesforce sends the *400::Authenticated user id does not match the session's user id* error, if an access token is invalidated or removed or the *"403::Unknown client"* error if a long-lived connection is lost due to an unexpected network disruption.

From this release, an error handler service provided by the CloudStreams provider is invoked to handle the error events. The error handler service does the callback on a custom callback service provided by the user to take further action based on the error handler service output. Thus, user can ensure that the listener is fault tolerant by enabling the error handler and listener runtime errors are reported and appropriate action taken. |

Added Item	Description
Field Lookup Support in CloudStreams Connectors	In earlier releases, CloudStreams connector listeners and connector services had the capability to show a list of value options from the backend for a field available in the header, parameter, or input signature.

From this release, a Connector Developer can define lookups for a field available in the header, parameter, or input signature. This capability allows the CloudStreams Development UI to show a list of options from the back end to the end user for header, parameter, or signature field for which lookup is defined. |
Server Name Indication (SNI) Support	CloudStreams Server now supports Server Name Indication (SNI) for Applications/Platforms websites. SNI allows multiple websites to exist on the same IP address. Without SNI, each hostname would require its own IP address for an SSL certificate to be installed. SNI solves this problem. CloudStreams now provides SNI supported connections with configurable parameters such as "Enable SNI" and "SNI Server Name".
CloudStreams OAuth 1.0a Authentication Scheme Enhancements	CloudStreams OAuth 1.0a authentication scheme is now enhanced to provide support for realm and user specified signing algorithm.
CloudStreams Server support for MySQL CE 5.7 on Amazon RDS	CloudStreams Server now supports MySQL CE 5.7 on Amazon RDS instance, for persisting governance and analytics data.

Release 10.4

Added Item	Description
Support for multiple authentication schemes in a single connector	In earlier releases, while creating a connector, only one connection type or authentication scheme can be associated with a connector. As some SaaS application providers offer multiple authentication options to access their back end APIs, for example, Salesforce CRM v44, the connector developer needed to create a connector for each authentication scheme, for example, one connector for Basic authentication and another connector for OAuth 2.0 authentication. From this release, a connector developer can build a single connector that supports multiple authentication schemes. You can then select different connection types for the same connector and for the same back end from the connection configuration page in Integration Server Administrator.

Added Item	Description
Support for generating OAuth 2.0 Tokens while creating connections	In earlier releases, CloudStreams did not have the provision to generate Access Tokens required to configure the connection for OAuth 2.0 authorization. From this release, for some connectors, for example, Salesforce CRM v44, you can generate OAuth 2.0 Access Tokens while creating a new connection from the connection configuration page in webMethods Integration Server Administrator. You can generate OAuth 2.0 tokens using the Authorization Code Flow or the JSON Web Token (JWT) Flow approaches.
Clustering support for connector listeners	In earlier releases, CloudStreams connector listeners were not cluster aware. From this release, CloudStreams supports the use of clustering by either distributing the processing load for Streaming API events across Integration Server instances (Multi-Node mode) or limiting the processing to a single Integration Server node (Single-Node mode), while guaranteeing *exactly once* processing in each mode. CloudStreams leverages the distributed cache, which stores data in a Terracotta Server Array to coordinate processing of events between different Integration Server instances. The choice of a cluster support mode for a connector listener is predefined by the connector developer for a back end.
Support for Salesforce replay events	In earlier releases, CloudStreams did not have a mechanism to retrieve and replay lost events in case a SaaS provider sends those events. For example, Salesforce stores standard-volume events for 24 hours. So for versions later than 37.0 in Salesforce, you can now retrieve events if they are within the retention window. You can replay the lost events by selecting the appropriate replay option (ALL or NEW) on the Providers Listener configuration page in Integration Server Administrator.
Update/Upgrade Services Enhancements	The *pub.cloudstreams.admin.service:update* and *pub.cloudstreams.admin.service:batchUpdate* services have been enriched to update the Connector Services from a lower version of the connector API to a higher version having new features like inline connection and multi-part. Further, the new service *pub.cloudstreams.upgrade:batchUpgrade* service updates batches of CloudStreams connector service nodes and connector listener nodes from a lower version of the connector API to a higher version.

Added Item	Description
Migrate Services Enhancements	The *pub.cloudstreams.migration:migrate* service migrates old CloudStreams Connector services, connections, and connector listeners in custom packages that depend on the WmCloudStreams package, and updates them to be compatible with CloudStreams. The updated migrate service can migrate the Connector Service nodes which has new features like inline connection and multi-part.

Release 10.3

Added Item	Description
Support for streaming at the connector level	You can now use a CloudStreams connector to connect to streaming APIs. You can create a CloudStreams connector listener, select a subscription channel from a list of available channels for an endpoint, and configure the action(s) to be applied on the incoming events.
Support for dynamic/inline connection	You can now run a cloud connector service by passing connection details that are different than the connection details configured in the connection configuration page in webMethods Integration Server Administrator. The cloud connector service input signature is automatically updated based on your selections in the *Connection* panel.
Support for multipart/form-data request payload	You can now send a multipart/form-data payload which contains either a file, or text, or a document type to a service provider. The multipart/form-data payload is supported only at the request level, that is, only in the input signature.
Support for dynamic configurations with Microservices	CloudStreams now allows you to use a configuration variables template to externalize the configuration information and pass the configuration information to the Microservices Runtime at startup. By externalizing configuration information, a single Docker image created for a Microservices Runtime can be used across multiple environments, including different stages of the production cycle. The configuration variables template contains configuration properties that map to properties on the Microservices Runtime. The property values can be set externally in the template and then passed to the Microservices Runtime when it starts up. As part of the startup process, Microservices Runtime loads the information from the configuration variables template and replaces the configuration information stored in the file system.

Added Item	Description
Deployer support for large payload handling configurations and listeners	Deployer now supports deploying large payload handling configurations and connector level listeners.

Changed Item	Description
CloudStreams User Interface	Selecting a connector from a provider connector list under Integration Server Administrator > CloudStreams, now opens up a tabbed page display. The page defaults to the Connections tab which lists the connections configured for the selected connector. The newly introduced *Listener* tab displays the listeners configured for the selected listener.
	Additionally, the CloudStreams Administration pages in Integration Server Administrator now use a primary blue colour scheme, which is optimized for accessibility and for brightness.

Release 10.2

Added Item	Description
Changes in connection configuration fields	The following new connection fields are added:
	• Validate After Inactivity
	• Enable Compression
	The following connection fields are updated:
	• Hostname verifier*
	• Use Stale Checking**
	The following connection fields are deleted:
	• Element Character Set
	• Wait For Continue Time
	• Strict Transfer Encoding
	*The Hostname verifier field exposes the following closed set of updated options:
	• org.apache.http.conn.ssl.DefaultHostnameVerifier
	• org.apache.http.conn.ssl.NoopHostnameVerifier
	**The default value of *Use Stale Checking* has been set to *true*.

Added Item	Description
Support for large data configuration	Large data configuration enables CloudStreams to send and receive large binary streams over HTTP/HTTPS. If the new option *Handle Binary Streams* is enabled, then during outbound and inbound invocations, if the stream is greater than the *Threshold Size (bytes)*, the entire stream is not stored in memory. Threshold Size (bytes) is applicable only if *Handle Binary Streams* is enabled. Before enabling the large data handling capability of CloudStreams, configure the TSpace properties (watt.server.tspace.*) in the webMethods Integration Server Administrator.
MTOM	You can now transmit and receive binary content from SaaS providers in an optimized and efficient way using the Message Transmission Optimization Mechanism (MTOM).
Enhanced Concurrency Support	CloudStreams server now handles concurrent executions of cloud connector services in a more efficient way. This improves how parallel requests are handled without running into concurrency issues.
Enhanced server redirection capabilities	CloudStreams server now supports redirection capabilities with other HTTP methods like PUT and DELETE too. This allows interacting with back ends like AWS S3 for redirected data transfers across different regions and geographies.

Release 10.1

Added Item	Description
Support for form encoded parameter	You can now send simple key value parameters embedded in the Request Body for POST or PUT requests. This uses the default web form encoding, which is *application/x-www-form-urlencoded*.
Support for CloudStreams Analytics dashboard on MashZone NextGen instead of the legacy MashZone	You can now use the CloudStreams Analytics dashboard with Software AG Mashzone NextGen Server.
Support for deploying CloudStreams user-created assets using webMethods Deployer	You can now deploy CloudStreams user-created assets such as connections, connector services, and administrative assets or configurations such as oauth token, streaming provider, streaming subscriber and database settings that reside on source webMethods repositories to target webMethods runtime components (runtimes) using webMethods Deployer. You can deploy CloudStreams user-created assets in repository-based deployment only.

Added Item	Description
Support for Single or Multiple Operations and Multiple Business Objects with dependencies	Software AG Designer now displays different Business Object panels based on the following scenarios: • Single Operation has a single Business Object • Single Operation has multiple Business Objects • Single Operation has multiple Business Objects with dependencies • Multiple Operations have multiple Business Objects • Multiple Operations have multiple Business Objects with dependencies
Support for nested, hierarchical, or multi-level business objects	Software AG Designer now displays nested, hierarchical, or multi-level business objects if the resource is designed to support nested business objects. You can expand the nested business objects to display the child-level objects.
Support for NTLM basic authentication	CloudStreams now supports NT LAN Manager (NTLM) authentication protocol. CloudStreams provides basic support for NTLM authentication protocol using the credentials connection group. Limited support is available in this release.
Support for service signatures for back ends having very complex nested document structures	You can now create service signatures for back ends with extremely complex and deep signature structures.
Support for adding nested custom fields in the cloud connector service business object fields.	You can now add complex nested custom fields while selecting a cloud connector service business object field. This is useful for SaaS back ends where the metadata is dynamic, for example, Amazon DynamoDB.

Release 9.12

Added Item	Description
Support for Transport Layer Security (TLS) 1.1 and 1.2	CloudStreams now supports the latest versions of TLS standard v1.1 and v1.2. Using Java Secure Socket Extension (JSSE) based libraries, CloudStreams supports TLS v1.1 and v1.2 for outbound connections.

Added Item	Description
Wire logging message	If you now enable the Connection factory wire logging option from the CloudStreams > Administration > General screen in the Integration Server Administrator, a warning message appears. The message informs the side effects of turning on this setting.

Changed Item	Description
Regrouping between *Basic* and *Advanced* views and reordering of fields within the *Credentials*, *Transport Protocol*, and *Request Headers* connection groups.	Authentication Type field is now moved ahead of the Preemptive Auth field so that fields in the Basic view stay ahead of the fields visible in the Advanced view for the Credentials connection group. Element Character Set and Strict Transfer Encoding fields are moved to the Advanced view for the Transport Protocol connection group. Request Header Names and Request Header Values fields are moved to the Advanced view for the Request Headers connection group.

Release 9.10

Deprecated Item	Replacement, if any
Software AG MashZone based CloudStreams Analytics dashboard.	The Software AG MashZone based CloudStreams Analytics dashboard is deprecated from this release.

Changed Item	Description
CloudStreams User Interface	The HTML-based utility used to administer webMethods CloudStreams has a new look and feel. Menu and screen locations have not changed and there is no change in the User Interface functionality.

CloudStreams Development

Release 10.11

Added Item	Description
Update a connector using the updated OpenAPI/Swagger file	In earlier releases, you could create a connector by importing the Swagger or OpenAPI 3.0 specification file. From this release, CloudStreams provides the ability to update the connector, which was created using OpenAPI/ Swagger, using the updated OpenAPI/Swagger specification file.

Release 10.7

Added Item	Description
Support of workday dynamic WSDL	While configuring the cloud connector service, a new window "Upload WSDL File" is added in the edit option next to Operation field. This window will let you resolve the validation issues in the WSDL URL using the connection details configured
	and can get access to the WSDL content. If the validation fails while uploading the WSDL file, this window lets you upload the file using the two options: ▪ Provide URL for WSDL file ▪ Import WSDL file
Support for open API 3.0	A new import file option "3.0"is added in the "Import OpenAPI specification file" section. If you want to import a Swagger or Open API document, you can choose 2.0 or 3.0 respectively in the Version section.

Release 10.5

Added Item	Description
JWT Token Support	A new authentication type "OAuth V2.0 (JWT Flow)" is added in the authentications type drop-down list box. The connector developer can use this new authentication type while developing a connector for a SaaS application supporting the same authentication mechanism. Also, custom fields are added in the connection groups to add, edit, or delete new properties.

Added Item	Description
OAuth Token Flow Credentials Support	A new authentication type "OAuth V2.0 (Authorization Code Flow)" is added in the authentications type drop-down list box. The connector developer can use this authentication type to provide the capability to generate Access Tokens. Also, custom fields are added in the connection groups to add, edit, or delete new properties.

Release 10.3

Added Item	Description
Support for assignments on Cookies and Service Context	You can now apply assignments on Cookies and Service Context.
Support for applying assignments at the Resource Group level	You can now apply assignments at the *Resource Group* level, which enables you to apply assignments to each resource and operation in the selected Resource Group. Further, assignments are applied in the sequence they appear in the *Configure Assignment* panel.

Release 10.2

Added Item	Description
Change the sequence of assignments	You can now change the sequence of both local and global assignments. The assignments will be applied in the sequence they appear in the *Order* pane.
Support for Start and Stop sequences	You can now define optional Start and Stop sequences, which allow you to manage the connection behavior for both REST-based and SOAP-based providers. Start and Stop sequence is currently in BETA.
Support for moving and copying elements	You can now cut, copy, and paste request parameters, request headers, and response headers for REST-based connectors. For SOAP-based connectors, only request parameters can be currently moved or copied.
Enhanced provider package import process	Import process has been enhanced and allows you to import a provider package as an archive file or import the package from a workspace. Importing published packages is currently in BETA.
Refresh providers and connectors	Refresh button has now been added for enhanced usability to sync assets between the plugin and server for providers and connectors.

Added Item	Description
Support for Record type Parameter Formatter	You can now add record type parameter formatters. A new parameter style *Record (as Query)* has been added, which is a complex record structure representation, split into one or more query string parameters.

Release 10.1

Added Item	Description
Redesigned connector development plug-in	In this release, the *CloudStreams Provider Project* in the CloudStreams connector development plug-in has been redesigned and enhanced for better usability. **Note:** SOAP connector development is in BETA.

Deprecated Item	Replacement, if any
Old connector development plug-in	New connector development plug-in.

Release 9.12

Changed Item	Description
Icons updated to reflect changes in corporate branding.	Icons are updated in Perspectives, Views, Welcome screen, and About contributions.

Release 9.10

Removed Item	Replacement, if any
Redundant fields in REST service interface	**Serialization type** fields are removed from the Cloud Connector Service (REST) > Resource tab > **Request Processing** section. **Parsing type** fields are removed from the Cloud Connector Service (REST) > Resource tab > **Response Processing** section.

9.0 Added, Removed, Deprecated, or Changed Built-In Services

A release is listed in this section only if changes occurred in that release.

CloudStreams Server

Release 10.4

Added Service	Description
pub.cloudstreams.upgrade:batchUpgrade	This service updates batches of CloudStreams connector service nodes and connector listener nodes from a lower version of the connector API to a higher version.
wm.cloudstreams.listener.metadata. connection:registerExtension	This service registers cometd extensions in the process of listener enablement.

Release 10.3

Added Service	Description
pub.cloudstreams.admin.listener:enable	Enables an existing listener.
pub.cloudstreams.admin.listener:disable	Disables an existing listener. Also, disconnects the listener.
pub.cloudstreams.admin.listener:queryListenerState	Returns the current listener state (enabled/disabled) for a listener node.
pub.cloudstreams.admin.listener:listEnabledListeners	Returns a list of aliases for listeners in enabled state for a given connection alias.
pub.cloudstreams.admin.listener:update	Updates a CloudStreams connector listener node with a new set of inputs.

10.0 Copyright Information

This software may include portions of third-party products. For third-party copyright notices, license terms, additional rights or restrictions, please refer to "License Texts, Copyright Notices and Disclaimers of Third Party Products". For certain specific third-party license restrictions, please refer to section E of the Legal Notices available under "License Terms and Conditions for Use of Software AG Products / Copyright and Trademark Notices of Software AG Products". These documents are part of the product documentation, located at https://softwareag.com/licenses and/or in the root installation directory of the licensed product(s).

11.0 Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the Tech Community website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

WCD-WST-RM-1011-20211015

Software AG Command Central 10.11 and Software AG Platform Manager 10.11 Readme

October 2021

This file contains important information you must read before using Software AG Command Central 10.11 and Software AG Platform Manager 10.11. You can find system requirements, user documentation, and installation and upgrade instructions on the [Documentation website](#) or the [Tech Community website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0   Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0   Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

- CCE-7158
  Attempting to view the contents of a repository using the Command Central web user interface fails with the following error: "There is no repository to register". The issue occurs when the repository name contains a space.
  To work around this issue, list the repository contents using the "sagcc list repository content" CLI command.

- CCE-7143
  In the Jobs view of the Command Central web user interface, in some cases Platform Manager provisioning jobs with status COMPLETED have their progress bar at 95%.
  There is no workaround for this issue.

- CCE-7148
  Executing a cross-host migration in Command Central fails at the "Archive source node directory" step when the source installation contains one or more directories with spaces in the filepath. For example, the issue occurs when migrating an installation containing a Universal Messaging instance.
  To work around this issue, set the following Command Central server system property:
  ```
  com.softwareag.platform.management.client.template.composite.migrate.archive.sou
  rce.command=cd %s && find . -type f %s %s | awk '{print \"\\x22\"$0\"\\x22\"}' >
  %s && %s cfM %s -C %1$s @%4$s
  ```

- CCE-7071
  In Command Central, when upgrading a stack or executing a dry run for a stack upgrade, the operation might fail with the following error message at the template validation step:
  "Un-handled internal server error. Internal error: handler not loaded for this platform (<platform>) caused by: com.softwareag.platform.management.common.exceptions.PlatformManagerException"
  To work around this issue, retry the operation.

- CCE-7156
  In the Command Central web user interface, when auto-creating stacks or creating stacks from scratch, the wizard does not list all possible releases in the "Product release" drop-down box.
  To work around this issue, use the following Command Central CLI commands and include the "release=<version>" argument to specify the release version for which to create the stack:
  - Auto-create stacks with the "sagcc create stacks" command.
  - Create stacks from scratch with the "sagcc create stacks auto" command.

- CCE-7144
  When upgrading Command Central, if you provide a password value for the "-p" argument that is different from the administrator user password of the source Command Central, the upgrade operation fails with an error message that does not describe what has caused the failure. The issue occurs because you should provide the administrator user password of the source Command

Central using the "-p" argument.

There is no workaround for this issue.

3.0   Usage Notes

This section provides any additional information you need to work with the current release of this product.

Command Central and Platform Manager

- Installing and uninstalling assets is a preview feature that has limited functions and is:

    - Not intended for use in a production environment

    - Subject to change in the future without deprecation announcements

- Beginning with release version 10.7, the Command Central Docker Builder is deprecated with no replacement.

- When you run the Command Central bootstrap installer for Windows and you want to specify a custom Administrator password that contains special characters, for example ampersand (&), you must encode the password to base64 format and use the `--base64-pass` argument instead of the `-p` argument. Software AG provides a tool for encoding passwords to base64 format. For more information about the tool, see https://github.com/SoftwareAG/generic-tools/blob/master/README.md.

- See the "Software AG Command Central Feature Support Matrix" on the documentation website for details about which Command Central functions are supported for each product release.

- You cannot create mirror repositories for the following operating systems:

    - LNX Linux RHEL and SLES x86

    - HP11 HP HP-UX PA-RISC

    - LNXS390X Linux RHEL and SLES IBM System z

    - AS400 IBM AS/400

    - WNT Microsoft Windows x86

- If you are using Command Central for the first time, you must accept the product license agreement from the Software AG Software Download Center on Empower before you can install products from the Empower Software AG repositories.

- Before you create a database component for a product with version 10.4 or higher, you must install the database scripts for that product. You can install database scripts using the `sagcc exec`

`provisioning products install` command or a run-time micro template.

4.0   Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Command Central

Release 10.7

- CCE_10.7_Core_Fix5

- CCE_10.7_WebUI_Fix5

- CCE_10.7_CCE_SPMplugin_Fix5

- CCE_10.7_CLI_Fix5

Release 10.5

- CCE_10.5_Core_Fix12

- CCE_10.5_WebUI_Fix12

- CCE_10.5_CCE_SPMplugin_Fix12

- CCE_10.5_CLI_Fix12

Release 10.4

- CCE_10.4_Core_Fix5

- CCE_10.4_WebUI_Fix5

- CCE_10.4_CCE_SPMplugin_Fix5

- CCE_10.4_CLI_Fix5

Release 10.3

- CCE_10.3_Core_Fix14

- CCE_10.3_WebUI_Fix14

- CCE_10.3_SPMplugin_Fix14

- CCE_10.3_CLI_Fix14

Release 10.2

- CCE_10.2_Core_Fix4

- CCE_10.2_WebUI_Fix4

- CCE_10.2_CCE_SPMplugin_Fix4

- CCE_10.2_CLI_Fix4

Release 10.1

- CCE_10.1_Core_Fix17

- CCE_10.1_CCCommon_Fix17

- CCE_10.1_WebUI_Fix17

- CCE_10.1_CCE_SPMplugin_Fix17

- CCE_10.1_CLI_Fix17

Release 10.0

- CCE_10.0_Core_Fix6

- CCE_10.0_CCCommon_Fix6

- CCE_10.0_WebUI_Fix6

- CCE_10.0_CCE_SPMplugin_Fix6

- CCE_10.0_CLI_Fix6

Release 9.12

- CCE_9.12_Core_Fix19

- CCE_9.12_CCCommon_Fix19

- CCE_9.12_WebUI_Fix19

- CCE_9.12_CCE_SPMplugin_Fix19

- CCE_9.12_CLI_Fix19

Release 9.10

- CCE_9.10_Core_Fix9
- CCE_9.10_CCCommon_Fix9
- CCE_9.10_WebUI_Fix9
- CCE_9.10_CCE_SPMplugin_Fix9
- CCE_9.10_CLI_Fix9

Platform Manager

Release 10.7

- SPM_10.7_Core_Fix5
- SPM_10.7_SPMCommon_Fix5

Release 10.5

- SPM_10.5_Core_Fix12
- SPM_10.5_SPMCommon_Fix12

Release 10.4

- SPM_10.4_Core_Fix5
- SPM_10.4_SPMCommon_Fix5

Release 10.3

- SPM_10.3_Core_Fix14
- SPM_10.3_SPMCommon_Fix14

Release 10.2

- SPM_10.2_Core_Fix4
- SPM_10.2_SPMCommon_Fix4

Release 10.1

- SPM_10.1_Core_Fix17
- SPM_10.1_SPMCommon_Fix17

Release 10.0

- SPM_10.0_Core_Fix6

- SPM_10.0_SPMCommon_Fix6

Release 9.12

- SPM_9.12_Core_Fix19

- SPM_9.12_SPMCommon_Fix19

Release 9.10

- SPM_9.10_Core_Fix9

- SPM_9.10_SPMCommon_Fix9

5.0 Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Command Central and Platform Manager

- CCE-4978
  When you run a CLI command with the `--sync-job` option and add the `includeHeaders=none` argument in the same command, the CLI does not return the job result and progress details.
  To resolve this issue, do not include the `--sync-job` option and the `includeHeaders=none` argument in the same command.

6.0 Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Command Central and Platform Manager

Release 10.11

The *Software AG Command Central Help* contains a new "Common Use Cases with Command Central" section, which provides the high-level steps for completing the following common tasks using Command Central:

- "How to Get Templates for Upgrade"

- "Install or Upgrade Product Installations with Composite Templates"

- "Install or Upgrade Product Installations with Stacks"

- "Update Licenses on a Number of Nodes with Templates"

Release 10.7

The *Software AG Command Central Feature Support Matrix* is no longer published in PDF format. The HTML format of the *Software AG Command Central Feature Support Matrix* has the following improvements:

- You can search the product matrix table by product name and version.

- The product matrix table contains links to the individual product tables for configuration types, KPI types, migration types, etc., where such tables are available.

The *Software AG Command Central Help* has been re-organized as follows:

- The "Getting Started with Command Central" topic contains information that helps you understand, install, upgrade, and configure Command Central.

- The "Creating, Managing, or Upgrading Standalone Product Installations" topic includes topics all topics about creating, managing and upgrading product installations.

- The "Command Central GitHub Projects" topic includes all topics describing the GitHub projects related to Command Central.

Release 10.5

The *Software AG Command Central Feature Support Matrix* is now available in HTML format.

All topics related to Command Central composite assets are moved from the webMethods Deployer Documentation to the *Software AG Command Central Help* in a new top-level topic, named "Command Central Composite Assets".

The *Software AG Command Central Help* has been re-organized as follows:

- The "Automation and Template-based Provisioning" topic is removed to make it easier to search for topics. The following topics are now top-level topics:
    - "Using Composite Templates"
    - "Using Micro Templates"
    - "Bootstrapping Platform Manager on a Remote Machine Using a Template"
    - "Securing Passwords in Templates"
    - "Managing Database Components Using a Template"
    - "Deploying Command Central Assets to Integration Cloud"
    - "Template Definition Reference"

- The "Command Central Developer Reference" topic is removed to make it easier to search for topics. The following topics are now top-level topics:

    o "Using the Command Line Interface"

    o "Configuring Command Central and Platform Manager"

    o "Introduction to Command Central REST API"

Release 10.4

Software AG Command Central Help includes new topics about:

- "Options" (a new template section supported with DSL version 1.2)

- "Using HTTPS to Connect to Repositories"

- "Provisioning Database Scripts for Software AG Products"

Administering Software AG Products Using Command Central includes a new section about EntireX.

Release 10.3

For information about Command Central composite assets, see:

- *Designer Service Development Help* and *Deploying to webMethods Integration Cloud* about details how to generate and deploy Command Central assets to webMethods Integration Cloud

- *Software AG Command Central Help* and *webMethods Deployer User's Guide* about details how to generate, export, and build Command Central composite assets to deploy on Software AG run-time components running on premise.

Release 10.2

Administering Software AG Products using Command Central is a new web help that includes details about performing administration and configuration tasks in Command Central specific to a product.

Software AG Command Central Help is now updated with information about how to delete Command Central and Platform Manager logs in compliance with the General Data Protection Regulation (GDPR).

Release 10.1

Software AG Command Central Help includes new topics about:

- "Working with Software Stacks" and "Stacks and Layers Commands"

- "Using Micro Templates"

- "Template Definition DSL Reference" (includes the DSL reference template and micro-template reference)

- "Provisioning Assets Commands" and "Repository Commands" (includes the asset repositories commands)

Release 9.12

The *Software AG Command Central Help* has been re-organized as follows:

- The "Getting Started with Command Central" topic contains the information that helps you understand, install, and upgrade Command Central.

- All topics related to tasks that you can do from the Command Central web user interface to manage your landscape are streamlined and much of the information has been moved to the web user interface, where it appears in the form of instructions and tooltips.

- The "Automation and Template-based Provisioning" topic includes all topics about using and developing composite templates.

- The "Command Central Developer Reference" topic includes reference details about the Command Central CLI and REST API.

All product-specific topics about administering product plug-ins for Platform Manager have been relocated to the product administration guides. For example, the administering Integration Server plug-in topics are now included in the Integration Server administration guide.

The *Getting Started with Command Central REST API* is no longer published as a separate PDF guide.

The *Software AG Command Central Feature Support Matrix* is a separate document that includes a feature support matrix for Command Central and all product plug-ins.

Release 9.10

- The "Installing Command Central Using Bootstrap Installer" topic includes information about new custom options when running bootstrap installer and a section on migrating an existing Command Central installation using bootstrap installer.

- The "Provisioning Environments" topic includes sections that describe how to use composite templates to update or migrate product environments.

- The "Managing Database Components Using Command Central" is a new topic that describes how to create or migrate database schemas as part of provisioning or migration through a composite template.

- In the "Repository Management" topic, updated the sections about mirror repositories with information how to create, refresh, and update fix mirror repositories.

- The following product plug-ins for Platform Manager have added new sections:

  - Apama ("Administering Apama")

  - Integration Server, My webMethods, and Universal Messaging (new sections about migrating product instances using the Command Central command line interface)

  - Universal Messaging ("JNDI Management")

7.0   Terminology Changes

A release is listed in this section only if changes occurred in that release.

Command Central

Release 10.7

Old Term	New Term
n/a	Migration template
n/a	Installation report

Release 10.5

Old Term	New Term
n/a	Database micro template

Release 10.3

Old Term	New Term
License manifest report	Snapshot report
License key report	Snapshot report by license key

Release 10.2

Old Term	New Term
n/a	Indexed node alias

Release 10.1

Old Term	New Term
n/a	Stack
n/a	Micro template

8.0 Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Command Central

Release 10.11

Added Item	Description
Custom administrator user passwords	You must set a custom administrator user password when installing version 10.11 of some Software AG products, including Command Central and Platform Manager. For information about other Software AG products, see the release readme for the required products.
	When installing products using Command Central, you use the new ADMINISTRATOR credentials alias to provide a custom password for the administrator user.
COMMON-CREDENTIALS-ADMINISTRATOR	A new default instance of the COMMON-CREDENTIALS configuration type. Note that the ADMINISTRATOR credentials alias does not initially contain a password value. Before using the ADMINISTRATOR credentials for installing a product, you should edit the credentials and provide a strong password

In `layers:<layerName>:`
 	
`productAdministrator:`
 	
`    credentials:`
`<administratorCredentialsAlias>`
 	
`    changeOnFirstLogin: true|false`
	New template section and parameters that specify the credentials alias for the default administrator user of the product and whether the product requires changing the administrator user password on the first login.

`sagcc exec security encrypt input`	The command encrypts user passwords for product configurations included in a properties file, using the environment or global shared secret configured in Command Central.

Changed Item	Description
Install Products wizard	When installing products using the Command Central web user interface, the Install Products wizard now has a Select Credentials step.
	If you are installing products with version 10.11 the Select Credentials step contains:
	- In the **Credentials** field, select the credentials alias to use for the default administrator user for the products you want to install. The default alias is "ADMINISTRATOR". - Select the **Force password change on the first product login** checkbox if the products you install require changing the administrator user password on the first login.
	If you are installing products with version 10.7 or lower, the Select Credentials step does not provide any configuration options.
`sagcc exec provisioning products install`	You can now provide the following arguments when installing products with version 10.11:
	`[administratorCredentials=<credentialsAlias>]`
	`[administratorCredentialsChangeOnFirstLogin ={true|false}]`

Changed Item	Description

Add Installation wizard	• **Install Platform Manager remotely** is renamed to **Install Platform Manager** in the Bootstrap step of the wizard.
	
	• After you select **Install Platfrom Manager** in the Bootstrap step, you must now set the following fields:
	
	    ○ In the **Installer** field, select the bootstrap installer to use for installing Platform Manager. Based on the installer you selected, Command Central will automatically set the operating system in the "Operating System" field.
	
	    ○ In the **Credentials** field, select the credentials alias to use for the Platform Manager administrator user.
	
	    ○ In the **SSH credentials** field, select the SSH credentials alias for the SSH user on the target machine.
	
	    ○ Click the **Advanced** button if you want to set a substitute user alias in the "Substitute user credentials" field or change the default SSH port number in the **Remote port** field.
	
	• The Platform Mgr step is renamed to Connection.

`sagcc exec provisioning bootstrap nodes`	Now the command uses an input file specifying a Command Central bootstrap installer to install a Platform Manager node on a local or remote machine. The command has the following new arguments:
	
	`[isSecure={true|false}]`
	
	`[credentialsAlias=<credentialsAlias>]`

Removed Item	Description
Add Installation wizard	After you select **Install Platfrom Manager** in the Bootstrap step, the **Repository** and **Distribution** fields, and the **SSH connection** button are removed.
	The Platform Mgr step no longer has the **User name** and the **Password** fields.
In `nodes:default:default:bootstrapInfo` and `repositories:product/fix:<repositoryName>: username: <username> password: <password>`	The template parameters are removed. Use the `credentials` parameter instead.
In `nodes:default:default:bootstrapInfo: userName: <substituteUser> password: <substitutePass>`	The template parameters are removed. Use the `credentials` parameter instead.
`sagcc create provisioning bootstrap installers`	The command is removed from the CLI. Use the Command Central bootstrap installer instead.
`sagcc exec provisioning bootstrap nodes nodeAlias [hostname=hostname] [repoName=name] [platform=platform] [installDir=directory] [httpPort=port] [httpsPort=port] [options]`	The command is removed from the CLI. Use the `sagcc exec provisioning bootstrap nodes <nodeAlias> [isSecure={true|false}] [credentialsAlias=<credentialsAlias>] -i <bootstrap-info-file>` command instead.
`sagcc get provisioning bootstrap installers installerName{.sh	.bat} -o installerName{.sh	.bat}`	The command is removed from the CLI. Download the Command Central bootstrap installer from the Empower Product Support website.
`[product=SPM|CCE]` argument from the `sagcc list provisioning bootstrap installers` command	The argument is removed from the CLI command.
In `nodes:default:default:bootstrapInfo: repo.spm: <repositoryName> platform: <platformCode>`	The template parameters are removed. Use the `installer` parameter instead.

Added Item	Description
Substitute user support	You can now define a substitute user to: • Install and start Platform Manager when bootstrapping Platform Manager on a remote machine using a template. • Stop the source Platform Manager when migrating Platform Manager using a template. To define a substitute user, use the `substituteUserCredentials` parameter in the `nodes: default: default: bootstrapInfo:` section of the template.
Upgrading stacks	In the Command Central web user interface, you can now upgrade software stacks with version 10.3 and higher. You can use stacks for the following upgrade types: • **Overinstall** - upgrade to the same installation directory and has the same hosts and ports. • **Side-by-side** - upgrade to a new installation directory on the same host with the same ports. • **Cross-host** - upgrade to a new host with the same ports and the installation directory can have the same or a new value. Each type of upgrade with the stack has a dedicated upgrade wizard. You can also do a dry run of the upgrade, which will only generate and validate the required migration templates. You can review the results of the dry-run job and check the templates before running the actual upgrade.

Added Item	Description
`sagcc exec stacks migrate`	The command upgrades product installations with version 10.3 and higher using a stack. Depending on the `migration.type=` argument, the command executes one of the following upgrade types: • Overinstall • Side-by-side • Cross-host
`sagcc list stacks migrate properties`	The command lists the required and optional migration properties for a stack.
`sagcc list stacks migrate status`	The command checks the migration status after a failed migration attempt with a stack. The command output also indicates whether Command Central generated any templates before the migration attempt failed.
`sagcc exec templates composite generate migration`	The command generates a migration template that includes the infrastructure data of the source Platform Manager nodes. Based on the `migration.type` argument, the command generates a template for the following upgrade types: • Overinstall • Side-by-side • Cross-host • Generic (for any of the supported upgrade types)
Automatic creation of stacks and layers	In the Command Central web user interface, you can now automatically generate stacks and layers from existing environments managed by Command Central. In the Auto-create stacks wizard you can select all environments and release versions, or a specific environment and version, for which Command Central will generate stacks.

Added Item	Description
`sagcc create stacks auto`	The command generates product stacks with layers from existing environments managed by one Command Central automatically. You can also use the command to generate product stacks only for a specific environment, or only for product installations that have the same release version.
`sagcc update stacks alias`	The command updates the name of the specified stack.
`sagcc update stacks layers alias`	The command updates the name of the specified layer.
Export Infrastructure to Template wizard	In the Command Central web user interface, you can now export a Platform Manager instance from a managed installation to an infrastructure micro template. Command Central generates a template with the Platform Manager instance data, imports the generated template automatically, and creates a layer type definition for the template.
`sagcc exec provisioning assets install`	PREVIEW. The command installs assets with their dependencies from an asset repository into a target node.
`sagcc exec provisioning assets uninstall`	PREVIEW. The command uninstalls the specified assets from the specified node.
Installation reports	In the Command Central web user interface, you can now generate installation reports that contain detailed information for each installed product, such as the type of product installation (for example, development or production), and the number of installed and running product instances.
Displaying the version and location of the Command Central CLI	You can now display the version and location of the Command Central CLI by running the following CLI command: `sagcc --version`
Support for strong key exchange methods for securing SSH connections	Command Central now supports the following strong key exchange methods, which are enabled by default (listed in order of priority): diffie-hellman-group14-sha256 (highest), diffie-hellman-group16-sha512, diffie-hellman-group18-sha512, diffie-hellman-group14-sha1 (lowest).

Added Item	Description
`com.softwareag.platform.management. client.remoteaccess.allowedkexmethods`	A server system property for OSGI-CCE that controls the list and priority of key exchange methods allowed by Command Central for securing remote SSH connections.
`verbose: true|false`	New parameter in the `actions:` section of a template that indicates whether Command Central should include the standard output from the shell actions defined in the template in the Command Central logs.

Changed Item	Description
`sagcc exec templates composite generate`	The command now generates an infrastructure micro template from the Platform Manager instance in an installation, or a migration template from an installed product instance using the new `options=INFRASTRUCTURE` argument.
Plus icon on the Stacks home page	From the plus icon on the Stacks home page in the Command Central web user interface, you can now select to "Auto-create stacks" or "Create a stack from scratch".
Reports icon in Licensing > Reports in the Command Central web user interface	After clicking the plus icon, and clicking **Create License Manifest Report**.
Return codes from CLI command execution	The return codes that can result from executing a Command Central or Platform Manager CLI command have been updated.
Key exchange methods	The following key exchange methods are now disabled by default, because they are weak: • diffie-hellman-group1-sha1 • diffie-hellman-group-exchange-sha1

Deprecated Item	Replacement, if any
.exe file of the Command Central bootstrapper	Use the .bat file to install Command Central on a Windows operating system.

Deprecated Item	Replacement, if any
License metering, including license reports and snapshot reports and all related CLI commands. • `sagcc create license-tools reports snapshot` • `sagcc delete license-tools reports snapshot` • `sagcc delete license-tools reports snapshot <reportid>` • `sagcc list license-tools reports snapshot` • `sagcc get license-tools reports snapshot <reportid>` • `sagcc get license-tools reports snapshot output PDF` • `sagcc get license-tools reports snapshot output XML` • `sagcc list license-tools reports` • `sagcc list license-tools metering products` • `sagcc get license-tools metering contracts licensekey` • `sagcc list license-tools manifests contracts`	
License manifest files and all related CLI commands. • `sagcc add license-tools manifests` • `sagcc delete license-tools manifests` • `sagcc get license-tools manifests output xml` • `sagcc list license-tools manifests` • `sagcc list license-tools manifests content`	

Removed Item	Description
Aggregated reports and all related CLI commands:	The following commands are removed from the CLI: `sagcc list license-tools reports aggregated` `sagcc add license-tools reports aggregated` `sagcc delete license-tools reports aggregated <reportid>` `sagcc delete license-tools reports aggregated` `sagcc exec license-tools metering` `sagcc get license-tools metering state`

Release 10.5

Added Item	Description
`--base64-pass`	A new argument in the bootstrap installer for Windows to specify a password containing special characters, for example ampersands (&).
`sagcc exec security encrypt password`	The command encrypts user passwords using the environment or global shared secret configured in Command Central.
Support for encrypted passwords	Command Central now supports using encrypted passwords in templates and the CLI.
Import parameters from file in the Stacks view	When you add or update a layer in a stack, you can import a template properties file to set the layer properties.
Export layer properties from the Stacks view	When you add or update a layer in a stack, you can export the properties set for the layer in a template properties file. Password properties in the exported file are encrypted.

Added Item	Description
Export Instance to Template wizard	In the Command Central web user interface, you can now export a product instance from a managed installation to a run-time micro template by navigating to the required instance on the Instances tab and clicking **Export** > **Export runtime**. Command Central generates a template with the product instance data, imports the generated template automatically, and creates a layer type definition for the template.
Export Database to Template wizard	In the Command Central web user interface, you can now export the database components and schemas configured for the products in an installation to a database micro template by navigating to the Platform manager instance on the node where the Database Component Configurator is installed and clicking **Export** > **Export database**. Command Central generates a template with Database Component Configurator products and database actions, imports the generated template automatically, and creates a layer type definition for the template.
`sagcc exec templates composite generate alias=templateAlias nodeAlias=<nodeAlias> options=DATABASE db.url=<JDBC_URL> db.name=<name> db.username=<username> db.password=<password> db.type=<type> [overwrite={true|false}] [dbUseComponentsLatestVersion={true|false}] [createLayerType={true|false}] -s <local_CCE_URL>`	The command exports the products and actions for the specified database to a database micro template.
Database micro template	A micro template that is used for defining the database components and schemas configured for a product.
`environment.mode=maintenance`	Use to install Database Component Configurator fixes and running database schema migration using a template.
New database layer	Create a new database layer in a stack from the **Add layer** drop-down box of the Stacks view based on a database layer type definition.

Added Item	Description
Existing database layer	Create a database layer in a stack from the **Add layer** drop-down box of the Stacks view based on the DATABASE-EXISTING layer type definition.
DATABASE-EXISTING layer type definition	A default layer type definition for creating a database layer for existing environments.
DATABASE layer type	A layer type for creating a database layer definition.
Templates view	You can now view and manage all templates that are registered in your Command Central installation through the Templates view in the web user interface.
Import template button	You can now register templates in your Command Central installation by using the import template button in the new Templates view in the web user interface.
Default templates repository	In the Command Central web user interface, you can now connect to the default templates assets repository located at https://github.com/SoftwareAG/sagdevops-templates-repo To connect to the repository, navigate to Repositories > Assets and click **Add repository** > **Connect to Software AG Repositories**. Command Central imports the template assets and creates a layer type definition for all templates used in one of the layer type definitions in the "sag-cc-layer-defs" template.
`sagcc exec templates composite import repository`	Imports all or selected assets from a template asset repository registered in a Command Central installation.
Delete stack	You can delete a stack through the web user interface by clicking the three dots in the upper right corner of the stack and then **Delete**.
Delete layer	You can delete a layer through the web user interface by clicking the layer, clicking the three dots in the upper right corner of the layer page, and then **Delete**.

Added Item	Description
`sagcc update stacks index`	Updates the position of the stack in the user interface by updating the stack index number.
`sagcc update stacks layers index`	Updates the position of the layer in the user interface by updating the layer index number.

Changed Item	Description
Automated migration	The following Command Central configurations and data are now migrated when you upgrade Command Central: ▪ Outbound SSL configuration ▪ LDAP certificates ▪ Command Central bootstrap installers ▪ Customized Java system properties
`sagcc exec templates composite generate alias=<templateAlias> nodeAlias=<nodeAlias> runtimeComponentId=<runtimeComponentId> options=FIXES`	The command now generates a template with fixes and patches parameters that list the installed fixes on the source installation if the source installation is version 10.5.
`sagcc list stacks`	The command now returns the index number of the stack, which indicates the position of the stack in the web user interface.
`sagcc list stacks layers`	The command now returns the index number of the layer, which indicates the position of the stack in the web user interface.
`sagcc delete stacks`	Added the `[deleteLayers={true|false}]` argument that specifies whether layers from the stack will be deleted.
`sagcc delete stacks layers`	The command now does not allow deleting the infrastructure layer before deleting all other layers in the stack.
`snapshot` option	The `snapshot` template option that indicates whether to create a template from each source node is now set to `false` by default.

Removed Item	Description
CLI provisioning assets commands	The following commands are removed from the CLI: ▪ `sagcc exec provisioning assets install` ▪ `sagcc exec provisioning assets uninstall` ▪ `sagcc list provisioning assets supportedcomponents`

Release 10.4

Added Item	Description
`dslVersion="1.2"`	Beginning with 10.4, Command Central supports DSL version 1.2, which includes a new section and new parameters.

`options:`
  `abortOnConfigFailure: true|false`
  `abortOnLayerStartupFailure: true|false`
  `forceRestartWhenDone: true|false`
  `startupLayers: true|false`
	Supported only with DSL version 1.2. New section and parameters that modify how Command Central processes a template at the time of applying the template. See the Command Central Help for details about the new section and parameters.

`skipOnTemplateError: true|false`	New parameter in the `actions:` section of a template to indicate whether Command Central executes the action if applying the template fails with an ERROR status.
`namePrefix: hexTimestamp | none`	New parameter in the `actions:` section of a template to indicate whether Command Central adds a prefix to the names of action files created on the file system.
`sagcc list templates composite properties`	The command retrieves a list of all environment properties defined in an `environments:env.type:` section in a template.
`sagcc get license-tools keys {-o|--output} <filename.zip>`	The command retrieves the contents of all license key files that are added to the Command Central license key manager and adds them in a zip archive file.

Added Item	Description
`sagcc list provisioning products uninstall dependencies`	The command returns a list of all products that depend on the specified product(s).
`sagcc list provisioning fixes uninstall dependencies`	The command returns a list of all fixes that depend on the specified fix(es).

Changed Item	Description
Monitoring of the apply job status for a template	If a sub-job of the main composite template apply job fails, the failure of the sub-job causes the main template apply job to fail with an ERROR.
Jobs view in the Command Central web user interface	- Only one Jobs view exists now, which includes all functionalities of the legacy Jobs view. - Navigation is improved. - The Jobs page provides a simplified view with all running jobs. - Error reporting is enhanced.
Optimizing run-time component lifecycle operations during the execution flow of composite template application on nodes with version 10.3 and higher	- By default, all run-time components are no longer restarted at the end of the composite template execution. - Run-time components are restarted during a layer application only if a configuration that requires a restart is applied in that layer. - All stopped components are started at the end of a layer application.
`sagcc exec templates composite generate`	The command generates a run-time micro template from an installed product instance using input parameters, imports the generated template automatically and creates a layer type definition for the template in the local Command Central installation. New arguments: `[options=CONFIGURATION][options=INSTANCE][options=PRODUCTS][options=FIXES]` `[createLayerType={true|false}]`

Changed Item	Description
`sagcc exec templates composite generate input`	The command generates a run-time micro template from an installed product instance using a template metadata file. In the template metadata file, you can filter which configuration properties of the product instance to include in the generated template. New argument: `[createLayerType={true|false}]`
`sagcc exec templates composite apply <templateAlias> --sync-job -e <expectedStatus>`	The command sets a: ▪ Non-zero exit code if the expected status value is not retrieved. ▪ Zero exit code if the expected status value is successfully retrieved.
Template application failure	Based on the value of the new `abortOnConfigFailure` parameter, Command Central determines whether to stop applying a template after a product configuration fails to apply.
Encrypting properties in a custom cc.properties file	When you prefix a property in a custom cc.properties file with `@secure`, Command Central encrypts the value of the property after you run a CLI command that uses the custom cc.propeties file.
LDAP connection validation	In the Command Central web user interface, you can now verify the LDAP connection using the credentials of a real LDAP user account, in addition to testing the LDAP connection with the technical user DN.
Connecting to repositories over HTTPS	Command Central can register a repository on the HTTP, HTTPS, or both ports based on the version of the Platform Manager installation, the repository type, and whether the HTTP and HTTPS ports are enabled. See the Command Central Help for details.
License reporting field	Enhanced the **License reporting** field on the Overview tab for a product instance in the Command Central web user interface.
Licensing > Reports	Streamlined the Licensing > Reports page in the Command Central web user interface.

Changed Item	Description
`sagcc list administration product <node_alias> DatabaseComponentConfigurator database migrations db.type=db_type {product|component}=productID|componentID`	Not supported for local or remote nodes with version 10.4 or higher.
`sagcc list jobmanager jobs` command output	`Status As String` column renamed to `Status Description` - The default output contains the following columns: `ID`, `Status Progress`, `Description`, `Progress Description`, `Status Description`. - If a custom status was set when the template execution job was completed, the command output displays the custom status and its description in the `Status` and `Status Description` columns. - If the template execution job is still in progress or it was completed with no custom status, the command output displays the system status and its description in the `Status` and `Status Description` columns. - The `Duration` and `Links` columns are removed from the default output. To display the columns, add the `properties=*` argument when running the command.

Removed Item	Description
Legacy Jobs view	Removed from the Command Central web user interface. The functionality is now covered by the Jobs view in the Stacks user interface.
`DataMap` column	Removed the specified column from the output of the `sagcc list jobmanager jobs` command.

Added Item	Description
Command Central composite assets	Command Central exports configuration properties for Software AG run-time components as YAML templates. You can generate composite assets from YAML templates using: ▪ Designer (to deploy to Integration Cloud) ▪ Asset Build Environment ▪ `sagcc get templates composite export templateAlias {--output | -o} filename.zip [{--output-format | -f} application/vnd.sagcc.asset+zip]` You can store the Command Central composite assets in a local or remote Landscape Asset Repository (LAR) and deploy them on Software AG run-time components running on premise, or on webMethods Integration Cloud.
`sagcc exec templates composite generate`	Generates run-time component configurations as a template YAML file.
`sagcc exec templates composite generate input`	Generates run-time component configurations as a template YAML file, based on an input template metadata file.
`application/vnd.sagcc.asset+zip`	Content type for Command Central composite assets.
`application/yaml`	Content type for YAML files.
`sagcc exec repository mirror validateContent`	Validates the integrity of a mirror repository against the source repository.
`com.softwareag.platform.management. client.fix.mirror.platform.validati on=false`	Disable validating whether a source fix repository (from which you want to create a mirror repository) includes all of the platforms in the product repository you select as a filter.
`com.softwareag.platform.management. client.template.composite.skip.rest art.for=<componentID>`	Indicates whether to bypass the restart of a specific run-time component at the end of the composite template application.
Fixes to include	In Repositories > Fixes > Create Mirror Repository, use the **Fixes to include** option to select whether to include only the **Latest** fixes or **All** fixes in the fix mirror repository.

Added Item	Description
Command Central default templates library	A library of templates for products that you can install and manage with Command Central, including all supported product configurations. The library is located at https://github.com/SoftwareAG/sagdevops-templates
Provide monitoring data in Prometheus metrics format	Command Central exposes run-time monitoring metrics, which can be consumed by Prometheus when managed containers are deployed in K8S environment.

Changed Item	Description
`sagcc get templates composite export`	Use the command with: ▪ the `-f application/yaml` option to export a template into a YAML file. ▪ the `-f application/vnd.sagcc.asset+zip` option to export a template as a Command Central composite asset zip file.
Create a fix mirror repository for a single operating system	Command Central can create a mirror repository with fixes for a single operating system, based on the platform in the product repository you select as a filter.
Command Central bootstrap installer for Windows	The Command Central bootstrap installer for Windows is now an .exe file.
Jobs view	Streamlined the Jobs view in the Stacks area of the Command Central web user interface
`[artifacts= fixName1[_version], fixName2[_version] | FixId1, FixId2]`	In the artifacts `argument` of the `sagcc exec provisioning fixes install` command, you can specify either the fix names, or the Empower fix IDs.
`fixes: [fix1_v1, ProductCode_10.3_Fix2]|ALL`	In the `fixes:` section of a template, you can list either the fix names, or the Empower fix IDs.
`sagcc add license-tools manifests`	A license manifest file that you add with this command can contain embedded license keys that you register in Command Central when you add the license manifest.

Changed Item	Description
`sagcc list license-tools keys`	The command returns a list of all license keys registered in Command Central, including license keys added individually and license keys added with a license manifest file.
`sagcc delete license-tools keys`	You cannot delete license keys embedded in a license manifest with this command. To delete license keys registered in Command Central with a license manifest file, you must delete the license manifest file using the `sagcc delete license-tools manifests` command.
`sagcc get license-tools reports aggregated [usage|meteringonly] <reportId>`	The command now generates different representations of the aggregated license report.

Release 10.2

Added Item	Description
Command Central Docker Builder	An official Docker image of Command Central on Docker Store: https://store.docker.com/images/softwareag-commandcentral
SSL to connect to master repositories (Empower)	Command Central now uses SSL to connect to master repositories (Empower), managed by Command Central 10.2 and hosted on Platform Manager 10.2, when downloading products and fixes to install in an environment.
General Data Protection Regulation (GDPR) compliance	Included information in the Command Central Help about how to delete Command Central and Platform Manager logs.
Support for new parameters for cross-host product migration	- Enabled products to identify the old hostnames to be replaced with the new host names during migration. - Enabled renaming a product instance during migration (for products supporting instance renaming).

Added Item	Description
`dslVersion: 1.1`	A new parameter in the composite template declaration to indicate the DSL version.

`nodes:`
`    <envType>:`
`      aliasMapping:`
`        policy: INDEX`
`        prefix: ${node.alias.prefix}`
	With DSL "1.1", a new `aliasMapping:policy:` section to enable the mapping of node alias to hosts. When `policy: INDEX`, the `prefix:` parameter specifies a custom prefix to include in the indexed node alias.

`provision:`
`    <envType>:`
`      infrastructure:`
`        hosts: [host1, host2, host3]`
	With DSL "1.1", when `aliasMapping:policy: INDEX`, the first layer in each `provisioning:envType:` section is defined as an infrastructure layer that includes the `hosts` parameter.

`aliases: [my_node_3,my_node_4]` `indexes: [3,4]`	With DSL "1.1", when `policy:INDEX`, each of the layers in `provision:` (except the infrastructure layer) includes the `aliases:` (list of indexed node aliases) or `indexes:` (list of index numbers) parameters.
Context parameters for node aliases	You can refer to a node alias from an inline template in the `templates:` section using one of the parameters listed in the context parameters for DSL "1.1" table in "Templates" in the Command Central Help.
`patches: [patchKey1, patchKey2]`	With DSL "1.1", a new section in `templates:`, in which you specify a list of support patches that you want to install on top of installed fixes.
`"target/licenseKey":` `"*_<productCode>_<majorVersion>.*_${os.platform}"`	The `"target/licenseKey":` `"${alias}"` parameter in the `templates:<templateAlias>:licenses:` section of the composite template supports using wildcard characters when specifying the license key alias.

Added Item	Description
`{--sync-job	-j}`	A new CLI command option to monitor and report progress details while a job is running, and return the job status and status description after the job completes.
`{--retry	-y}[count]`	A new CLI command option to specify the number of times to resubmit the command when Command Central gets restarted during an operation and does not respond within the time interval specified in the `--wait-for-cc` option.
`{--wait-for-cc	-t} [seconds]`	A new CLI option to set the time interval for which the command waits for Command Central to come online after starting or restarting Command Central.

Changed Item	Description
DSL version 1.1	The new version of the DSL has been enhanced with new sections and parameters. See the "Added Items" table for details.
`templates:fixes:`	With DSL 1.1 the following changes apply for the `templates:fixes:` section of the composite templates: ▪ You cannot list support patches in `fixes:` ▪ `fixes:ALL` installs all fixes applicable for products in the inline template and their dependencies.

`sagcc list license tools keys`	Added the following parameters:
	`[release=releaseNumber]`
	`[aliasFilter=filter]`
	`[excludeExpired=true|false]`
	`[nodeAlias=nodealias]`

Added Item	Description
Stacks web user interface and CLI commands	You can now create product layers and build a product stack out of those layers to provision new environments.
Micro templates	The layers in a product stack are created based on the properties defined in a micro template, which is referenced in the layer definition you select for the layer.
	You can find sample micro templates at https://github.com/SoftwareAG/sagdevops-templates
Asset repositories	Flatfile and git asset repositories that you register in Command Central to install assets.
Asset provisioning commands	CLI commands that you use to install/uninstall product assets.
Composite template validation	Composite templates are validated as a first step in the apply composite template operation or using the CLI validate composite templates command.
COMMON-JAAS-REALMS	A new configuration type to use for JAAS realms authentication.
CCE-LAYER-TYPES	A new configuration type for layer definitions.
COMMON-JSW	A new configuration type to use for configuring Java Service Wrapper settings.
Disconnected migration	You can now use disconnected migration (migrate from a source archive) with a composite template.
Exporting product configuration as template snippets	With the Command Central web user interface, you can export product configurations from existing installations as template snippets.
Jobs view	New Jobs view in the Command Central web user interface (with a tree structure for the jobs)
Encrypted proxy authentication for Command Central and Platform Manager	
Automated migration of custom certificates and their configuration for SSO and HTTPS ports.	

Added Item	Description
Importing license keys from a license key archive (zip file).	

Changed Item	Description
Base and Peak Report	Changed to "Product Usage Report for Billing". A new metering type, "Total usage", has been added to the license metering. The "Product Usage Report for Billing" contains both "Base and Peak" and "Total usage" licenses.

Download aggregated report menu items in the Command Central web user interface	Old menu item	New menu item
	PDF	License Inventory PDF
	XML	License Inventory XML
	JSON	License Inventory JSON
	Base&Peak PDF	Product Usage PDF
	Base&Peak XML	Product Usage XML
	Base&Peak JSON	Product Usage JSON

Deprecated Item in template definition	Replacement, if any
In nodes/default/default/bootstrapInfo:	
`repo.spm: repositoryName`	`installer: bootstrapInstallerFileName`
`platform: platformCode`	`installer: bootstrapInstallerFileName`
`userName:`	`credentials: credentialsAlias`
`password:`	
In repositories/fix and repositories/product:	
`userName:`	`credentials: credentialsAlias`
`password:`	

Removed Item	Description
Default composite templates	The default composite templates are now removed from the product and available here: https://github.com/SoftwareAG/sagdevops-9.x-template-samples
Snapshot templates	Removed from the product.

Added Item	Description
Fix ID column in the fix repository details page in the Command Central web user interface	
List of the details available in a specified license manifest	You can use the Command Central web user interface and CLI commands to list details about license manifests, such as type, name, version, and status.
Correlation ID in the logs	You can use the number of the Correlation ID as a search filter when tracing an operation in the Command Central and Platform Manager logs.
"patterns" and "except" parameters	With the two new optional parameters, added in the migration/options/backup/excludes section of the composite template definition, you can select which file types to exclude from the source archive in a more granular way.
	Also, now the default value of the "excludes" parameter under migration/backup is "*.log".
Fix Repository ID	• You can use the fix repository ID to select a repository in the instance creation wizard in the Command Central web user interface.
	• When creating instances of Integration Server and My webMethods Server with the "sagcc create instances" command, you can use the fixRepository=*repo_ID* argument to ensure that all required fixes are applied on all product instances.
	• When applying a composite template, the template now automatically re-applies fixes after a product instance is created.
`${node.host}` `${node.alias}` `${src.node.host}` `${migration.type}`	Added context parameters that you can define in a `templates:<templateAlias>:` section of the composite template definition.
COMMON-CREDENTIALS	A new configuration type to add and store the user credentials for a specific alias.

Added Item	Description
sagcc list repository products languages	Lists language packs available for the products in the repository.

Changed Item	Description
LDAP configuration	Added validation of the LDAP configuration settings in the Command Central web user interface.
sagcc update repository	Each type of product or fix repository (master, mirror, and image) now has a separate syntax for the update repository command. For details, see the Command Central Help.

Removed Item	Description
System Properties	On the Configuration tab in the web user interface, the System Properties configuration is replaced by Java System Properties.
sagcc exec repository register	

Release 9.12

Added Item	Description
Cross-site-request forgery prevention	Protected the Command Central web user interface against cross-site-request forgery attacks.
Web user interface instance creation wizard	Creates, updates, or deletes instances of Integration Server, My webMethods, Universal Messaging, and Apama for installations of release 9.12.
Instructions and tooltips	The wizards and screens of the Command Central web user interface have been enhanced with new instructions and tooltips.

Added Item	Description
Web user interface product installation wizard	Installs products of release 9.8 or higher. You must consider the following when using this wizard: ▪ Use mirror or master repositories. The product installation wizard does not support image repositories. ▪ For installations of release 9.10 or higher, installing a Platform Manager product plug-in automatically restarts Platform Manager to activate the plug-in. For earlier releases, Platform Manager is not restarted automatically and you should use the ALL distribution (which includes all product plug-ins) or restart Platform Manager manually. ▪ Checking for dependencies is not supported for older releases, which is indicated by a warning. ▪ Installing language packs is supported only for installations of release 9.12. ▪ Use the Software AG Installer to install products of release 9.7 and earlier.
sagcc get templates composite export	Exports an existing composite template into a zip archive.

Changed Item	Description
Command Central bootstrap installer	Added support for the HP-UX and IBM AIX operating systems.
Logs	The Command Central logs are now reduced in number and made easier to read and understand.
Product and fix repository wizards	Streamlined and enhanced repository wizards to support browsing and searching the repositories.
Template-based provisioning enhancements	Enabled migration of existing environments to a different host, using a live or cloned database.

Changed Item	Description
Command Central REST API	▪ Improved performance and memory usage.
	▪ A single WADL document for the Command Central REST API services. The document is located at http(s)://<ccehost>:<cceport>/cce/application.wadl

Removed Item	Description
Create/apply snapshot templates wizards in the Command Central web user interface	Use composite templates to provision existing installations with version 9.8 or higher.
Event Routing	Removed Event Routing from the Command Central bootstrap installer.

Release 9.10

Added Item	Description
dbc	A new default composite template that installs the Database Component Configurator (DBC) on a local or remote installation and uses DBC to create a new database on a supported database server.
Configuration types	The COMMON-JVM-OPTIONS configuration type to configure extended options for JVM.
Command Central bootstrap installer	- New custom options for the Command Central bootstrap installer: -D and -H
	- Migrating an existing Command Central installation
CLI administration commands	Commands that perform custom administrative tasks for managed products.
Fix mirror repositories	Creating and updating fix mirror repositories, using the Command Central web user interface and CLI repository commands.
License keys	Adding and managing product license keys.
Login page and logout link	The Command Central web user interface now uses form-based login page and has a logout link.

Added Item	Description
Template-based provisioning enhancements	The following enhancements were added in the composite templates:
	- use composite templates to migrate existing environments
	- customize migration options by adding an optional "migration" section in a composite template definition
	- define shell actions that a composite template executes at different points in the apply composite template operation
"environment.mode" parameter	Added in the "cc exec templates composite apply" command to specify whether the composite template will provision or migrate the environment.
Migrate products using composite templates and the Command Central CLI	▪ Migrate Integration Server, My webMethods Server, and Universal Messaging using composite templates and the CLI composite template commands.
	▪ Migrate Integration Server, My webMethods Server, and Universal Messaging instances using the CLI administration commands.
Universal Messaging JNDI management	Configure Universal Messaging connection factories and destinations in a JNDI namespace using the Command Central web user interface or command line interface.

Deprecated Item	Replacement, if any
COMMON-MEMORY	Deprecated for configuring extended options for JVM. Use COMMON-JVM-OPTIONS.
Snapshot templates create and apply web user interface and CLI commands	Use composite templates to provision existing environments with version 9.8 or higher
Emitting XML-based events using Event Routing	

Platform Manager

Release 10.11

Changed Item	Description
Platform Manager plug-ins	Updates in the plug-ins for: ▪ Integration Server ▪ Optimize Analytic Engine

Release 10.7

Added Item	Description
Migrating Platform Manager using a template	You can migrate the configurations of Platform Manager version 10.7 using a template.

Changed Item	Description
Automated migration	The following Platform Manager configurations and data are now migrated when you upgrade Command Central: ▪ Port, SSO, and proxy configurations ▪ HTTPS and SSO certificates ▪ Users, groups, and roles, and password manager data ▪ Customized Java system properties
Platform Manager plug-ins	Updates in the plug-ins for: ▪ Business Rules ▪ Integration Server and Microservices Runtime ▪ BigMemory ▪ Universal Messaging

Added Item	Description
Support for encrypted passwords	Platform Manager is now able to decrypt encrypted passwords.
Removing configuration instances when deploying assets	Platform Manager now enables removing configuration instances from deployed assets.
New KPIs for assets deployed to Integration Cloud	The following KPIs are now available:

The following KPIs are now available:

- `restartRequired` - when set to `true` for a deployed run-time component, the component is restarted

- `deploymentTinted` - `true` if any deployment from a pod resulted in an error. The whole pod from the cluster is restarted when `deploymentTinted=true`.

Changed Item	Description
Automated migration	Automated migration is enhanced. The following Platform Manager configurations and data are now migrated when you upgrade Command Central:

- Port, SSO, and proxy configurations

- HTTPS and SSO certificates

- Users, groups, roles, and password manager data

- Customized Java system properties

Automatic restart of run-times when deploying assets	Platform Manager does not restart all run-times during asset deployment but only the run-times that have `disableAutoRestartOfRuntimes=false` set in the ACDL file.
Platform Manager plug-ins	Updates in the plug-ins for:

- API Gateway

- Integration Server and Microservices Runtime

Release 10.4

Added Item	Description
`lar.log`	Contains messages generated from the Landscape Asset Repository (LAR).

Changed Item	Description
Platform Manager plug-ins	Updates in the plug-ins for: ▪ Integration Server ▪ Universal Messaging
Re-starting products after applying product configuration using a composite template	When applying a template for product installations 10.3 or higher, Platform Manager restarts only the run-time components in a layer that report PENDING_RESTART status after Command Central applies the configuration settings defined for those run-time components in the template.
Deploying assets with dependencies	When deploying assets on a target installation Platform Manager always installs: ▪ The product assets before installing the configuration assets. ▪ The dependent assets before installing the main asset. If a dependent asset is already installed, Platform Manager does not re-install it.

Release 10.3

Added Item	Description
Platform Manager plug-ins	▪ Zementis Integrated Server ▪ Task Engine on Integration Server ▪ AgileApps Server

Added Item	Description
Pull deployment from asset repositories	Platform Manager can be configured to listen and pull assets when changes are detected in an asset repository, and then deploys the assets automatically on product instances.
Processing and applying YAML composite templates	Platform Manager can pull Command Central assets (YAML template files with product configurations) from an asset repository and deploy the templates on product instances running in containers on Integration Cloud.
Provide monitoring data in Prometheus metrics format	Platform Manager exposes run-time monitoring metrics, which can be consumed by Prometheus when managed containers are deployed in K8S environment.
syscap UNIX shell script	Collects system information that you use when troubleshooting issues.

Release 10.2

Added Item	Description
Platform Manager plug-ins	▪ Microservices Runtime ▪ MashZone NextGen Event Service (RTBS)

Release 10.0

Added Item	Description
Logs	The Platform Manager logs are now reduced in number and made easier to read and understand.
Correlation ID in the logs	You can use the number of the correlation ID as a search filter when tracing an operation in the Command Central and Platform Manager logs.

Deprecated Item	Replacement, if any
COMMON-SYSPROPS	COMMON-JAVASYSPROPS

Release 9.12

Added Item	Description
Platform Manager plug-ins	▪ Platform Manager plug-in for ActiveTransfer ▪ Platform Manager plug-in for PPM

Release 9.10

Added Item	Description
Platform Manager plug-ins	Platform Manager plug-in for Apama.
Configuration types	The COMMON-JVM-OPTIONS configuration type to configure extended options for JVM.
CLI administration commands	Commands that perform custom administrative tasks for managed products.

Deprecated Item	Replacement, if any
COMMON-MEMORY	Deprecated for configuring extended options for JVM. Use COMMON-JVM-OPTIONS.

9.0   Added, Removed, Deprecated, or Changed APIs

A release is listed in this section only if changes occurred in that release.

Command Central

Release 10.11

Changed API	Description
Command Central REST API	Enhanced the following services: ▪ Provisioning ▪ Stacks ▪ Security

Release 10.7

Changed API	Description
Command Central REST API	Enhanced the following services:

- License Tools
- Repository
- Inventory
- Provisioning
- Monitoring

Release 10.4

Changed API	Description
Command Central REST API	Enhanced the following services:

- Monitoring
- Template
- License Tools
- Security

Release 10.3

Changed API	Description
Command Central REST API	Enhanced the following services:

- Repository
- Monitoring
- Template
- License Tools

Release 10.2

Changed API	Description
Command Central REST API	With DSL 1.1, enhanced the Template service with new sections.

Release 10.1

Changed API	Description
Command Central REST API	▪ Added the Stacks service that you use to create stacks and layers. ▪ Enhanced the following services: ▪ Repository (added assets repositories) ▪ Provisioning (added install/uninstall assets) ▪ Template (added validate a template) ▪ License Tools (enhanced base and peak license inventory and report commands)

Release 10.0

Changed API	Description
Command Central REST API	Refactoring of the Repository service

Platform Manager

Release 10.7

Changed API	Description
Platform Manager REST API	Enhanced the following services: ▪ Inventory ▪ Provisioning

Release 10.5

Changed API	Description
Platform Manager REST API	Enhanced the following services: ▪ Security ▪ Provisioning

Release 10.4

Changed API	Description
Platform Manager REST API	Enhanced the following services: ▪ Monitoring ▪ Template ▪ Repository

Release 10.3

Changed API	Description
Platform Manager REST API	Enhanced the following services: ▪ Monitoring ▪ Repository

10.0 Copyright Information

Products / Copyright and Trademark Notices of Software AG Products". These documents are part of the product documentation, located at https://softwareag.com/licenses and/or in the root installation directory of the licensed product(s).

11.0 Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the Tech Community website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

CC-PM-RM-1011-20211015

webMethods Composite Application Development 10.11 Readme

October 2021

This file contains important information you must read before using webMethods Composite Application Development 10.11. You can find system requirements, user documentation, and installation and upgrade instructions on the [Documentation website](#) or the [TECHcommunity website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0   Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0 Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

3.0 Usage Notes

This section provides any additional information you need to work with the current release of this product.

- When creating a JavaEE project in Designer, make sure that the project compile level is set to version 1.8 or earlier.

4.0 Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Release 10.11

- DES_10.5_CAD_Fix7
- DES_10.3_CAD_Fix5
- DES_10.1_CAD_Fix6
- DES_10.0_CAD_Fix3
- DES_9.12_CAD_Fix6
- DES_9.10_CAD_Fix3

Release 10.7

- DES_10.5_CAD_Fix6
- DES_10.3_CAD_Fix4
- DES_10.1_CAD_Fix5
- DES_10.0_CAD_Fix3
- DES_9.12_CAD_Fix6

- DES_9.10_CAD_Fix3

Release 10.5

- DES_10.3_CAD_Fix1

- DES_10.1_CAD_Fix6

- DES_10.0_CAD_Fix3

- DES_9.12_CAD_Fix6

- DES_9.10_CAD_Fix2

Release 10.4

- DES_10.1_CAD_Fix3

- DES_10.0_CAD_Fix3

- DES_9.12_CAD_Fix5

- DES_9.10_CAD_Fix2

Release 10.3

- DES_10.1_CAD_Fix2

Release 10.2

- DES_10.1_CAD_Fix1

- DES_10.0_CAD_Fix3

- DES_9.12_CAD_Fix3

Release 10.1

- DES_10.0_CAD_Fix2

Release 10.0

- DES_9.12_Fix1

- DES_9.9_CAD_Fix2

- DES_9.8_CAD_Fix3

- DES_9.7_Fix3

Release 9.12

- DES_9.10_Fix2

- DES_9.9_CAD_Fix1

- DES_9.8_CAD_Fix2

- DES_9.6_CAD_Fix5

- DES_9.5_SP1_CAD_Fix2

Release 9.10

- DES_9.8_CAD_Fix1

- DES_9.7_CAD_Fix2

- DES_9.0_SP1_CAD_Fix1

5.0   Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Release 10.7

- WMC-5087
  When displaying week numbers, the Composite Application Framework Date Input control does not conform to the ISO 8601 standard for Spain and Germany.

  The issue is resolved. Now the CAF Date Input Control is compliant to ISO 8601 numbering, where the first week of a year is the first week in January that includes a Thursday. Applies based on the preferred language/locale for the current user.

Release 10.4

- WMC-4577
  My webMethods Server fails to open PDF files in a new tab. This issue occurs when using My webMethods in Internet Explorer 11 and Mozilla Firefox.

The issue is resolved.

- WMC-4724
  My webMethods Server might log ClassNotFoundException error messages when using Universal Messaging to transport custom CAF events.
  When creating applications with custom CAF events, the Composite Application Framework might fail to insert the webAppID in the event source and cause ClassNotFoundException exception messages in the My webMethods Server log when the server attempts to fire the events at runtime. This issue occurs when you use Universal Messaging for the JMS provider.
  The issue is resolved.

Release 10.3

- WMC-3951
  Installing a Composite Application Framework fix fails when the fix applies to multiple components, but the installation does not have all the components installed.
  The fix installation rolls back because it expects all components that the fix addresses to be present in the installation directory.
  The workaround is to install the missing components before installing the fix.

Release 10.0

- WMC-4039
  In Software AG Designer, validation of xmlImport files fails for CAF projects that do not contain portlets.
  The Problems tab for a project displays the following error: "Referenced file contains errors (http://www.webmethods.com/schema/xmlImport.xsd)."
  The issue is resolved.

- WMC-4059
  When using My webMethods in Internet Explorer, the CAF Toggle Tab control might cause increasing memory consumption.
  The issue is resolved.

Release 9.12

- MWS-16031
  The time zone of the CAF Date Range Input control does not match a My webMethods user's preferred time zone.
  When a Date Range Input control is added to a portlet, the time zone of the Date Range Input control does not match the user's preferred time zone when the user's time zone uses daylight savings time.
  The issue is resolved.

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.1

- *webMethods CAF and OpenCAF Development Help* is renamed *webMethods CAF and OpenUI Development Help*.

- The topic "Working with Business Console Gadgets" is moved to a new Eclipse help set, *Working with Business Console Gadgets Help*.

Release 9.12

- *webMethods CAF Development Help* is renamed *webMethods CAF and OpenCAF Development Help*.

- A new topic, "Developing OpenCAF Applications", is added to *webMethods CAF and OpenCAF Development Help*. The topic provides an overview of the main OpenCAF functions as well as information about additional resources for developing OpenCAF applications.

Release 9.10

A new topic, "Working with Gadgets", has been added to the *webMethods CAF Development Help* online help and PDF guide.

7.0   Terminology Changes

A release is listed in this section only if changes occurred in that release.

Release 10.1

Old Term	New Term
OpenCAF	webMethods OpenUI
	OpenUI

8.0   Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 10.5

Deprecated Item	Replacement, if any
Support for the legacy CAF portlet .view file format	Default JSF 2.x xhtml files for new projects.

Added Item	Description
Default support for JSF 2.x xhtml Facelet Templates in new CAF/Task projects	All new portlet applications created with Composite Applications Development now support JSF 2.x xhtml Facelets by default. New portlet view files are generated with a default .xhtml extension, instead of .view extension. You can create legacy .view files by specifying the file name extension explicitly.

Release 10.3

Changed Item	Description
Gadget Development	The UI Development node under Composite Applications in Installer no longer installs Gadget Development. To be able to develop Business Console gadgets, you must select Gadget Development under Composite Applications.

Release 10.2

Removed Item	Replacement, if any
Support for Axis 1.4, which is used for exposing web services from My webMethods Server, is removed.	Now My webMethods Server web services use Axis 1.7.7

Release 9.12

Deprecated Item	Replacement, if any
Support for Axis 1.x, which is used for exposing web services from My webMethods Server, is deprecated.	
Support for using webMethods Glue to create web service connectors in CAF and OpenCAF applications is deprecated.	WS-Stack Client library

Release 9.10

Added Item	Description
Drag And Drop File Input CAF control	Replaces the Drag And Drop applet.
Client-side validation support for the CAF File Validator	With the recent HTML5 changes in browsers, it is now possible to perform client-side validation of the value specified in the file input element.
	Client-side validation prevents uploading the wrong type of file to the server or uploading files that are too large.
	The browsers that support this capability are:
	Google Chrome version 6.0 and higher Internet Explorer version 10.0 and higher Firefox version 3.6 and higher
	For browsers that do not support HTML5, server-side validation would have to be performed instead.

Added Item	Description
Support for the "multiple" attribute in the File Input CAF control	With the "multiple" attribute enabled, you can select and upload more than one file using the File Input control.
	When the "multiple" attribute is enabled, the value of the control should be bound to a List<Part> object.
	The browsers that support this capability are:
	Google Chrome version 6.0 and higher Internet Explorer version 10.0 and higher Firefox version 3.6 and higher
	If using other browsers, you can select only a single file through the File Input control.
Support for standard JavaServer Faces (JSF) 2 methods to do Ajax requests	CAF used a proprietary technique for performing partial page updates (Ajax) before the JSF standard offered support for Ajax requests. Now CAF supports the JSF 2.x standard for doing Ajax requests, replacing the proprietary technique.
webMethods Task Development now supports the String List data type when you configure task assignees with a webMethods Business Rules decision table in Software AG Designer.	You can assign a task to multiple user IDs by using a String List in the assignee field of your IS document type. For more information about working with task assignments, see *webMethods BPM Task Development Help*.

Changed Item	Description
The Attachments List CAF control has been improved.	The changes to the Attachments List control include replacing the Java applet-based drag and drop panel with an HTML5-based equivalent.
The SOAP Monitor, Color Picker, and File Attachment applets have been converted to CAF components.	In more recent versions of Chrome and Firefox applets are disabled by default and must be manually enabled. Applets represent security risks.

Changed Item	Description
The CAF project classpath has been simplified.	When you create a new portlet application or web application project in Software AG Designer, on the JSF Capabilities page of the new project wizard, selecting the **CAF Libraries** JSF implementation library now displays the following message: 'The targeted "My webMethods Server" runtime will contribute the libraries required by this facet to the project classpath.'
	Also, when you specify project properties by right-clicking the project and going to **Properties > Project Facets > Java Server Faces > CAF Libraries**, the properties wizard displays the same message.
	To clean up the project classpath for existing projects, right-click the project and go to **CAF Tools > Repair CAF Project**.

Deprecated Item	Replacement, if any
Applet CAF control	

9.0   Added, Removed, Deprecated, or Changed APIs

A release is listed in this section only if changes occurred in that release.

Release 10.11

Added API	Description
com.webmethods.caf.faces.url.InMemoryStreamHandler: Class com.webmethods.caf.faces.url.InMemoryStreamHandler added	
com.webmethods.common.thread.ThreadExecutor: Class com.webmethods.common.thread.ThreadExecutor added	
com.webmethods.common.thread.ThreadExecutorFactory: Class com.webmethods.common.thread.ThreadExecutorFactory added	
com.webmethods.portal.framework.presentation.util.ResponseHeaderRulesResolver: Class com.webmethods.portal.framework.presentation.util.ResponseHeaderRulesResolver added	
com.webmethods.portal.service.dir.IPasswordPolicyType: Class com.webmethods.portal.service.dir.IPasswordPolicyType added	

com.webmethods.portal.service.sql.core.CachedSqlWorker: Class
com.webmethods.portal.service.sql.core.CachedSqlWorker added

com.webmethods.portal.service.sql.runtime.oracle.UpdateSequenceUtil: Class
com.webmethods.portal.service.sql.runtime.oracle.UpdateSequenceUtil added

com.webmethods.portal.system.init.dbsync.DBLocation: Class
com.webmethods.portal.system.init.dbsync.DBLocation added

com.webmethods.portal.system.init.dbsync.IDatabaseService: Class
com.webmethods.portal.system.init.dbsync.IDatabaseService added

com.webmethods.portal.system.init.dbsync.IDatabaseSynchronizer: Class
com.webmethods.portal.system.init.dbsync.IDatabaseSynchronizer added

com.webmethods.portal.system.init.dbsync.IModifier: Class
com.webmethods.portal.system.init.dbsync.IModifier added

com.webmethods.portal.system.init.dbsync.ITableMigrator: Class
com.webmethods.portal.system.init.dbsync.ITableMigrator added

com.webmethods.portal.system.init.dbsync.dto.SynchronizableColumn: Class
com.webmethods.portal.system.init.dbsync.dto.SynchronizableColumn added

com.webmethods.portal.system.init.dbsync.dto.SynchronizableColumn$Builder: Class
com.webmethods.portal.system.init.dbsync.dto.SynchronizableColumn$Builder added

com.webmethods.portal.system.init.dbsync.dto.SynchronizableTable: Class
com.webmethods.portal.system.init.dbsync.dto.SynchronizableTable added

Removed API	Replacement, if any
com.webmethods.portal.service.sql.runtime.mysql.SetThingDates: Class com.webmethods.portal.service.sql.runtime.mysql.SetThingDates removed	

Changed API	Description
com.webmethods.caf.faces.config.CafAnnotationProvider: Accessibility of method 'protected void processBundle(org.osgi.framework.Bundle, java.util.Set)' has been decreased from protected to private	
com.webmethods.portal.bizPolicy.command.install.InstallComponent: Accessibility of field allowedFileExtensions has been increased from private to protected	
com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Added protected field deployMap	
com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Added protected field deployMapFile	
com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Added protected field m_workDir	

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Accessibility of field allowedFileExtensions has been increased from private to protected

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Removed field containerDeployMap

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Removed field containerDeployMapFile

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Accessibility of method 'protected void checkInstall(java.util.List, java.nio.file.Path, java.util.Map, java.lang.String)' has been decreased from protected to private

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Accessibility of method 'protected void checkUninstall(com.webmethods.portal.bizPolicy.IContext, java.util.List, java.util.Map, java.lang.String)' has been decreased from protected to private

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Method 'public java.util.Set getAllowedFileExtensions()' has been removed

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Method 'public void syncAppsFolder(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.bizPolicy.command.ICommandBean)' has been removed

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Method 'protected void transferToDeployDir(java.io.File)' has been removed

com.webmethods.portal.bizPolicy.command.install.SyncConfigFolder: Field allowedFileExtensions is now non-static

com.webmethods.portal.bizPolicy.command.install.SyncConfigFolder: Accessibility of field allowedFileExtensions has been increased from private to protected

com.webmethods.portal.bizPolicy.command.install.SyncConfigFolder: Method 'public java.util.Set getAllowedFileExtensions()' has been removed

com.webmethods.portal.bizPolicy.command.install.SyncConfigFolder: Method 'public java.lang.Object handle(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.bizPolicy.command.ICommandBean)' has been removed, but an inherited definition exists.

com.webmethods.portal.bizPolicy.command.install.SyncConfigFolder: Method 'public void init(com.webmethods.portal.system.IComponentData, java.lang.String)' has been removed, but an inherited definition exists.

com.webmethods.portal.bizPolicy.command.install.SyncConfigFolder: Method 'public void syncConfigsFolder(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.bizPolicy.command.ICommandBean)' has been removed

com.webmethods.portal.framework.dispatch.IDispatchHandler: Added public field HANDLE_SYSADMIN

com.webmethods.portal.framework.mech.install.StartWebApplications: Added public field

MWS_CURRENT_PHASE

com.webmethods.portal.framework.mech.install.StartWebApplications: Removed field
USE_MULTI_THREAD_STARTUP

com.webmethods.portal.framework.mech.install.StartWebApplications: In method 'protected void
startWebApplications(com.webmethods.portal.service.view.IListView)' the number of arguments has
changed

com.webmethods.portal.framework.session.ISessionHandler: Added public field
SESSION_RESPONSE_HANDLE_SYSADMIN

com.webmethods.portal.service.dir.IDirConstants: Added public field CHANGE_PASS

com.webmethods.portal.service.dir.IDirConstants: Added public field
CHANGE_PASS_SUCCESS_ATTR

com.webmethods.portal.service.dir.IDirConstants: Added public field
CONFIRM_PASSWORD_PARAM

com.webmethods.portal.service.dir.IDirConstants: Added public field IS_SYSADMIN_ATTR

com.webmethods.portal.service.dir.IDirConstants: Added public field NEW_PASSWORD_PARAM

com.webmethods.portal.service.dir.IDirConstants: Added public field
PROPERTY_PASSWORDVALIDUNTIL

com.webmethods.portal.service.dir.IDirConstants: Added public field SKIP_CHECK_AUTH_ATTR

com.webmethods.portal.service.dir.IDirConstants: Added public field SYSADMIN

com.webmethods.portal.service.sql.core.BaseSqlWorker: Method 'public int[]
executeBatchUpdate(java.lang.String, java.util.List, java.lang.Object[], boolean)' has been added

com.webmethods.portal.service.sql.core.ConnectionInfo: Method 'public void
setSqlWorkerClass(java.lang.Class)' has been added

com.webmethods.portal.service.sql.core.ConnectionManager: Added public field
CACHED_DS_NAME

com.webmethods.portal.service.sql.core.ConnectionManager: Added public field EXT_DS_NAME

com.webmethods.portal.service.sql.runtime.base.GetSqlTime: Added public field NAME

com.webmethods.portal.service.sql.runtime.base.GetSqlTime: Added public field UTC_TZ

com.webmethods.portal.service.sql.runtime.base.GetTasksVoted: Method 'public void
setDatabaseRuntime(com.webmethods.portal.service.sql.IDatabaseRuntime)' has been added

com.webmethods.portal.service.sql.runtime.base.GroupAddUpdate: Method 'public java.lang.String
getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.base.RoleAddUpdate: Method 'public java.lang.String
getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.base.SetThingDates: Added public field NAME

com.webmethods.portal.service.sql.runtime.base.SetThingDates: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.base.SubMatchList: Method 'public void setDatabaseRuntime(com.webmethods.portal.service.sql.IDatabaseRuntime)' has been added

com.webmethods.portal.service.sql.runtime.base.SubNew: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.base.TaskAllAttachments: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.base.TaskAllAttachmentsCount: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.base.TaskAllAttachmentsCount: Field QUERY_2 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.base.TaskAllAttachmentsCount: Field QUERY_3 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.base.TaskComments: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.base.TaskComments: Field QUERY_2 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.base.TaskComments: Field QUERY_3 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.base.TaskCommentsCount: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.base.TaskCommentsCount: Field QUERY_2 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.base.TaskCommentsProcess: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.base.TaskCommentsProcess: Field QUERY_2 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.base.TaskCommentsProcess: Field QUERY_3 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.base.TaskListFromInboxes: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesPaged: Method 'protected void generateSqlByTerm(int, java.util.Map, com.webmethods.portal.service.task.TaskSearchQueryTerm, com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo)' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.base.TypeLoad: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.base.UserAddUpdate: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.base.UserGroupAdd: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.base.UserRoleAdd: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.mysql.TaskAllAttachments: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.mysql.TaskAllAttachmentsCount: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.mysql.TaskAllAttachmentsCount: Field QUERY_2 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.mysql.TaskAllAttachmentsCount: Field QUERY_3 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.mysql.TaskComments: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.mysql.TaskComments: Field QUERY_2 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.mysql.TaskComments: Field QUERY_3 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.mysql.TaskCommentsCount: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.mysql.TaskCommentsCount: Field QUERY_2 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.mysql.TaskCommentsProcess: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.mysql.TaskCommentsProcess: Field QUERY_2 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.mysql.TaskCommentsProcess: Field QUERY_3 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.oracle.SubNew: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.oracle.ThingDestroy: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.oracle.UpdateThingCounter: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.system.PortalSystem: Added public field IN_MEMORY_INIT_MODE

com.webmethods.portal.system.boot.PortalBootManager: Method 'public java.lang.Boolean isInMemoryInit()' has been added

com.webmethods.portal.webapp.jetty7.WebXMLRewriter: Accessibility of field FIX_BUNDLE_WEB_XML has been increased from package to public

Release 10.7

Added API	Description
com.webmethods.caf.common.logging.dir.DirectoryLoggingConstants: Class com.webmethods.caf.common.logging.dir.DirectoryLoggingConstants added	
com.webmethods.caf.portalclient.task.task.RecalculationStatus: Class com.webmethods.caf.portalclient.task.task.RecalculationStatus added	
com.webmethods.caf.server.remote.rpcws.encoding.ObjectSerializer: Class com.webmethods.caf.server.remote.rpcws.encoding.ObjectSerializer added	
com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Class com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder added	
com.webmethods.portal.bizPolicy.command.install.SyncConfigFolder: Class com.webmethods.portal.bizPolicy.command.install.SyncConfigFolder added	
com.webmethods.portal.bizPolicy.command.jcr.RepositoryConfigImpl: Class com.webmethods.portal.bizPolicy.command.jcr.RepositoryConfigImpl added	
com.webmethods.portal.bizPolicy.command.jcr.RepositoryInitializer: Class com.webmethods.portal.bizPolicy.command.jcr.RepositoryInitializer added	
com.webmethods.portal.bizPolicy.command.jcr.RepositoryInitializer$Factory: Class com.webmethods.portal.bizPolicy.command.jcr.RepositoryInitializer$Factory added	
com.webmethods.portal.bizPolicy.command.task.GetRecalculationStatus: Class com.webmethods.portal.bizPolicy.command.task.GetRecalculationStatus added	
com.webmethods.portal.bizPolicy.command.task.GetRecalculationStatus$GetRecalculationStatusCommandBean: Class com.webmethods.portal.bizPolicy.command.task.GetRecalculationStatus$GetRecalculationStatusCommandBean added	
com.webmethods.portal.bizPolicy.command.task.StartVoteRecalculation: Class com.webmethods.portal.bizPolicy.command.task.StartVoteRecalculation added	
com.webmethods.portal.bizPolicy.command.task.StartVoteRecalculation$StartVoteRecalculationCommandBean: Class com.webmethods.portal.bizPolicy.command.task.StartVoteRecalculation$StartVoteRecalculationCom	

mandBean added

com.webmethods.portal.bizPolicy.command.task.StopVoteRecalculation: Class
com.webmethods.portal.bizPolicy.command.task.StopVoteRecalculation added

com.webmethods.portal.bizPolicy.command.task.StopVoteRecalculation$StopVoteRecalculationComm
andBean: Class
com.webmethods.portal.bizPolicy.command.task.StopVoteRecalculation$StopVoteRecalculationComm
andBean added

com.webmethods.portal.bizPolicy.command.task.VoteTask: Class
com.webmethods.portal.bizPolicy.command.task.VoteTask added

com.webmethods.portal.bizPolicy.command.task.VoteTask$VoteTaskCommandBean: Class
com.webmethods.portal.bizPolicy.command.task.VoteTask$VoteTaskCommandBean added

com.webmethods.portal.bizPolicy.command.task.jms.GetRecalculationStatusJMS: Class
com.webmethods.portal.bizPolicy.command.task.jms.GetRecalculationStatusJMS added

com.webmethods.portal.bizPolicy.command.task.jms.VoteTaskJMS: Class
com.webmethods.portal.bizPolicy.command.task.jms.VoteTaskJMS added

com.webmethods.portal.bizPolicy.command.task.rs.TaskVotingResources: Class
com.webmethods.portal.bizPolicy.command.task.rs.TaskVotingResources added

com.webmethods.portal.bizPolicy.command.task.webservice.GetRecalculationStatusWS: Class
com.webmethods.portal.bizPolicy.command.task.webservice.GetRecalculationStatusWS added

com.webmethods.portal.bizPolicy.command.task.webservice.GetRecalculationStatusWS$GetRecalculat
ionStatusCommandBean: Class
com.webmethods.portal.bizPolicy.command.task.webservice.GetRecalculationStatusWS$GetRecalculat
ionStatusCommandBean added

com.webmethods.portal.bizPolicy.command.task.webservice.StartVoteRecalculationWS: Class
com.webmethods.portal.bizPolicy.command.task.webservice.StartVoteRecalculationWS added

com.webmethods.portal.bizPolicy.command.task.webservice.StartVoteRecalculationWS$StartVoteReca
lculationCommandBean: Class
com.webmethods.portal.bizPolicy.command.task.webservice.StartVoteRecalculationWS$StartVoteReca
lculationCommandBean added

com.webmethods.portal.bizPolicy.command.task.webservice.StopVoteRecalculationWS: Class
com.webmethods.portal.bizPolicy.command.task.webservice.StopVoteRecalculationWS added

com.webmethods.portal.bizPolicy.command.task.webservice.StopVoteRecalculationWS$StopVoteRecal
culationCommandBean: Class
com.webmethods.portal.bizPolicy.command.task.webservice.StopVoteRecalculationWS$StopVoteRecal
culationCommandBean added

com.webmethods.portal.bizPolicy.command.task.webservice.VoteTaskWS: Class
com.webmethods.portal.bizPolicy.command.task.webservice.VoteTaskWS added

com.webmethods.portal.bizPolicy.command.task.webservice.VoteTaskWS$VoteTaskCommandBean:

Class
com.webmethods.portal.bizPolicy.command.task.webservice.VoteTaskWS$VoteTaskCommandBean added

com.webmethods.portal.bizPolicy.command.task.webservice.dotnet.GetRecalculationStatusDotNetWS: Class
com.webmethods.portal.bizPolicy.command.task.webservice.dotnet.GetRecalculationStatusDotNetWS added

com.webmethods.portal.bizPolicy.upgrade.TaskEngineConfigPortletMigrator: Class
com.webmethods.portal.bizPolicy.upgrade.TaskEngineConfigPortletMigrator added

com.webmethods.portal.framework.auth.totp.ITOTPAuthenticator: Class
com.webmethods.portal.framework.auth.totp.ITOTPAuthenticator added

com.webmethods.portal.framework.auth.totp.ITOTPAuthenticatorKey: Class
com.webmethods.portal.framework.auth.totp.ITOTPAuthenticatorKey added

com.webmethods.portal.framework.auth.totp.ITOTPConfigService: Class
com.webmethods.portal.framework.auth.totp.ITOTPConfigService added

com.webmethods.portal.framework.auth.totp.ITOTPConfiguration: Class
com.webmethods.portal.framework.auth.totp.ITOTPConfiguration added

com.webmethods.portal.mech.install.util.InstallMechanicsUtils: Class
com.webmethods.portal.mech.install.util.InstallMechanicsUtils added

com.webmethods.portal.service.dir.PrincipalSortComparator: Class
com.webmethods.portal.service.dir.PrincipalSortComparator added

com.webmethods.portal.service.dir.TotpAuthenticationException: Class
com.webmethods.portal.service.dir.TotpAuthenticationException added

com.webmethods.portal.service.dir.calendar.ICalendarAdminConfig: Class
com.webmethods.portal.service.dir.calendar.ICalendarAdminConfig added

com.webmethods.portal.service.dir.calendar.ICalendarAdminConfigService: Class
com.webmethods.portal.service.dir.calendar.ICalendarAdminConfigService added

com.webmethods.portal.service.dir.gdpr.IGdprConfig: Class
com.webmethods.portal.service.dir.gdpr.IGdprConfig added

com.webmethods.portal.service.dir.gdpr.IGdprConfig$DataInclusionType: Class
com.webmethods.portal.service.dir.gdpr.IGdprConfig$DataInclusionType added

com.webmethods.portal.service.dir.gdpr.IGdprConfigService: Class
com.webmethods.portal.service.dir.gdpr.IGdprConfigService added

com.webmethods.portal.service.dir.gdpr.IGdprNotification: Class
com.webmethods.portal.service.dir.gdpr.IGdprNotification added

com.webmethods.portal.service.dir.gdpr.IGdprReconfigure: Class
com.webmethods.portal.service.dir.gdpr.IGdprReconfigure added

com.webmethods.portal.service.sql.IConnectionManager: Class
com.webmethods.portal.service.sql.IConnectionManager added

com.webmethods.portal.service.sql.runtime.base.UsersCount: Class
com.webmethods.portal.service.sql.runtime.base.UsersCount added

com.webmethods.portal.service.sql.runtime.db2.AddKeywordToApp: Class
com.webmethods.portal.service.sql.runtime.db2.AddKeywordToApp added

com.webmethods.portal.service.sql.runtime.oracle.AddKeywordToApp: Class
com.webmethods.portal.service.sql.runtime.oracle.AddKeywordToApp added

com.webmethods.portal.service.task.ITaskConnectivityService: Class
com.webmethods.portal.service.task.ITaskConnectivityService added

com.webmethods.portal.service.task.ITaskVotingStrategy: Class
com.webmethods.portal.service.task.ITaskVotingStrategy added

com.webmethods.portal.service.task.ITaskVotingStrategyManagerFactory: Class
com.webmethods.portal.service.task.ITaskVotingStrategyManagerFactory added

com.webmethods.portal.service.task.ITaskVotingStrategyProvider: Class
com.webmethods.portal.service.task.ITaskVotingStrategyProvider added

com.webmethods.portal.service.task.RecalculationStatus: Class
com.webmethods.portal.service.task.RecalculationStatus added

com.webmethods.portal.service.task.event.ITaskVoteEvent: Class
com.webmethods.portal.service.task.event.ITaskVoteEvent added

com.webmethods.portal.service.task.event.ITaskVoteEvent$IListener: Class
com.webmethods.portal.service.task.event.ITaskVoteEvent$IListener added

com.webmethods.portal.service.task.event.ITaskVoteEvent$ISynchronousListener: Class
com.webmethods.portal.service.task.event.ITaskVoteEvent$ISynchronousListener added

com.webmethods.portal.service.task.event.ITaskVoteEvent$Listeners: Class
com.webmethods.portal.service.task.event.ITaskVoteEvent$Listeners added

com.webmethods.portal.service.task.event.ITaskVoteEvent$SynchronousListeners: Class
com.webmethods.portal.service.task.event.ITaskVoteEvent$SynchronousListeners added

com.webmethods.portal.service.task.event.ITaskVoteEvent$SynchronousListeners$SynchronousListen
er: Class
com.webmethods.portal.service.task.event.ITaskVoteEvent$SynchronousListeners$SynchronousListen
er added

com.webmethods.portal.system.lock.ClusterLockFailedException: Class
com.webmethods.portal.system.lock.ClusterLockFailedException added

com.webmethods.portal.webapp.jetty7.MwsLoginService$MwsUserStore: Class
com.webmethods.portal.webapp.jetty7.MwsLoginService$MwsUserStore added

com.webmethods.portal.webapp.jetty7.MwsSession: Class

com.webmethods.portal.webapp.jetty7.MwsSession added

com.webmethods.portal.webapp.jetty7.MwsSessionCache: Class
com.webmethods.portal.webapp.jetty7.MwsSessionCache added

com.webmethods.rtl.container.ContainerMetaInfo: Class
com.webmethods.rtl.container.ContainerMetaInfo added

com.webmethods.rtl.container.health.HealthCheck: Class
com.webmethods.rtl.container.health.HealthCheck added

com.webmethods.rtl.container.health.HealthCheckConfigProvider: Class
com.webmethods.rtl.container.health.HealthCheckConfigProvider added

com.webmethods.rtl.container.health.IHealthIndicator: Class
com.webmethods.rtl.container.health.IHealthIndicator added

com.webmethods.rtl.container.health.IHealthIndicator$HealthStatus: Class
com.webmethods.rtl.container.health.IHealthIndicator$HealthStatus added

com.webmethods.rtl.container.health.IHealthIndicatorConfig: Class
com.webmethods.rtl.container.health.IHealthIndicatorConfig added

com.webmethods.rtl.container.health.config.BaseHealthIndicatorConfig: Class
com.webmethods.rtl.container.health.config.BaseHealthIndicatorConfig added

com.webmethods.rtl.container.health.config.DiskspaceHealthIndicatorConfig: Class
com.webmethods.rtl.container.health.config.DiskspaceHealthIndicatorConfig added

com.webmethods.rtl.container.health.config.JettyThreadHealthIndicatorConfig: Class
com.webmethods.rtl.container.health.config.JettyThreadHealthIndicatorConfig added

com.webmethods.rtl.container.health.config.MemoryHealthIndicatorConfig: Class
com.webmethods.rtl.container.health.config.MemoryHealthIndicatorConfig added

com.webmethods.rtl.container.health.indicator.AXSRFTGenerationHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.AXSRFTGenerationHealthIndicator added

com.webmethods.rtl.container.health.indicator.BaseHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.BaseHealthIndicator added

com.webmethods.rtl.container.health.indicator.CustomDataSourceHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.CustomDataSourceHealthIndicator added

com.webmethods.rtl.container.health.indicator.DatabaseConnectivityHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.DatabaseConnectivityHealthIndicator added

com.webmethods.rtl.container.health.indicator.DirServiceConnectivityHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.DirServiceConnectivityHealthIndicator added

com.webmethods.rtl.container.health.indicator.DiskspaceHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.DiskspaceHealthIndicator added

com.webmethods.rtl.container.health.indicator.JettyThreadHealthIndicator: Class

com.webmethods.rtl.container.health.indicator.JettyThreadHealthIndicator added

com.webmethods.rtl.container.health.indicator.MemoryHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.MemoryHealthIndicator added

com.webmethods.rtl.container.health.indicator.ProcessEngineConnectivityHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.ProcessEngineConnectivityHealthIndicator added

com.webmethods.rtl.container.health.indicator.RulesEngineConnectivityHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.RulesEngineConnectivityHealthIndicator added

com.webmethods.rtl.container.health.indicator.UmConnectionHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.UmConnectionHealthIndicator added

com.webmethods.rtl.container.metrics.PrometheousMetrics: Class
com.webmethods.rtl.container.metrics.PrometheousMetrics added

com.webmethods.rtl.util.NoodleUtil: Class com.webmethods.rtl.util.NoodleUtil added

com.webmethods.rtl.util.RuntimeUtil: Class com.webmethods.rtl.util.RuntimeUtil removed

com.webmethods.rtl.util.runtime.RuntimeUtil: Class com.webmethods.rtl.util.runtime.RuntimeUtil added

Removed API	Replacement, if any

com.webmethods.caf.faces.data.dir.DirectorySearchProvider$PrincipalSortComparator: Class
com.webmethods.caf.faces.data.dir.DirectorySearchProvider$PrincipalSortComparator removed

com.webmethods.caf.faces.data.dir.PeopleSearchProvider$PrincipalSortComparator: Class
com.webmethods.caf.faces.data.dir.PeopleSearchProvider$PrincipalSortComparator removed

com.webmethods.caf.faces.data.task.ITaskVotingStrategy: Class
com.webmethods.caf.faces.data.task.ITaskVotingStrategy removed

com.webmethods.portal.noodle.preferences.UserPreferences: Class
com.webmethods.portal.noodle.preferences.UserPreferences removed

com.webmethods.portal.service.task.TaskVotingStrategyManagerFactory: Class
com.webmethods.portal.service.task.TaskVotingStrategyManagerFactory removed

com.webmethods.portal.service.task.TaskVotingStrategyManagerFactoryInitializer: Class
com.webmethods.portal.service.task.TaskVotingStrategyManagerFactoryInitializer removed

Changed API	Description

com.webmethods.bpm.noodle.IUserTabSetService: Method 'public boolean
isTabExists(java.lang.String)' has been added to an interface

com.webmethods.caf.common.parse.xml.DateFormatter: Method 'public void main(java.lang.String[])'
has been removed

com.webmethods.caf.common.SafeXMLLayout: Added
org.apache.logging.log4j.core.impl.LocationAware to the set of implemented interfaces

com.webmethods.caf.common.logging.LoggingConstants: Added public field LOG_CATEGORY_DIRECTORY

com.webmethods.caf.common.logging.LoggingUtils: Method 'public org.slf4j.Logger getLogger(java.lang.Class, java.lang.String[])' has been added

com.webmethods.caf.faces.data.attachments.LocalTempAttachmentsProvider$FileItemImpl: Removed java.io.Serializable from the set of implemented interfaces

com.webmethods.caf.faces.data.attachments.PortalAttachmentItem$PortalContentFileItem: Removed java.io.Serializable from the set of implemented interfaces

com.webmethods.caf.faces.data.attachments.TempAttachmentsProvider$TempThingFileItem: Removed java.io.Serializable from the set of implemented interfaces

com.webmethods.caf.faces.data.attachments.URLFileItem: Removed java.io.Serializable from the set of implemented interfaces

com.webmethods.caf.faces.servlet.FileItemWrapper: Removed java.io.Serializable from the set of implemented interfaces

com.webmethods.caf.faces.servlet.MultipartWrapper: Method 'public MultipartWrapper()' has been added

com.webmethods.caf.jcr.faces.data.JcrAttachmentsProvider$JcrFileItem: Removed java.io.Serializable from the set of implemented interfaces

com.webmethods.caf.jcr.faces.util.PropertyHelper: Method 'public java.lang.String encodeNodeName(java.lang.String)' has been added

com.webmethods.caf.mobile.notify.task.NotificationSender: Parameter 2 of 'public NotificationSender(java.util.concurrent.BlockingQueue, com.sun.jersey.api.client.WebResource$Builder, java.lang.String, java.lang.String, com.sun.jersey.api.client.Client, com.webmethods.pushNotification.apns.connection.pool.APNSConnectionProvider, com.webmethods.caf.mobile.notify.impl.AppleMessagingCloudConnectionDetails)' has changed its type to javax.ws.rs.client.Invocation$Builder

com.webmethods.caf.mobile.notify.task.NotificationSender: Parameter 5 of 'public NotificationSender(java.util.concurrent.BlockingQueue, com.sun.jersey.api.client.WebResource$Builder, java.lang.String, java.lang.String, com.sun.jersey.api.client.Client, com.webmethods.pushNotification.apns.connection.pool.APNSConnectionProvider, com.webmethods.caf.mobile.notify.impl.AppleMessagingCloudConnectionDetails)' has changed its type to javax.ws.rs.client.Client

com.webmethods.caf.portalclient.task.PCTaskHelper: Method 'public com.webmethods.caf.portalclient.task.task.RecalculationStatus getRecalculationStatus(java.lang.String)' has been added

com.webmethods.caf.portalclient.task.PCTaskHelper: Method 'public void startVoteRecalculation(java.lang.String, java.lang.String)' has been added

com.webmethods.caf.portalclient.task.PCTaskHelper: Method 'public void stopVoteRecalculation(java.lang.String, java.lang.String)' has been added

com.webmethods.caf.portalclient.task.PCTaskHelper: Method 'public void voteTask(java.lang.String, java.lang.String, java.lang.String)' has been added

com.webmethods.caf.portalclient.task.task.ItaskPortType: Method 'public com.webmethods.caf.portalclient.task.task.RecalculationStatus getRecalculationStatus(java.lang.String)' has been added to an interface

com.webmethods.caf.portalclient.task.task.ItaskPortType: Method 'public void startVoteRecalculation(java.lang.String, java.lang.String)' has been added to an interface

com.webmethods.caf.portalclient.task.task.ItaskPortType: Method 'public void stopVoteRecalculation(java.lang.String, java.lang.String)' has been added to an interface

com.webmethods.caf.portalclient.task.task.ItaskPortType: Method 'public void voteTask(java.lang.String, java.lang.String, java.lang.String)' has been added to an interface

com.webmethods.caf.portalclient.task.task.TaskSearchQuery: Added public field activeVoting

com.webmethods.caf.portalclient.task.task.TaskSearchQuery: Method 'public boolean isActiveVoting()' has been added

com.webmethods.caf.portalclient.task.task.TaskSearchQuery: Method 'public void setActiveVoting(boolean)' has been added

com.webmethods.management.jmx.Log4JMXAppender: Added org.apache.logging.log4j.core.impl.LocationAware to the set of implemented interfaces

com.webmethods.portal.bizPolicy.biz.task.ITaskBizPolicy: Method 'public com.webmethods.portal.service.task.RecalculationStatus getRecalculationStatus(com.webmethods.portal.bizPolicy.IContext, java.lang.String)' has been added to an interface

com.webmethods.portal.bizPolicy.biz.task.ITaskBizPolicy: Method 'public void startVoteRecalculation(com.webmethods.portal.bizPolicy.IContext, java.lang.String)' has been added to an interface

com.webmethods.portal.bizPolicy.biz.task.ITaskBizPolicy: Method 'public void stopVoteRecalculation(com.webmethods.portal.bizPolicy.IContext, java.lang.String)' has been added to an interface

com.webmethods.portal.bizPolicy.biz.task.ITaskBizPolicy: Method 'public void voteTask(com.webmethods.portal.bizPolicy.IContext, java.lang.String, java.lang.String, java.lang.String)' has been added to an interface

com.webmethods.portal.bizPolicy.command.dir.AuthenticateUser: Method 'protected com.webmethods.portal.service.dir.IDirUser _authenticateUser(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.mech.dir.IDirSystemMechanics, java.lang.String, java.lang.String, java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.dir.AuthenticateUser: Method 'public com.webmethods.portal.service.dir.IDirUser authenticateUser(com.webmethods.portal.bizPolicy.IContext, java.lang.String, java.lang.String, java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.dir.AuthenticateUser: Method 'public com.webmethods.portal.service.dir.IDirUser authenticateUser(com.webmethods.portal.bizPolicy.IContext, java.lang.String, java.lang.String, java.lang.String, boolean)' has been added

com.webmethods.portal.bizPolicy.command.dir.AuthenticateUser: Method 'protected void handleTotpFailed(java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.dir.rs.RoleJaxbContentResolver: Return type of method 'public javax.xml.bind.JAXBContext getContext(java.lang.Class)' has been changed to com.fasterxml.jackson.databind.ObjectMapper

com.webmethods.portal.bizPolicy.command.rest.MWSCustomDispatchProvider: Removed com.sun.jersey.spi.container.ResourceMethodDispatchProvider from the set of implemented interfaces

com.webmethods.portal.bizPolicy.command.rest.MWSCustomDispatchProvider: Method 'public MWSCustomDispatchProvider(com.sun.jersey.spi.container.ResourceMethodDispatchProvider)' has been removed

com.webmethods.portal.bizPolicy.command.rest.MWSCustomDispatchProvider: Method 'public com.sun.jersey.spi.dispatch.RequestDispatcher create(com.sun.jersey.api.model.AbstractResourceMethod)' has been removed

com.webmethods.portal.bizPolicy.command.rest.MWSRequestDispatcher: Removed com.sun.jersey.spi.dispatch.RequestDispatcher from the set of implemented interfaces

com.webmethods.portal.bizPolicy.command.rest.MWSRequestDispatcher: In method 'public MWSRequestDispatcher(com.sun.jersey.spi.dispatch.RequestDispatcher)' the number of arguments has changed

com.webmethods.portal.bizPolicy.command.rest.MWSRequestDispatcher: Method 'public void dispatch(java.lang.Object, com.sun.jersey.api.core.HttpContext)' has been removed

com.webmethods.portal.bizPolicy.command.task.jms.api.TaskCommandJMS: Added public field GET_RECALCULATION_STATUS

com.webmethods.portal.bizPolicy.command.task.jms.api.TaskCommandJMS: Added public field VOTE_TASK

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Added com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource to the list of superclasses

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Method 'public javax.ws.rs.core.Response buildResponse(java.lang.String, java.lang.Object)' is now implemented in superclass com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Method 'public

javax.ws.rs.core.Response buildResponse()' is now implemented in superclass com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Method 'public java.util.Map convertPropertyValues(java.lang.String[], java.util.Map)' is now implemented in superclass com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Method 'protected com.webmethods.portal.bizPolicy.command.ICommand getCommand(com.webmethods.portal.bizPolicy.IContext, java.lang.String)' is now implemented in superclass com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Method 'public java.lang.String getStringValue(java.lang.Object)' is now implemented in superclass com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Method 'public java.lang.String getSupportedMediaType(java.lang.String)' is now implemented in superclass com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Method 'public java.lang.Object invoke(javax.servlet.http.HttpServletRequest, java.lang.String, java.lang.String[])' is now implemented in superclass com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Method 'public java.lang.Object invoke(javax.servlet.http.HttpServletRequest, java.lang.String, com.webmethods.portal.bizPolicy.command.impl.CommandBean)' is now implemented in superclass com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource

com.webmethods.portal.bizPolicy.command.task.rs.JAXBContextResolver: Return type of method 'public javax.xml.bind.JAXBContext getContext(java.lang.Class)' has been changed to com.fasterxml.jackson.databind.ObjectMapper

com.webmethods.portal.bizPolicy.command.task.rs.LayeredProductVerionResource: Added com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource to the list of superclasses

com.webmethods.portal.bizPolicy.command.task.rs.SearchTaskResource: Added com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource to the list of superclasses

com.webmethods.portal.bizPolicy.command.task.rs.TaskAttachmentResource: Added com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource to the list of superclasses

com.webmethods.portal.bizPolicy.command.task.rs.TaskAuditResource: Added com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource to the list of superclasses

com.webmethods.portal.bizPolicy.command.task.rs.TaskCommentResource: Added com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource to the list of superclasses

com.webmethods.portal.bizPolicy.command.task.rs.TaskResource: Added com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource to the list of superclasses

com.webmethods.portal.bizPolicy.command.task.webservice.FileItemRESTImpl: Removed

java.io.Serializable from the set of implemented interfaces

com.webmethods.portal.framework.session.handlers.Validate: Method 'protected com.webmethods.portal.service.dir.IDirUser authenticateUser(com.webmethods.portal.bizPolicy.IContext, java.lang.String, java.lang.String, java.lang.String)' has been added

com.webmethods.portal.noodle.util.NoodleUtils: Added com.webmethods.rtl.util.NoodleUtil to the list of superclasses

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public boolean canUser(com.webmethods.portal.system.IURI, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public boolean canUser(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.system.IURI, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public boolean canUser(java.lang.String, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.meta2.thing.IThingID createObjectInFolder(com.webmethods.portal.service.meta2.thing.IThingID, java.lang.String, java.lang.String, java.util.Map, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public java.lang.String encodePath(java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.bizPolicy.biz.meta.IBasicPolicy getBasicPolicy()' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.bizPolicy.command.ICommandManager getCommandManager()' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.mech.storage.IContainerMechanics getContainerMech(com.webmethods.portal.service.meta2.thing.IThingID)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.bizPolicy.biz.meta.IContainerPolicy getContainerPolicy(com.webmethods.portal.service.meta2.thing.IThingID)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.bizPolicy.IContext getCurrentContext()' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.meta2.thing.IThingID getCurrentUser()' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public java.lang.String getCurrentUserID()' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.meta2.thing.IThingID getDirPrincipalThingId(com.webmethods.portal.bizPolicy.IContext, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.meta2.thing.IThingID getFolder(com.webmethods.portal.service.meta2.thing.IThingID, java.lang.String, boolean, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public java.lang.String getFriendlyURL(com.webmethods.portal.system.IURI)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public javax.jcr.Session getJcrSession()' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.caf.jcr.faces.bean.RepositorySessionManager getJcrSessionManager()' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public javax.jcr.Node getOrCreateChildNode(javax.jcr.Session, javax.jcr.Node, java.lang.String, boolean, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.meta2.thing.IThingID getPrimaryChild(com.webmethods.portal.service.meta2.thing.IThingID, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.meta2.thing.IThingID getPrincipalThingID(com.webmethods.portal.bizPolicy.IContext, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.view.IListView getSortedChildren(com.webmethods.portal.service.meta2.thing.IThingID)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.system.IURI getUriForID(java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public

com.webmethods.portal.service.meta2.thing.IThingID getUserHomeFolder(java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.view.IView getView(com.webmethods.portal.system.IURI)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.view.IView getView(java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public java.lang.String getXTypeName(com.webmethods.portal.service.meta2.thing.IThingID)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public java.lang.String makeUniqueName(javax.jcr.Node, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public java.lang.String makeUniqueName(com.webmethods.portal.service.meta2.thing.IThingID, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.service.access.IAclManager$AcePropertyDescriptor: Added protected field uri

com.webmethods.portal.service.access.IAclManager$AcePropertyDescriptor: Method 'public com.webmethods.portal.system.IURI getUri()' has been added

com.webmethods.portal.service.access.IAclManager$AcePropertyDescriptor: Method 'public void setUri(com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.service.dir.IDirConstants: Added public field TOTP_ADMIN_ALIAS

com.webmethods.portal.service.dir.IDirConstants: Added public field TOTP_AUTH

com.webmethods.portal.service.dir.IDirConstants: Added public field TOTP_CATEGORY

com.webmethods.portal.service.dir.IDirConstants: Added public field TOTP_CREDENTIALS

com.webmethods.portal.service.dir.IDirConstants: Added public field TOTP_PREFIX

com.webmethods.portal.service.dir.IDirConstants: Added public field TOTP_SERVICE_TOKEN

com.webmethods.portal.service.dir.IDirConstants: Added public field TOTP_TOKEN_NAME

com.webmethods.portal.service.dir.IDirService: Method 'public boolean testConnection()' has been added to an interface

[clirr] INFO: com.webmethods.portal.service.sql.IConnectionInfo: Added public field DEFAULT_RETRY_COUNT

com.webmethods.portal.service.sql.IConnectionInfo: Added public field DEFAULT_RETRY_DELAY

com.webmethods.portal.service.sql.IConnectionProvider: Added public field PARAM_ALIAS_NAME

com.webmethods.portal.service.sql.core.ConnectionInfo: Accessibility of field

DEFAULT_RETRY_COUNT has been increased from protected to public

com.webmethods.portal.service.sql.core.ConnectionInfo: Accessibility of field DEFAULT_RETRY_DELAY has been increased from protected to public

com.webmethods.portal.service.sql.core.ConnectionManager: Added com.webmethods.portal.service.sql.IConnectionManager to the set of implemented interfaces

   [clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field DB2_DRIVER is now final

   [clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field DB2_URL_PARSER_EXPRESSION is now final

   [clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field DB2_URL_TEMPLATE is now final

   [clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field DERBY_DRIVER is now final

   [clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field DERBY_SERVER_URL_PARSER_EXPRESSION is now final

   [clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field DERBY_URL_PARSER_EXPRESSION is now final

   [clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field DERBY_URL_TEMPLATE is now final

   [clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field INFORMIX_DRIVER is now final

   [clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field INFORMIX_URL_PARSER_EXPRESSION is now final

   [clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field INFORMIX_URL_TEMPLATE is now final

   [clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field MSSQL_DRIVER is now final

   [clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field MSSQL_URL_PARSER_EXPRESSION is now final

   [clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field MSSQL_URL_TEMPLATE is now final

   [clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field MYSQL_DRIVER is now final

   [clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field MYSQL_SERVER_URL_PARSER_EXPRESSION is now final

   [clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field

MYSQL_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field MYSQL_URL_TEMPLATE is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field ORACLE_DRIVER is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field ORACLE_THIN_DRIVER is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field ORACLE_THIN_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field ORACLE_THIN_URL_TEMPLATE is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field ORACLE_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field ORACLE_URL_PARSER_EXPRESSION_SERVICENAME is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field ORACLE_URL_TEMPLATE is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field ORACLE_URL_TEMPLATE_SERVICENAME is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field POSTGRESQL_DRIVER is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field POSTGRESQL_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field POSTGRESQL_URL_TEMPLATE is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SERVER_DB2 is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SERVER_DERBY is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SERVER_MSSQL is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SERVER_MYSQL is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SERVER_ORACLE is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field

SERVER_POSTGRESQL is now final

   [clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SYBASE_DRIVER is now final

   [clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SYBASE_URL_PARSER_EXPRESSION is now final

   [clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SYBASE_URL_TEMPLATE is now final

com.webmethods.portal.service.sql.core.provider.pool.PooledConnectionProvider: Added public field TEMP_POOL_NAME

com.webmethods.portal.service.sql.runtime.MySqlDatabaseRuntime: Method 'public java.lang.String getFieldName(java.lang.String)' has been added

com.webmethods.portal.service.sql.runtime.base.AddKeywordToApp: Method 'public java.lang.String getInsertStatement()' has been added

com.webmethods.portal.service.sql.runtime.base.BaseStoredProcedure: Method 'protected java.lang.String getDBFieldName(java.lang.String)' has been added

com.webmethods.portal.service.sql.runtime.base.BaseStoredProcedure: Method 'protected java.lang.String getFieldName(java.lang.String)' has been added

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesPaged: In method 'protected void addFromIndexParams(int, java.util.Map, com.webmethods.portal.service.task.TaskSearchQueryV2)' the number of arguments has changed

com.webmethods.portal.service.sql.runtime.mysql.TaskSearchFromInboxesPaged: Method 'protected void addFromIndexParams(java.util.Map, com.webmethods.portal.service.task.TaskSearchQueryV2)' has been added

com.webmethods.portal.service.task.ITaskConstants: Added public field TASK_OPERATION_VOTING_STRATEGY_UPDATE

com.webmethods.portal.service.task.ITaskSearchQueryExtended: Method 'public boolean isActiveVoting()' has been added to an interface

com.webmethods.portal.service.task.ITaskSystem: Method 'public com.webmethods.portal.service.task.ITaskConnectivityService getTaskConnectivityService()' has been added to an interface

com.webmethods.portal.service.task.ITaskVotingService: Method 'public com.webmethods.portal.service.task.ITaskVotingStrategyManagerFactory getTaskVotingStrategyFactory()' has been added to an interface

com.webmethods.portal.service.task.ITaskVotingService: Method 'public com.webmethods.portal.service.task.ITaskVotingStrategyProvider getTaskVotingStrategyProvider()' has been added to an interface

com.webmethods.portal.service.task.ITaskVotingStrategyManager: In method 'public void

executeStatusRecalculation(com.webmethods.portal.service.task.ITaskDefinition)' the number of arguments has changed

com.webmethods.portal.service.task.ITaskVotingStrategyManager: Parameter 1 of 'public void updateTaskVotingStrategy(com.webmethods.portal.service.task.ITaskDefinition, boolean)' has changed its type to com.webmethods.portal.system.IURI

com.webmethods.portal.service.task.ITaskVotingStrategyManager: Parameter 2 of 'public void updateTaskVotingStrategy(com.webmethods.portal.service.task.ITaskDefinition, boolean)' has changed its type to com.webmethods.portal.service.task.ITaskDefinition

com.webmethods.portal.service.task.ITaskVotingStrategyManager: In method 'public void updateTaskVotingStrategy(com.webmethods.portal.service.task.ITaskDefinition)' the number of arguments has changed

com.webmethods.portal.system.IConstants: Added public field SYSTEM_PATH_DATA

com.webmethods.portal.system.PortalSystem: Added public field PORTAL_HOME

com.webmethods.portal.system.PortalSystem: Added public field SERVER_HOME

com.webmethods.portal.system.PortalSystem: Field m_componentProviderNames is now static

com.webmethods.portal.system.PortalSystem: Field m_componentProviders is now static

com.webmethods.portal.system.PortalSystem: Method 'public com.webmethods.rtl.container.ContainerMetaInfo getContainerConfig()' has been added

com.webmethods.portal.system.PortalSystem: Method 'public boolean isContainer()' has been added

com.webmethods.portal.system.cluster.IClusterProvider: Added public field USE_DB_JMS

com.webmethods.portal.system.lock.IClusterLock: Method 'public com.webmethods.portal.system.IURI getTaskURI()' has been deprecated

com.webmethods.portal.system.lock.IClusterLock: Method 'public boolean isExpired(java.util.Date)' has been deprecated

com.webmethods.portal.system.lock.IClusterLockingService: Added public field LOCK_MAX_TIME

com.webmethods.portal.system.lock.IClusterLockingService: Added public field LOCK_MAX_WAIT_TIME

com.webmethods.portal.system.lock.IClusterLockingService: Method 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, long, long, boolean)' has been deprecated

com.webmethods.portal.system.lock.IClusterLockingService: Method 'public void removeFromTLS(com.webmethods.portal.system.lock.IClusterLock)' has been added to an interface

com.webmethods.portal.webapp.jetty7.MwsAuthenticator$MwsUser: Added org.eclipse.jetty.server.Authentication$LogoutAuthentication to the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.MwsAuthenticator$MwsUser: Method 'public org.eclipse.jetty.server.Authentication logout(javax.servlet.ServletRequest)' has been added

com.webmethods.portal.webapp.jetty7.MwsLoginService: Added
org.eclipse.jetty.util.component.Container to the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.MwsLoginService: Added
org.eclipse.jetty.util.component.Destroyable to the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.MwsLoginService: Added
org.eclipse.jetty.util.component.Dumpable to the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.MwsLoginService: Added
org.eclipse.jetty.security.AbstractLoginService to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsLoginService: Added
org.eclipse.jetty.security.HashLoginService to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsLoginService: Removed
org.eclipse.jetty.security.MappedLoginService from the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsLoginService: Added
org.eclipse.jetty.util.component.ContainerLifeCycle to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsLoginService: Method 'protected java.lang.String[]
loadRoleInfo(org.eclipse.jetty.security.AbstractLoginService$UserPrincipal)' has been added

com.webmethods.portal.webapp.jetty7.MwsLoginService: Method 'protected
org.eclipse.jetty.server.UserIdentity loadUser(java.lang.String)' has been removed

com.webmethods.portal.webapp.jetty7.MwsLoginService: Method 'protected
org.eclipse.jetty.security.AbstractLoginService$UserPrincipal loadUserInfo(java.lang.String)' has been
added

com.webmethods.portal.webapp.jetty7.MwsLoginService: In method 'public
org.eclipse.jetty.server.UserIdentity login(java.lang.String, java.lang.Object)' the number of arguments
has changed

com.webmethods.portal.webapp.jetty7.MwsLoginService$MwsKnownUser: Removed
org.eclipse.jetty.security.MappedLoginService$UserPrincipal from the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.MwsLoginService$MwsKnownUser: Added
org.eclipse.jetty.security.AbstractLoginService$UserPrincipal to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsLoginService$MwsKnownUser: Method 'public
java.lang.String getName()' has been removed, but an inherited definition exists.

com.webmethods.portal.webapp.jetty7.MwsSessionFactory: Return type of method 'public
org.eclipse.jetty.server.session.AbstractSession getMwsSession(java.lang.String)' has been changed to
org.eclipse.jetty.server.session.Session

com.webmethods.portal.webapp.jetty7.MwsSessionFactory: Method 'public
org.eclipse.jetty.server.session.SessionCache
getSessionCache(org.eclipse.jetty.server.session.SessionHandler)' has been added

com.webmethods.portal.webapp.jetty7.MwsSessionFactory: Return type of method 'public

org.eclipse.jetty.server.session.AbstractSession
newSession(com.webmethods.portal.webapp.jetty7.MwsSessionManager,
javax.servlet.http.HttpServletRequest)' has been changed to org.eclipse.jetty.server.session.Session

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Added org.eclipse.jetty.server.Handler to the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Added
org.eclipse.jetty.server.HandlerContainer to the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Removed
org.eclipse.jetty.server.SessionManager from the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Added
org.eclipse.jetty.server.handler.AbstractHandler to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Added
org.eclipse.jetty.server.handler.AbstractHandlerContainer to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Added
org.eclipse.jetty.server.handler.HandlerWrapper to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Added
org.eclipse.jetty.server.handler.ScopedHandler to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Removed
org.eclipse.jetty.server.session.AbstractSessionManager from the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Removed
org.eclipse.jetty.server.session.HashSessionManager from the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Added
org.eclipse.jetty.server.session.SessionHandler to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Parameter 1 of 'protected void
addAuthInfo(org.eclipse.jetty.server.session.AbstractSession)' has changed its type to
org.eclipse.jetty.server.session.Session

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Parameter 1 of 'protected void
addContextLocale(org.eclipse.jetty.server.session.AbstractSession)' has changed its type to
org.eclipse.jetty.server.session.Session

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Parameter 1 of 'protected void
addSubject(org.eclipse.jetty.server.session.AbstractSession)' has changed its type to
org.eclipse.jetty.server.session.Session

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Method 'protected
org.eclipse.jetty.server.session.Session createHttpSession(javax.servlet.http.HttpServletRequest)' has
been added

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Method 'protected void doStop()' has
been added

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Return type of method 'public
org.eclipse.jetty.server.session.AbstractSession getSession(java.lang.String)' has been changed to
org.eclipse.jetty.server.session.Session

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Method 'public void
invalidate(java.lang.String)' has been added

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Method 'public
javax.servlet.http.HttpSession newHttpSession(javax.servlet.http.HttpServletRequest)' has been added

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Method 'public
org.eclipse.jetty.server.session.AbstractSession newSession(javax.servlet.http.HttpServletRequest)' has
been removed

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Parameter 1 of 'public boolean
removeSession(org.eclipse.jetty.server.session.AbstractSession, boolean)' has changed its type to
java.lang.String

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Return type of method 'public boolean
removeSession(org.eclipse.jetty.server.session.AbstractSession, boolean)' has been changed to
org.eclipse.jetty.server.session.Session

com.webmethods.portal.webapp.jetty7.MwsSessionManager$MwsSession: Class
com.webmethods.portal.webapp.jetty7.MwsSessionManager$MwsSession removed

com.webmethods.portal.webapp.jetty7.WebXMLRewriter: Accessibility of field
FIX_BUNDLE_WEB_XML has been weakened from public to package

com.webmethods.portal.webservices.glue.SoapLogLayout: Added
org.apache.logging.log4j.core.impl.LocationAware to the set of implemented interfaces

com.webmethods.rtl.LoggingConstants: Added public field LOG_CATEGORY_DIRECTORY

com.webmethods.portal.webapp.jetty7.MwsLoginService$MwsKnownUser: Method 'public boolean
isAuthenticated()' has been removed

com.webmethods.rtl.jms.PortalClientOverJMS: Method 'public
com.webmethods.portal.service.task.RecalculationStatus getRecalculationStatus(java.util.Map)' has
been added

com.webmethods.rtl.jms.PortalClientOverJMS: Method 'public java.lang.String
voteTask(java.util.Map)' has been added

com.webmethods.rtl.logging.QueueJMSAppender: Added
org.apache.logging.log4j.core.impl.LocationAware to the set of implemented interfaces

com.webmethods.rtl.logging.SafeXMLLayout: Added
org.apache.logging.log4j.core.impl.LocationAware to the set of implemented interfaces

com.webmethods.rtl.mail.MailUtil: Added protected field mwsEmailProps

com.webmethods.rtl.mail.MailUtilService: Added
com.webmethods.portal.event.IClassUpdateEvent$ISynchronousListener to the set of implemented

interfaces

com.webmethods.rtl.mail.MailUtilService: Added
com.webmethods.portal.event.IComponentEvent$ISynchronousListener to the set of implemented
interfaces

com.webmethods.rtl.mail.MailUtilService: Added com.webmethods.portal.system.IComponent to the
set of implemented interfaces

com.webmethods.rtl.mail.MailUtilService: Added
com.webmethods.portal.system.IComponentProvider to the set of implemented interfaces

com.webmethods.rtl.mail.MailUtilService: Added com.webmethods.portal.system.IConstants to the set
of implemented interfaces

com.webmethods.rtl.mail.MailUtilService: Added com.webmethods.portal.system.IURIResolver to the
set of implemented interfaces

com.webmethods.rtl.mail.MailUtilService: Added com.webmethods.portal.system.init.IInitializable to
the set of implemented interfaces

com.webmethods.rtl.mail.MailUtilService: Added com.webmethods.portal.system.BaseComponent to
the list of superclasses

com.webmethods.rtl.mail.MailUtilService: Added com.webmethods.portal.system.impl.BaseProvider
to the list of superclasses

com.webmethods.rtl.mail.MailUtilService: Method 'protected void activate(java.util.Map)' is now
implemented in superclass com.webmethods.portal.system.impl.BaseProvider

com.webmethods.rtl.mail.MailUtilService: Method 'protected void deactivate()' is now implemented in
superclass com.webmethods.portal.system.impl.BaseProvider

com.webmethods.rtl.mail.MailUtilService: Method 'protected void initComponents(java.lang.String)'
has been added

com.webmethods.rtl.mail.MailUtilService: Method 'public void shutdown()' has been added

com.webmethods.rtl.mail.MailUtilService: Method 'public void updateConfig(java.util.Map)' has been
added

com.webmethods.rtl.mail.api.IMailUtil: Added com.webmethods.portal.system.IComponent to the set
of implemented interfaces

com.webmethods.rtl.mail.api.IMailUtil: Added com.webmethods.portal.system.IComponentProvider
to the set of implemented interfaces

com.webmethods.rtl.mail.api.IMailUtil: Added com.webmethods.portal.system.IURIResolver to the set
of implemented interfaces

com.webmethods.rtl.mail.api.IMailUtil: Added com.webmethods.portal.system.init.IInitializable to the
set of implemented interfaces

com.webmethods.rtl.mail.api.IMailUtil: Added public field ADMIN_EMAIL_ADDRESS

com.webmethods.rtl.mail.api.IMailUtil: Added public field DCS_EMAIL_ADDRESS

com.webmethods.rtl.mail.api.IMailUtil: Added public field DCS_EMAIL_FROM

com.webmethods.rtl.mail.api.IMailUtil: Added public field DEFAULT_SMTP_PROTOCOL_VALUE

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_MAIL_DEBUG

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_SMTP_CONNECTION_TIMEOUT

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_SMTP_HOST

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_SMTP_PASSWORD

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_SMTP_PORT

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_SMTP_PROTOCOL

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_SMTP_TIMEOUT

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_SMTP_TLS_ENABLED

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_SMTP_USERNAME

com.webmethods.rtl.mail.api.IMailUtil: Method 'public void updateConfig(java.util.Map)' has been added to an interface

com.webmethods.rtl.msg.jms.JMSProvider: Accessibility of method 'protected void onConnect(java.lang.String, javax.jms.Connection)' has been increased from protected to public

com.webmethods.rtl.util.Debug: Added public field LOG_DEFAULT

com.webmethods.rtl.util.FileUtil: Method 'public boolean dirExists(java.lang.String)' has been added

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Added API	Description
com.webmethods.portal.mech.task.ITaskMechanics: Method 'public void fireTaskVotingStrategyUpdateStopEvent(com.webmethods.portal.service.task.ITaskDefinition)' has been added to an interface	
com.webmethods.portal.mech.task.ITaskMechanics: Method 'public void fireTaskVotingStrategyUpdateStopEvent(com.webmethods.portal.service.task.ITaskDefinition, java.lang.String)' has been added to an interface	
com.webmethods.portal.service.task.ITaskSystem: Method 'public com.webmethods.portal.service.task.ITaskVotingService getTaskVotingService()' has been added to an interface	
com.webmethods.portal.system.IComponentProvider: Method 'public org.slf4j.Logger getLogger()' has been added to an interface	
com.webmethods.rtl.event.ecs.IJMSSupport: Method 'public com.webmethods.rtl.event.ecs.IJMSSupport$IJMSQueue createQueue(java.lang.String, boolean)' has	

been added to an interface

com.webmethods.rtl.event.ecs.IJMSSupport: Method 'public
com.webmethods.rtl.event.ecs.IJMSSupport$IJMSTopic createTopic(java.lang.String, boolean, boolean)'
has been added to an interface

Removed API	Replacement, if any

com.webmethods.caf.rules.IRuleContext: Method 'public org.apache.log4j.Category getLogCategory()'
has been removed

com.webmethods.caf.rules.IRuleContext: Method 'public void
setLogCategory(org.apache.log4j.Category)' has been removed

com.webmethods.caf.rules.impl.BaseTerm: Removed field logCategory

com.webmethods.caf.rules.impl.RuleContext: Method 'public org.apache.log4j.Category
getLogCategory()' has been removed

com.webmethods.caf.rules.impl.RuleContext: Method 'public void
setLogCategory(org.apache.log4j.Category)' has been removed

com.webmethods.caf.wsclient.session.impl.WSClientSession: Method 'protected void
updateSessionPoolCookies()' has been removed

com.webmethods.management.jmx.Log4JMXAppender: Removed org.apache.log4j.Appender from the
set of implemented interfaces

com.webmethods.management.jmx.Log4JMXAppender: Removed org.apache.log4j.spi.OptionHandler
from the set of implemented interfaces

com.webmethods.management.jmx.Log4JMXAppender: Removed org.apache.log4j.AppenderSkeleton
from the list of superclasses

com.webmethods.management.jmx.Log4JMXAppender: Method 'public void close()' has been removed

com.webmethods.management.jmx.Log4JMXAppender: Method 'public boolean requiresLayout()' has
been removed

com.webmethods.portal.event.system.ILogMessageEvent: Method 'public
org.apache.log4j.spi.LoggingEvent getLoggingEvent()' has been removed

com.webmethods.portal.event.system.impl.LogMessageEvent: Method 'public
org.apache.log4j.spi.LoggingEvent getLoggingEvent()' has been removed

com.webmethods.portal.framework.dispatch.handlers.system.Logout: Field RETURN_URL_ATTR has
been removed, but it was previously a constant

com.webmethods.portal.jms.JMSPhaseProvider: Method 'public
com.webmethods.rtl.msg.jms.JMSProvider getProvider()' has been removed

com.webmethods.portal.mech.task.impl.TaskChangeHandler: Method 'protected void
processScheduleRulesInFolder(com.webmethods.portal.mech.task.impl.TaskRuleContext,
com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, java.util.List)' has been

removed

com.webmethods.portal.service.install.impl.BaseInstallService: Method 'public org.apache.log4j.Category getLogCategory()' has been removed

com.webmethods.portal.service.scheduler.Scheduler: Method 'protected void bindClusterLockingService(com.webmethods.portal.system.lock.IClusterLockingService)' has been removed

com.webmethods.portal.service.scheduler.Scheduler: Method 'protected void unbindClusterLockingService(com.webmethods.portal.system.lock.IClusterLockingService)' has been removed

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesByTagCount: Method 'protected void orderParameters(com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo)' has been removed

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesByTagPaged: Method 'protected void orderParameters(com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo)' has been removed

com.webmethods.portal.system.IComponentProvider: Method 'public org.apache.log4j.Category getLogCategory()' has been removed

com.webmethods.portal.webapp.jetty7.RelocatedClassUpdater$ModifierClassWriter: Removed org.objectweb.asm.ClassVisitor from the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.RelocatedClassUpdater$ModifierMethodWriter: Removed org.objectweb.asm.MethodVisitor from the set of implemented interfaces

com.webmethods.portal.webservices.glue.SoapLogLayout: Removed org.apache.log4j.spi.OptionHandler from the set of implemented interfaces

com.webmethods.portal.webservices.glue.SoapLogLayout: Removed org.apache.log4j.Layout from the list of superclasses

com.webmethods.portal.webservices.glue.SoapLogLayout: Removed org.apache.log4j.xml.XMLLayout from the list of superclasses

com.webmethods.portal.webservices.glue.SoapLogLayout: Method 'public java.lang.String format(org.apache.log4j.spi.LoggingEvent)' has been removed

com.webmethods.rtl.logging.CollectorCategory: Class com.webmethods.rtl.logging.CollectorCategory removed

com.webmethods.rtl.logging.CollectorCategoryFactory: Class com.webmethods.rtl.logging.CollectorCategoryFactory removed

com.webmethods.rtl.logging.CollectorConsoleAppender: Class com.webmethods.rtl.logging.CollectorConsoleAppender removed

com.webmethods.rtl.logging.CollectorFileAppender: Class
com.webmethods.rtl.logging.CollectorFileAppender removed

com.webmethods.rtl.logging.CollectorLoggingEvent: Class
com.webmethods.rtl.logging.CollectorLoggingEvent removed

com.webmethods.rtl.logging.CollectorPatternLayout: Class
com.webmethods.rtl.logging.CollectorPatternLayout removed

com.webmethods.rtl.logging.CollectorPatternParser: Class
com.webmethods.rtl.logging.CollectorPatternParser removed

com.webmethods.rtl.logging.EmailEventEvaluator: Class
com.webmethods.rtl.logging.EmailEventEvaluator removed

com.webmethods.rtl.logging.EnhancedPatternLayout: Class
com.webmethods.rtl.logging.EnhancedPatternLayout removed

com.webmethods.rtl.logging.LoggingUtils: Method 'public org.apache.log4j.Priority
getAppenderPriority(org.apache.log4j.AppenderSkeleton)' has been removed

com.webmethods.rtl.logging.QueueJMSAppender: Removed org.apache.log4j.Appender from the set
of implemented interfaces

com.webmethods.rtl.logging.QueueJMSAppender: Removed org.apache.log4j.spi.OptionHandler from
the set of implemented interfaces

com.webmethods.rtl.logging.QueueJMSAppender: Removed org.apache.log4j.AppenderSkeleton from
the list of superclasses

com.webmethods.rtl.logging.QueueJMSAppender: Method 'public void close()' has been removed

com.webmethods.rtl.logging.QueueJMSAppender: Method 'public boolean requiresLayout()' has been
removed

com.webmethods.rtl.logging.RunAsServiceConsoleFilter: Removed
org.apache.log4j.spi.OptionHandler from the set of implemented interfaces

com.webmethods.rtl.logging.RunAsServiceConsoleFilter: Removed org.apache.log4j.spi.Filter from the
list of superclasses

com.webmethods.rtl.logging.RunAsServiceConsoleFilter: Method 'public int
decide(org.apache.log4j.spi.LoggingEvent)' has been removed

com.webmethods.rtl.logging.SMTPAppender: Class com.webmethods.rtl.logging.SMTPAppender
removed

com.webmethods.rtl.logging.SafeXMLLayout: Removed org.apache.log4j.spi.OptionHandler from the
set of implemented interfaces

com.webmethods.rtl.logging.SafeXMLLayout: Removed org.apache.log4j.Layout from the list of
superclasses

com.webmethods.rtl.logging.SafeXMLLayout: Removed org.apache.log4j.xml.XMLLayout from the list

of superclasses

com.webmethods.rtl.logging.TimeRollingFileAppender: Class
com.webmethods.rtl.logging.TimeRollingFileAppender removed

com.webmethods.rtl.logging.convert.CollectorPatternConverter: Class
com.webmethods.rtl.logging.convert.CollectorPatternConverter removed

com.webmethods.rtl.logging.convert.ComponentPatternConverter: Class
com.webmethods.rtl.logging.convert.ComponentPatternConverter removed

com.webmethods.rtl.logging.convert.HostNamePatternConverter: Class
com.webmethods.rtl.logging.convert.HostNamePatternConverter removed

com.webmethods.rtl.logging.convert.ServerPatternConverter: Class
com.webmethods.rtl.logging.convert.ServerPatternConverter removed

com.webmethods.rtl.logging.convert.VersionPatternConverter: Class
com.webmethods.rtl.logging.convert.VersionPatternConverter removed

com.webmethods.rtl.msg.jms.JMSProvider: Removed field clusterProvider

com.webmethods.rtl.msg.jms.JMSProvider: Method 'public void
setClusterProvider(com.webmethods.portal.system.cluster.IClusterProvider)' has been removed

com.webmethods.rtl.util.Debug: Method 'public org.apache.log4j.Category
getSafeCategory(java.lang.String)' has been removed

com.webmethods.rtl.util.Debug: Method 'public void initByProperties(java.util.Properties)' has been
removed

com.webmethods.rtl.util.Debug: Method 'protected void syncJuliLoggerLevel(org.apache.log4j.Logger,
java.util.logging.Logger)' has been removed

com.webmethods.rtl.util.FileUtil: Method 'public java.lang.String
getRealLocationAtISatTaskApp(java.lang.String, java.lang.String)' has been removed

Changed API	Description

com.webmethods.caf.common.StringTools: Value of field BOOLEAN_FALSE is no longer a compile-
time constant

com.webmethods.caf.common.StringTools: Value of field BOOLEAN_TRUE is no longer a compile-
time constant

com.webmethods.caf.common.StringTools: Value of field SYSTEM_ENCODING is no longer a
compile-time constant

com.webmethods.caf.faces.bean.BaseApplicationBean: Changed type of field m_JournalLogger from
com.webmethods.sc.logging.log4j.WmJournalLogger to
com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

com.webmethods.caf.faces.bean.BaseApplicationBean: Changed type of field m_LoggerFactory from

com.webmethods.sc.logging.log4j.WmLoggerFactory to
com.webmethods.sc.logging.log4j2.logger.WmLoggerFactory

com.webmethods.caf.faces.bean.BaseApplicationBean: Changed type of field m_LoggerFactoryContext
from com.webmethods.sc.logging.log4j.LoggerFactoryContext to
com.webmethods.sc.logging.log4j2.logger.LoggerFactoryContext

com.webmethods.caf.faces.bean.BaseApplicationBean: Return type of method 'public
com.webmethods.sc.logging.log4j.WmJournalLogger getJournalLogger()' has been changed to
com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

com.webmethods.caf.faces.component.tree.TreeRowDataColumn: Changed type of field logger from
org.apache.log4j.Logger to org.slf4j.Logger

com.webmethods.caf.faces.portlet.BasePortletPhaseListenerWrapper: Changed type of field logger
from org.apache.log4j.Logger to org.slf4j.Logger

com.webmethods.caf.faces.render.html.message.MessageRenderer: Changed type of field logger from
org.apache.log4j.Logger to org.slf4j.Logger

com.webmethods.caf.faces.util.LogUtils: Value of field LEVEL_DEBUG is no longer a compile-time
constant

com.webmethods.caf.faces.util.LogUtils: Value of field LEVEL_ERROR is no longer a compile-time
constant

com.webmethods.caf.faces.util.LogUtils: Value of field LEVEL_FATAL is no longer a compile-time
constant

com.webmethods.caf.faces.util.LogUtils: Value of field LEVEL_INFO is no longer a compile-time
constant

com.webmethods.caf.faces.util.LogUtils: Value of field LEVEL_WARN is no longer a compile-time
constant

com.webmethods.caf.wsclient.WSClient: Changed type of field logger from org.apache.log4j.Logger to
org.slf4j.Logger

com.webmethods.caf.wsclient.saml.IArtifactFactory: Return type of method 'public java.lang.String
validateSAMLResponse(javax.servlet.http.HttpServletRequest, java.lang.String)' has been changed to
java.util.Map

com.webmethods.management.jmx.Log4JMXAppender: In method 'public Log4JMXAppender()' the
number of arguments has changed

com.webmethods.management.jmx.Log4JMXAppender: Accessibility of method 'public
Log4JMXAppender()' has been decreased from public to protected

com.webmethods.management.jmx.Log4JMXAppender: Parameter 1 of 'protected void
append(org.apache.log4j.spi.LoggingEvent)' has changed its type to
org.apache.logging.log4j.core.LogEvent

com.webmethods.management.jmx.Log4JMXAppender$ILog4JMXAppenderCallback: Parameter 1 of

'public void onEvent(org.apache.log4j.spi.LoggingEvent)' has changed its type to org.apache.logging.log4j.core.LogEvent

com.webmethods.portal.PortalException: Changed type of field logger from org.apache.log4j.Logger to org.slf4j.Logger

com.webmethods.portal.bizPolicy.command.access.RemoveSecurityRealm: Changed type of field logger from org.apache.log4j.Logger to org.slf4j.Logger

com.webmethods.portal.bizPolicy.command.task.rs.TaskHolder: Return type of method 'public java.lang.String getTaskData()' has been changed to java.util.Map

com.webmethods.portal.bizPolicy.command.task.rs.TaskHolder: Parameter 1 of 'public void setTaskData(java.lang.String)' has changed its type to java.util.Map

com.webmethods.portal.event.system.impl.LogMessageEvent: Changed type of field m_loggingEvent from org.apache.log4j.spi.LoggingEvent to org.apache.logging.log4j.core.LogEvent

com.webmethods.portal.event.system.impl.LogMessageEvent: Parameter 1 of 'public LogMessageEvent(org.apache.log4j.spi.LoggingEvent)' has changed its type to org.apache.logging.log4j.core.LogEvent

com.webmethods.portal.jms.db.impl.db2.EventPoll: Changed type of field logger from org.apache.log4j.Logger to org.slf4j.Logger

com.webmethods.portal.mech.task.impl.TaskCompletionHandler: In method 'public TaskCompletionHandler()' the number of arguments has changed

com.webmethods.portal.mech.task.impl.TaskCompletionHandlerIS: In method 'public TaskCompletionHandlerIS()' the number of arguments has changed

com.webmethods.portal.mech.task.impl.TaskTimedEventHandler: Accessibility of field logger has been weakened from protected to private

com.webmethods.portal.mech.task.impl.TaskTimedEventHandler: Return type of method 'public void processTaskTimedEvent(com.webmethods.portal.service.task.event.ITaskTimedEvent)' has been changed to boolean

com.webmethods.portal.service.logging.LoggingService: Parameter 2 of 'public void persistEvent(java.lang.Integer, org.apache.log4j.spi.LoggingEvent)' has changed its type to org.apache.logging.log4j.core.LogEvent

com.webmethods.portal.service.portlet.impl.BasePortletBean: Changed type of field m_logCategory from org.apache.log4j.Category to org.slf4j.Logger

com.webmethods.portal.service.sql.impl.JdbcUtil: Parameter 2 of 'public void logResultSet(java.sql.ResultSet, org.apache.log4j.Category)' has changed its type to org.slf4j.Logger

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesByTagCount: Method 'protected void orderParameters(com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo)' has been removed

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesByTagPaged: Method 'protected void orderParameters(com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo)' has been removed

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory: In method 'public void addTaskClassLoader(java.lang.String, java.net.URLClassLoader)' the number of arguments has changed

com.webmethods.portal.service.task.impl.TaskThing: Changed type of field m_pendingUpdates from int to java.util.concurrent.atomic.AtomicInteger

com.webmethods.portal.webservices.glue.SoapLogLayout: In method 'public SoapLogLayout()' the number of arguments has changed

com.webmethods.portal.webservices.wsclient.OldPortalArtifactFactory: Return type of method 'public java.lang.String validateSAMLResponse(javax.servlet.http.HttpServletRequest, java.lang.String)' has been changed to java.util.Map

com.webmethods.portal.webservices.wsclient.PortalArtifactFactory: Return type of method 'public java.lang.String validateSAMLResponse(javax.servlet.http.HttpServletRequest, java.lang.String)' has been changed to java.util.Map

com.webmethods.rtl.event.ecs.IJMSSupport: Method 'public com.webmethods.rtl.event.ecs.IJMSSupport$IJMSQueue createQueue(java.lang.String, boolean)' has been added to an interface

com.webmethods.rtl.event.ecs.IJMSSupport: Method 'public com.webmethods.rtl.event.ecs.IJMSSupport$IJMSTopic createTopic(java.lang.String, boolean, boolean)' has been added to an interface

com.webmethods.rtl.logging.LoggingUtils: Return type of method 'public org.apache.log4j.AppenderSkeleton getAppenderByName(java.lang.String)' has been changed to org.apache.logging.log4j.core.appender.AbstractAppender

com.webmethods.rtl.logging.LoggingUtils: Parameter 1 of 'public org.apache.log4j.Level getCategoryPriority(org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.logging.LoggingUtils: Return type of method 'public org.apache.log4j.Level getCategoryPriority(org.apache.log4j.Category)' has been changed to org.apache.logging.log4j.Level

com.webmethods.rtl.logging.LoggingUtils: Return type of method 'public org.apache.log4j.Category getLogCategory()' has been changed to org.apache.logging.log4j.Logger

com.webmethods.rtl.logging.LoggingUtils: Parameter 1 of 'public java.lang.String toString(org.apache.log4j.spi.LoggingEvent)' has changed its type to org.apache.logging.log4j.core.LogEvent

com.webmethods.rtl.logging.QueueJMSAppender: Removed org.apache.log4j.Appender from the set of implemented interfaces

com.webmethods.rtl.logging.QueueJMSAppender: Removed org.apache.log4j.spi.OptionHandler from the set of implemented interfaces

com.webmethods.rtl.logging.QueueJMSAppender: Removed org.apache.log4j.AppenderSkeleton from the list of superclasses

com.webmethods.rtl.logging.QueueJMSAppender: In method 'public QueueJMSAppender()' the number of arguments has changed

com.webmethods.rtl.logging.QueueJMSAppender: Accessibility of method 'public QueueJMSAppender()' has been decreased from public to protected

com.webmethods.rtl.logging.QueueJMSAppender: Parameter 1 of 'public void append(org.apache.log4j.spi.LoggingEvent)' has changed its type to org.apache.logging.log4j.core.LogEvent

com.webmethods.rtl.logging.QueueJMSAppender: Parameter 1 of 'public void publishEvent(org.apache.log4j.spi.LoggingEvent)' has changed its type to org.apache.logging.log4j.core.LogEvent

com.webmethods.rtl.logging.RunAsServiceConsoleFilter: Removed org.apache.log4j.spi.OptionHandler from the set of implemented interfaces

com.webmethods.rtl.logging.RunAsServiceConsoleFilter: Removed org.apache.log4j.spi.Filter from the list of superclasses

com.webmethods.rtl.logging.RunAsServiceConsoleFilter: In method 'public RunAsServiceConsoleFilter()' the number of arguments has changed

com.webmethods.rtl.logging.RunAsServiceConsoleFilter: Accessibility of method 'public RunAsServiceConsoleFilter()' has been decreased from public to private

com.webmethods.rtl.logging.SafeXMLLayout: Added final modifier to class

com.webmethods.rtl.logging.SafeXMLLayout: In method 'public SafeXMLLayout()' the number of arguments has changed

com.webmethods.rtl.logging.SafeXMLLayout: Accessibility of method 'public SafeXMLLayout()' has been decreased from public to private

com.webmethods.rtl.logging.SafeXMLLayout: In method 'public java.lang.String format(org.apache.log4j.spi.LoggingEvent)' the number of arguments has changed

com.webmethods.rtl.logging.SafeXMLLayout: Accessibility of method 'public java.lang.String format(org.apache.log4j.spi.LoggingEvent)' has been decreased from public to private

com.webmethods.rtl.mail.MailDataSource: Value of field DEFAULT_ENCODING is no longer a compile-time constant

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void assertCollection(java.util.Collection, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void assertCondition(boolean, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void assertMap(java.util.Map, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void assertObjectExists(java.lang.Object, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void assertStr(java.lang.String, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void debug(java.lang.String, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void debug(java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void debug(java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void debug(java.lang.String, java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void error(java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void error(java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void error(java.lang.String, java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void fatal(java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void fatal(java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void fatal(java.lang.String, java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void fatal(java.lang.String, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Return type of method 'public java.util.Enumeration getCategories()' has been changed to java.util.Map

com.webmethods.rtl.util.Debug: Return type of method 'public org.apache.log4j.Category getLogCategory(java.lang.String)' has been changed to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 1 of 'public boolean hasDebugPriority(org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 1 of 'public boolean

hasFatalPriority(org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 1 of 'public boolean hasInfoPriority(org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 1 of 'public boolean hasPriority(org.apache.log4j.Category, org.apache.log4j.Priority)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public boolean hasPriority(org.apache.log4j.Category, org.apache.log4j.Priority)' has changed its type to org.apache.logging.log4j.Level

com.webmethods.rtl.util.Debug: Parameter 1 of 'public boolean hasTracePriority(org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 1 of 'public boolean hasWarnPriority(org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void info(java.lang.String, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void info(java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void info(java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void info(java.lang.String, java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 1 of 'public com.webmethods.sc.logging.log4j.WmJournalLogger setContextJournalLogger(com.webmethods.sc.logging.log4j.WmJournalLogger)' has changed its type to com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

com.webmethods.rtl.util.Debug: Return type of method 'public com.webmethods.sc.logging.log4j.WmJournalLogger setContextJournalLogger(com.webmethods.sc.logging.log4j.WmJournalLogger)' has been changed to com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

com.webmethods.rtl.util.Debug: Parameter 1 of 'public void setDefaultJournalLogger(com.webmethods.sc.logging.log4j.WmJournalLogger)' has changed its type to com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void trace(java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void trace(java.lang.String, java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void warn(java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void warn(java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void warn(java.lang.String, java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void warn(java.lang.String, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.StringTools: Value of field BOOLEAN_FALSE is no longer a compile-time constant

com.webmethods.rtl.util.StringTools: Value of field BOOLEAN_TRUE is no longer a compile-time constant

com.webmethods.rtl.util.StringTools: Value of field SYSTEM_ENCODING is no longer a compile-time constant

com.webmethods.rtl.util.journal.ContextJournalLogger: Return type of method 'public com.webmethods.sc.logging.log4j.WmJournalLogger getContextJournalLogger()' has been changed to com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

com.webmethods.rtl.util.journal.ContextJournalLogger: Parameter 1 of 'public com.webmethods.sc.logging.log4j.WmJournalLogger setContextJournalLogger(com.webmethods.sc.logging.log4j.WmJournalLogger)' has changed its type to com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

com.webmethods.rtl.util.journal.ContextJournalLogger: Return type of method 'public com.webmethods.sc.logging.log4j.WmJournalLogger setContextJournalLogger(com.webmethods.sc.logging.log4j.WmJournalLogger)' has been changed to com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

com.webmethods.rtl.util.journal.ContextJournalLogger: Parameter 1 of 'public void setDefaultJournalLogger(com.webmethods.sc.logging.log4j.WmJournalLogger)' has changed its type to com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

Release 10.4

Added API	Description
com.softwareag.caf.controls.mwsx.PeopleSearchBarBean: Method 'public void setAvailableDirectories(com.webmethods.caf.faces.data.ISelectItemGroupProvider)' has been added	
com.softwareag.mws.screens.BaseScreenClass: Class com.softwareag.mws.screens.BaseScreenClass added	
com.softwareag.mws.screens.Constants: Class com.softwareag.mws.screens.Constants added	
com.softwareag.mws.screens.MWSLoginLogoutScreen: Class	

com.softwareag.mws.screens.MWSLoginLogoutScreen added

com.softwareag.mws.screens.applications.administration.systemwide.usermanagement.UsersScreen: Class
com.softwareag.mws.screens.applications.administration.systemwide.usermanagement.UsersScreen added

com.webmethods.caf.faces.data.dir.PeopleSearchProvider: Method 'protected java.util.List lookupRoles(com.webmethods.caf.faces.search.query.ISearchQuery, int, com.webmethods.portal.bizPolicy.IContext, java.lang.String, boolean)' has been added

com.webmethods.caf.faces.data.dir.PeopleSearchProvider: Method 'protected java.util.List lookupUsersOrGroups(com.webmethods.caf.faces.search.query.ISearchQuery, int, com.webmethods.portal.bizPolicy.IContext, java.lang.String, boolean)' has been added

com.webmethods.caf.faces.data.portal.system.ClusterServersTableContentProvider: Method 'public com.webmethods.portal.system.cluster.IServer$ServerType getServerType()' has been added

com.webmethods.caf.faces.data.task.impl.TaskIndexedSearchContentProvider$TaskSearchPagingService: Method 'protected java.util.List performSearch(com.webmethods.portal.service.task.TaskSearchQueryV2)' has been added

com.webmethods.caf.faces.data.task.impl.TaskIndexedSearchContentProvider$TaskSearchPagingService: Method 'protected int performSearchCount()' has been added

com.webmethods.caf.faces.render.html.HTMLResponseWriter: Added protected field matcher

com.webmethods.caf.portalclient.task.PCTaskHelper: Method 'public java.lang.String[] setInstancesStatus(java.lang.String, java.lang.String, java.lang.String, java.lang.Boolean, java.lang.Integer)' has been added

com.webmethods.caf.portalclient.task.task.ItaskPortType: Method 'public java.lang.String[] setInstancesStatus(java.lang.String, java.lang.String, java.lang.String, java.lang.Boolean, java.lang.Integer)' has been added to an interface

com.webmethods.caf.rules.impl.constant.ObjectArrayConstant: Method 'public java.lang.Object getConstant()' has been added

com.webmethods.caf.wsclient.saml.IArtifactFactory: Added public field SAML_VERSION_1_1

com.webmethods.caf.wsclient.saml.IArtifactFactory: Added public field SAML_VERSION_2_0

com.webmethods.caf.wsserver.auth.saml.ISamlConstants: Added public field SAML_ASSERTION

com.webmethods.portal.bizPolicy.biz.task.ITaskBizPolicy: Method 'public java.lang.String[] setInstancesStatus(com.webmethods.portal.bizPolicy.IContext, java.lang.String, java.lang.String, boolean, int)' has been added to an interface

com.webmethods.portal.bizPolicy.biz.task.impl.TaskBizPolicy: Method 'public java.lang.String[] setInstancesStatus(com.webmethods.portal.bizPolicy.IContext, java.lang.String, java.lang.String, boolean, int)' has been added

com.webmethods.portal.bizPolicy.biz.task.impl.TaskInfoExtended: Method 'public

com.webmethods.portal.service.task.ITask getTask()' has been added

com.webmethods.portal.bizPolicy.command.task.SetInstancesStatus:Class
com.webmethods.portal.bizPolicy.command.task.SetInstancesStatus added

com.webmethods.portal.bizPolicy.command.task.SetInstancesStatus$SetInstancesStatusCommandBean
: Class
com.webmethods.portal.bizPolicy.command.task.SetInstancesStatus$SetInstancesStatusCommandBean
added

com.webmethods.portal.bizPolicy.command.task.jms.SetInstancesStatusJMS: Class
com.webmethods.portal.bizPolicy.command.task.jms.SetInstancesStatusJMS added

com.webmethods.portal.bizPolicy.command.task.jms.api.TaskCommandJMS: Added public field
SET_INSTANCES_STATUS

com.webmethods.portal.bizPolicy.command.task.webservice.SetInstancesStatusWS: Class
com.webmethods.portal.bizPolicy.command.task.webservice.SetInstancesStatusWS added

com.webmethods.portal.bizPolicy.command.task.webservice.SetInstancesStatusWS$SetInstancesStatus
CommandBean: Class
com.webmethods.portal.bizPolicy.command.task.webservice.SetInstancesStatusWS$SetInstancesStatus
CommandBean added

com.webmethods.portal.framework.mech.install.StartWebApplications: Added public field
USE_MULTI_THREAD_STARTUP

com.webmethods.portal.mech.task.ITaskMechanics: Method 'public java.lang.String
canUpdateTask(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI,
java.util.Map)' has been added to an interface

com.webmethods.portal.mech.task.impl.TaskFacesHelper: Method 'public void
registerAdditionalRuleContextBean(java.lang.String, java.lang.Object)' has been added

com.webmethods.portal.service.install.impl.PdpInstallService: Method 'protected void
_doInstallPrepare(java.lang.String, java.util.Map)' has been added

com.webmethods.portal.service.meta2.IDBOStorageService: Method 'public void
createTables(com.webmethods.portal.service.portlet.info.IPortletInfo,
com.webmethods.portal.service.meta2.thing.IThingID, boolean)' has been added to an interface

com.webmethods.portal.service.meta2.impl.UserService: Method 'public void
clearUserIDByURICache()' has been added

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxes: Added public field
SYSTEM_PROPERTY_TE_TASK_SEARCH_INBOX_HINT

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory$TEServletContext: Method 'public
java.lang.ClassLoader getClassLoader()' has been added

com.webmethods.portal.system.cluster.IServer: Added public field SERVER_TYPE_KEY

com.webmethods.portal.system.cluster.IServer: Method 'public

com.webmethods.portal.system.cluster.IServer$ServerType getType()' has been added to an interface

com.webmethods.portal.system.cluster.IServer$ServerType: Class
com.webmethods.portal.system.cluster.IServer$ServerType added

com.webmethods.portal.system.cluster.impl.Server: Method 'public
com.webmethods.portal.system.cluster.IServer$ServerType getType()' has been added

com.webmethods.portal.system.cluster.impl.Server: Method 'public void
setServerType(com.webmethods.portal.system.cluster.IServer$ServerType)' has been added

com.webmethods.portal.system.lock.IClusterLock: Added java.lang.AutoCloseable to the set of
implemented interfaces

com.webmethods.portal.system.lock.IClusterLock: Method 'public void close()' has been added to an
interface

com.webmethods.portal.system.lock.impl.ClusterLock: Added java.lang.AutoCloseable to the set of
implemented interfaces

com.webmethods.portal.system.lock.impl.ClusterLock: Method 'public void close()' has been added

com.webmethods.rtl.jms.PortalClientOverJMS: Method 'public java.lang.String[]
setInstancesStatus(java.util.Map)' has been added

Removed API	Replacement, if any
com.webmethods.portal.framework.mech.install.StartWebApplications: Method 'protected void startWebApplications(com.webmethods.portal.service.install.IInstallService, com.webmethods.portal.service.view.IListView)' has been removed	
com.webmethods.portal.mech.socialendorsement.impl.EndorsementMechanics: Method 'public com.webmethods.portal.system.IURI lookupPrincipal(java.lang.Object, int)' has been removed	
com.webmethods.portal.mech.socialendorsement.impl.EndorsementMechanics: Method 'public com.webmethods.portal.system.IURI lookupPrincipal(java.lang.Object)' has been removed	
com.webmethods.portal.mech.task.impl.TaskHelper: Method 'public com.webmethods.portal.service.task.ITaskLockingService getTaskLockingService()' has been removed	
com.webmethods.portal.service.task.ITaskLock: Class com.webmethods.portal.service.task.ITaskLock removed	
com.webmethods.portal.service.task.ITaskLockingService: Class com.webmethods.portal.service.task.ITaskLockingService removed	
com.webmethods.portal.service.task.ITaskSystem: Method 'public com.webmethods.portal.service.task.ITaskLockingService getTaskLockingService()' has been removed	
com.webmethods.portal.service.task.impl.TaskDistributionService: Method 'protected java.util.List returnPagedTaskList(java.lang.String, java.lang.Object[], boolean)' has been removed	

com.webmethods.portal.service.task.impl.TaskLock: Class
com.webmethods.portal.service.task.impl.TaskLock removed

com.webmethods.portal.service.task.impl.TaskLockFailedException: Class
com.webmethods.portal.service.task.impl.TaskLockFailedException removed

com.webmethods.portal.service.task.impl.TaskLockingService: Class
com.webmethods.portal.service.task.impl.TaskLockingService removed

com.webmethods.portal.service.task.impl.TaskSystem: Method 'public
com.webmethods.portal.service.task.ITaskLockingService getTaskLockingService()' has been removed

com.webmethods.portal.system.cluster.impl.ClusterProvider: Field
DISTRIBUTED_EVENTS_ENABLED_ATTR has been removed, but it was previously a constant

Deprecated API	Replacement, if any

com.webmethods.rtl.util.FileUtil: Method 'public java.lang.String
getRealLocationAtISatTaskApp(java.lang.String, java.lang.String)' has been deprecated

Changed API	Description

com.webmethods.caf.faces.data.task.TaskDisplayProvider: Accessibility of field taskInfoKey has been
increased from private to protected

com.webmethods.portal.framework.mech.install.StartWebApplications: In method 'public void
startWebApplications()' the number of arguments has changed

com.webmethods.portal.framework.mech.install.StartWebApplications: Accessibility of method 'public
void startWebApplications()' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Field logger is now static

com.webmethods.portal.service.meta2.dbo.impl.DBOStorageService: In method 'public void
createTables(com.webmethods.portal.service.meta2.thing.IThingID, boolean)' the number of arguments
has changed

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll: Accessibility of field taskTables has
been increased from package to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$AcceptedByListFieldMapper:
Increased visibility of class from package to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$CurrentUserAcceptedFieldMapper:
Increased visibility of class from package to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$FieldMapper: Increased visibility of
class from package to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo: Increased visibility of class

from protected to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo: Accessibility of field hasBusinessDataFields has been increased from package to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo: Accessibility of field macros has been increased from package to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo:Accessibility of field params has been increased from package to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo: Accessibility of field sql has been increased from package to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo: Accessibility of method 'protected TaskSearchAll$QueryInfo()' has been increased from protected to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$TableDef: Increased visibility of class from package to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxes: Accessibility of field taskInboxTables has been increased from package to public

com.webmethods.portal.service.task.impl.TaskDistributionService:Accessibility of method 'protected int countTasks(com.webmethods.portal.service.task.ITaskSearchQueryExtended, com.webmethods.portal.service.task.SearchContext)' has been decreased from protected to private

com.webmethods.portal.service.task.impl.TaskDistributionService: Accessibility of method 'protected java.util.List getTaskList(com.webmethods.portal.service.task.ITaskSearchQueryExtended, com.webmethods.portal.service.task.SearchContext)' has been decreased from protected to private

Release 10.3

Added API	Description

com.softwareag.mws.screens.BaseScreenClass: Class com.softwareag.mws.screens.BaseScreenClass added

 com.softwareag.mws.screens.Constants: Class com.softwareag.mws.screens.Constants added

 com.softwareag.mws.screens.MWSLoginLogoutScreen: Class com.softwareag.mws.screens.MWSLoginLogoutScreen added

 com.softwareag.mws.screens.applications.administration.systemwide.usermanagement.UsersScreen: Class com.softwareag.mws.screens.applications.administration.systemwide.usermanagement.UsersScreen added

 com.webmethods.bpm.process.impl.BpmProcess: Method 'protected void loadFromIS()' has been added

com.webmethods.bpm.process.impl.BpmProcessManager: Method 'public BpmProcessManager()' has been added

com.webmethods.bpm.process.impl.BpmProcessManager: Method 'public java.lang.String getDatasourceLibMode()' has been added

com.webmethods.bpm.process.impl.BpmProcessManagerIS: Class com.webmethods.bpm.process.impl.BpmProcessManagerIS added

com.webmethods.bpm.process.impl.db.common.LoadProcessStepsIS: Class com.webmethods.bpm.process.impl.db.common.LoadProcessStepsIS added

com.webmethods.caf.common.ServerCommon: Class com.webmethods.caf.common.ServerCommon added

com.webmethods.caf.common.XMLUtil: Method 'public javax.xml.parsers.DocumentBuilderFactory getBuilderFactory()' has been added

com.webmethods.caf.common.XMLUtil: Method 'public javax.xml.parsers.SAXParserFactory getSAXParserFactory()' has been added

com.webmethods.caf.common.XMLUtil: Method 'public org.xml.sax.XMLReader getXMLParser(java.lang.ClassLoader)' has been added

com.webmethods.caf.faces.application.CAFValueExpression: Method 'public java.lang.Object getCAFValue(javax.el.ELContext)' has been added

com.webmethods.caf.faces.data.object.ObjectMethodContentProvider: Method 'protected boolean isSessionExpired()' has been added

com.webmethods.caf.faces.data.task.TaskBusinessCalendarModel: Method 'protected com.webmethods.sc.calendar.IWorkdayCalendar getCalendarByID(java.lang.String)' has been added

com.webmethods.caf.faces.data.ws.wss.WSSContentProvider: Method 'protected boolean isSessionExpired()' has been added

com.webmethods.caf.faces.portlet.PortletViewHandler: Method 'protected java.lang.String convertViewId(javax.faces.context.FacesContext, java.lang.String)' has been added

com.webmethods.caf.faces.render.html.input.DateInputRenderer: Method 'protected java.lang.Object convertDate(javax.faces.context.FacesContext, javax.faces.component.UIComponent, java.lang.Object, boolean, boolean)' has been added

com.webmethods.caf.wsclient.util.WSClientUtil: Method 'public java.util.Map constructClientAPI(java.lang.Class, java.lang.String, java.lang.String)' has been added

com.webmethods.caf.wsclient.util.WSClientUtil: Method 'public void reloadResource(java.lang.Class)' has been added

com.webmethods.caf.wsclient.util.XSDDateFormatMWS: Class com.webmethods.caf.wsclient.util.XSDDateFormatMWS added

com.webmethods.portal.bizPolicy.command.install.InstallBootstrapComponentsWithDependencies: Method 'protected boolean checkRealLocation(java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.install.InstallBootstrapComponentsWithDependencies: Method 'protected java.lang.String getComponentRealLocation(java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.system.xml.XMLImportContent: Method 'protected boolean checkResourceExists(java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.system.xml.XMLImportIncludeIS: Method 'protected java.io.InputStream getISTaskAppStream(java.lang.String, java.lang.String)' has been added

com.webmethods.portal.bizPolicy.impl.BootstrapPhase: Method 'protected void waitForOSGIServices()' has been added

com.webmethods.portal.jms.JMSPhaseProvider: Method 'protected void bindGlobalProvider(com.webmethods.portal.service.global.IGlobalProvider)' has been added

com.webmethods.portal.jms.JMSPhaseProvider: Method 'protected void bindRemoteEventDelivery(com.webmethods.portal.system.init.IInitializable)' has been added

com.webmethods.portal.mech.dir.impl.DirMechanicsUtils: Method 'public com.webmethods.portal.service.meta2.IUserService getUserService()' has been added

com.webmethods.portal.mech.dir.impl.DirMechanicsUtils: Method 'public com.webmethods.portal.service.meta2.thing.IThingID initializeUserWithResult(com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.mech.dir.impl.DirMechanicsUtils: Method 'public void initializeUser(com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.mech.install.impl.BasicInstallMechanics: Method 'protected boolean checkNeedsComponent(java.util.List, java.lang.String)' has been added

com.webmethods.portal.mech.install.impl.BasicInstallMechanics: Method 'protected java.lang.String getComponentLocationToRealLocation(java.lang.String)' has been added

com.webmethods.portal.mech.install.impl.InstallResolver: Method 'public void init(com.webmethods.portal.system.IComponentData, java.lang.String)' has been added

com.webmethods.portal.mech.install.impl.PortletInstallMechanics: Method 'protected com.webmethods.portal.service.portlet.info.IPortletInfo loadPortletInfo(java.lang.String)' has been added

com.webmethods.portal.mech.install.impl.UpgradeInstallComponentData: Method 'protected java.lang.String getComponentLocationToRealLocation(java.lang.String)' has been added

com.webmethods.portal.mech.portlet.IPortletProviderMechanics: Method 'public com.webmethods.portal.service.portlet.info.IPortletInfo getPortletInfo(java.io.InputStream, java.io.InputStream)' has been added to an interface

com.webmethods.portal.mech.portlet.impl.PortletProviderMechanics: Method 'public com.webmethods.portal.service.portlet.info.IPortletInfo getPortletInfo(java.io.InputStream, java.io.InputStream)' has been added

com.webmethods.portal.mech.portlet.impl.PortletProviderMechanics: Method 'public void

init(com.webmethods.portal.system.IComponentData, java.lang.String)' has been added

com.webmethods.portal.mech.socialbpm.comments.impl.CommentsMechanics: Method 'public com.webmethods.portal.service.meta2.thing.IThingID getThingID(com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.mech.sql.impl.ConnectionManagerMechanicsIS: Class com.webmethods.portal.mech.sql.impl.ConnectionManagerMechanicsIS added

com.webmethods.portal.mech.task.ITaskHelper: Method 'public com.webmethods.portal.system.lock.IClusterLockingService getLockingService()' has been added to an interface

com.webmethods.portal.mech.task.impl.TaskChangeHandler: Method 'public TaskChangeHandler()' has been added

com.webmethods.portal.mech.task.impl.TaskChangeHandlerIS: Method 'public void ensureTaskLwqFileExist(java.lang.String)' has been added

com.webmethods.portal.mech.task.impl.TaskCompletionHandlerIS: Class com.webmethods.portal.mech.task.impl.TaskCompletionHandlerIS added

com.webmethods.portal.mech.task.impl.TaskHelper: Method 'public com.webmethods.portal.system.lock.IClusterLockingService getLockingService()' has been added

com.webmethods.portal.mech.task.impl.TaskHelperService: Method 'public com.webmethods.portal.system.lock.IClusterLockingService getLockingService()' has been added

com.webmethods.portal.mech.task.impl.TaskMechanics: Method 'protected void initHandlers(com.webmethods.portal.system.IComponentData, java.lang.String)' has been added

com.webmethods.portal.mech.task.impl.TaskMechanicsIS: Method 'protected void initHandlers(com.webmethods.portal.system.IComponentData, java.lang.String)' has been added

com.webmethods.portal.mech.task.impl.TaskScheduleHandlerIS: Class com.webmethods.portal.mech.task.impl.TaskScheduleHandlerIS added

com.webmethods.portal.mech.task.impl.TaskTimedEventHandlerIS: Class com.webmethods.portal.mech.task.impl.TaskTimedEventHandlerIS added

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public boolean isForceNewTab(com.webmethods.portal.service.view.IView)' has been added

com.webmethods.portal.service.dir.IDirPrincipal: Method 'public boolean isInitialized()' has been added to an interface

com.webmethods.portal.service.dir.impl.DirSystem: Method 'public void onSynchronousEvent(com.webmethods.portal.event.dir.IDirPrincipalDeleteEvent)' has been added

com.webmethods.portal.service.install.impl.BaseInstallService: Method 'protected java.lang.String getResourceLocation(java.lang.String, java.lang.String)' has been added

com.webmethods.portal.service.install.impl.BaseInstallService: Method 'protected void registerComponent(com.webmethods.portal.system.IInitializableComponentData, java.lang.String)'

has been added

com.webmethods.portal.service.install.impl.PdpInstallService: Method 'protected com.webmethods.portal.schema.wmportletapp.PortletType _loadPortletType(java.util.Map)' has been added

com.webmethods.portal.service.install.impl.PdpInstallService: Method 'protected void _doRegisterComponent(java.util.Map)' has been added

com.webmethods.portal.service.install.impl.PdpInstallService: Method 'protected void _saveTempPortletInitData(java.util.Map)' has been added

com.webmethods.portal.service.meta2.util.ThingHelper: Class com.webmethods.portal.service.meta2.util.ThingHelper added

com.webmethods.portal.service.portlet.IPortletProvider: Method 'public com.webmethods.portal.service.portlet.info.IPortletInfo getPortletInfo(java.io.InputStream, java.io.InputStream)' has been added to an interface

com.webmethods.portal.service.portlet.impl.PortletProvider: Method 'public com.webmethods.portal.service.portlet.info.IPortletInfo getPortletInfo(java.io.InputStream, java.io.InputStream)' has been added

com.webmethods.portal.service.socialbpm.comments.impl.CommentsServiceIS: Class com.webmethods.portal.service.socialbpm.comments.impl.CommentsServiceIS added

com.webmethods.portal.service.sql.ISqlWorker: Method 'public void close()' has been added to an interface

com.webmethods.portal.service.sql.core.BaseSqlWorker: Method 'public boolean isCurrentlyInUse()' has been added

com.webmethods.portal.service.sql.core.BaseSqlWorker: Method 'public void close()' has been added

com.webmethods.portal.service.sql.runtime.base.CommentEntryUserDeleted: Class com.webmethods.portal.service.sql.runtime.base.CommentEntryUserDeleted added

com.webmethods.portal.service.task.ITaskDefinition: Method 'public com.softwareag.caf.shared.task.core.model.TaskDataDefTable getTaskDataTable()' has been added to an interface

com.webmethods.portal.service.task.ITaskSystem: Method 'public com.webmethods.portal.system.lock.IClusterLockingService getLockingService()' has been added to an interface

com.webmethods.portal.service.task.event.impl.TaskChangedEvent: Method 'public boolean isHiddenUpdate()' has been added

com.webmethods.portal.service.task.event.impl.TaskChangedEvent: Method 'public void setHiddenUpdate(boolean)' has been added

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory: Method 'public java.net.URLClassLoader getTaskClassLoader(java.lang.String)' has been added

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory: Method 'public void removeTaskClassLoader(java.lang.String)' has been added

com.webmethods.portal.service.task.impl.TaskDefinitionView: Method 'public com.softwareag.caf.shared.task.core.model.TaskDataDefTable getTaskDataTable()' has been added

com.webmethods.portal.service.task.impl.TaskDistributionServiceIS: Class com.webmethods.portal.service.task.impl.TaskDistributionServiceIS added

com.webmethods.portal.service.task.impl.TaskProcessAuditServiceIS: Class com.webmethods.portal.service.task.impl.TaskProcessAuditServiceIS added

com.webmethods.portal.service.task.impl.TaskSystem: Method 'protected void bindClusterLockingService(com.webmethods.portal.system.lock.IClusterLockingService)' has been added

com.webmethods.portal.service.task.impl.TaskSystem: Method 'public com.webmethods.portal.system.lock.IClusterLockingService getLockingService()' has been added

com.webmethods.portal.system.BaseComponent: Method 'protected void bindGlobalProvider(com.webmethods.portal.service.global.IGlobalProvider)' has been added

com.webmethods.portal.system.PortalSystem: Method 'public boolean isTELibrary()' has been added

com.webmethods.portal.system.init.impl.ClusterPhaseProvider: Method 'protected java.lang.String getLocalConfigRootPath()' has been added

com.webmethods.portal.system.init.impl.ClusterPhaseProvider: Method 'protected void initDbConnection()' has been added

com.webmethods.portal.system.lock.impl.LockKey: Class com.webmethods.portal.system.lock.impl.LockKey added

com.webmethods.portal.webapp.jetty7.WebApplicationInstallService: Method 'protected java.lang.String checkTaskAppVersionIsUptodate(java.lang.String)' has been added

com.webmethods.portal.webapp.jetty7.WebApplicationInstallService: Method 'protected void fixOldTaskClasses(java.io.File, java.lang.String)' has been added

com.webmethods.rtl.locator.impl.ClassLocator: Method 'public ClassLocator(java.lang.String, java.lang.String)' has been added

com.webmethods.rtl.tools.PrettyProperties$NameValue: Class com.webmethods.rtl.tools.PrettyProperties$NameValue added

com.webmethods.rtl.tools.PrettyProperties: Class com.webmethods.rtl.tools.PrettyProperties added

com.webmethods.rtl.util.xml.XMLUtil: Method 'public java.lang.String toString(org.w3c.dom.Node, int, boolean)' has been added

com.webmethods.caf.faces.portlet.PortletViewHandler: Added com.sun.faces.application.view.MultiViewHandler to the list of superclasses

com.webmethods.caf.jcr.faces.data.query.PropertySearchTerm: Added protected field sRandom

com.webmethods.caf.wsclient.proxy.impl.WSClientDynamicProxy: Added public field REMOVE_WSDL_FROM_GLUE_CACHE

com.webmethods.mws.acdl.GenerateAcdlForProject: Added public field OPTION_IS_TASK_ENGINE

com.webmethods.portal.bizPolicy.command.task.webservice.QueueTaskWS: Added protected field DELAY_DEFAULT_VALUE

com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler: Added public field DB_ATTRIBUTES_PROVIDER

com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler: Added public field DB_ATTR_TITLE

com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler: Added public field LDAP_ATTRIBUTES_PROVIDER

com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler: Added public field LDAP_ATTR_TITLE

com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler: Added public field PROFILE_ATTRIBUTES_PROVIDER

com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler: Added public field USER_INFORMATION_TITLE

com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler: Added public field USER_PROFILE_ATTR_TITLE

com.webmethods.portal.framework.presentation.renderers.DefaultRenderer: Added public field CONTENT_SECURITY_CUSTOM_HOSTS_PROP

com.webmethods.portal.framework.presentation.renderers.DefaultRenderer: Added public field CONTENT_SECURITY_DISABLED_PROP

com.webmethods.portal.framework.presentation.renderers.DefaultRenderer: Added public field CONTENT_SECURITY_POLICY_ENABLED

com.webmethods.portal.service.dir.impl.DirSystem: Added com.webmethods.portal.event.dir.IDirPrincipalDeleteEvent$ISynchronousListener to the set of implemented interfaces

com.webmethods.portal.service.sql.ISqlWorker: Added java.lang.AutoCloseable to the set of implemented interfaces

com.webmethods.portal.service.sql.core.BaseSqlWorker: Added java.lang.AutoCloseable to the set of implemented interfaces

com.webmethods.portal.service.sql.core.ConnectionManager: Added public field ORACLE_URL_PARSER_EXPRESSION_SERVICENAME

com.webmethods.portal.service.sql.core.ConnectionManager: Added public field ORACLE_URL_TEMPLATE_SERVICENAME

com.webmethods.portal.service.task.event.impl.TaskChangedEvent: Added protected field hiddenUpdate

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory: Added public field TASK_ASSETS_HOME_PROP

com.webmethods.portal.system.PortalSystem: Added public field TASK_ENGINE_LIBRARY_MODE

com.webmethods.rtl.locator.impl.StreamLocatorFactory: Added public field TEMP_PROTOCOL

Removed API	Replacement, if any
com.webmethods.caf.faces.portlet.PortletViewHandler: Method 'public java.lang.Object getWrapped()' has been removed	
com.webmethods.caf.faces.portlet.PortletViewHandler: Method 'public javax.faces.application.ViewHandler getWrapped()' has been removed	
com.webmethods.portal.bizPolicy.command.dir.rs.BasePrincipalResource: Method 'protected java.util.List getProfileAttributes(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.service.dir.IDirPrincipal)' has been removed	
com.webmethods.portal.bizPolicy.command.system.xml.XMLImportContextIS: Method 'protected com.webmethods.portal.system.IURI importNode(com.webmethods.portal.bizPolicy.IContext, org.w3c.dom.Element, com.webmethods.portal.system.IURI, java.util.List)' has been removed, but an inherited definition exists.	
com.webmethods.portal.event.impl.RemoteEventDeliveryInitializer: Method 'protected void bindJMSPhaseProvider(com.webmethods.portal.system.IComponent)' has been removed	
com.webmethods.portal.framework.mech.install.PortletAppilcationInstallMechanics: Method 'protected void clearContextRequestAttributes(com.webmethods.portal.bizPolicy.IContext)' has been removed	
com.webmethods.portal.mech.task.ITaskHelper: Method 'public com.webmethods.portal.service.task.ITaskLockingService getTaskLockingService()' has been removed	
com.webmethods.portal.mech.task.impl.TaskHelperService: Method 'public com.webmethods.portal.service.task.ITaskLockingService getTaskLockingService()' has been removed	
com.webmethods.portal.mech.task.impl.TaskMechanicsIS: Method 'protected com.webmethods.portal.service.task.ITaskList listTasks(com.webmethods.portal.system.IURI, com.webmethods.portal.service.task.TaskSearchQuery, boolean, boolean)' has been removed, but an inherited definition exists.	
com.webmethods.portal.service.task.ITaskLockingService: Method 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long)' has been removed	
com.webmethods.portal.service.task.ITaskLockingService: Method 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI,	

com.webmethods.portal.system.IURI, long, long, boolean)' has been removed

 com.webmethods.portal.service.task.impl.TaskClassLoaderFactory$ITaskClassLoader: Class com.webmethods.portal.service.task.impl.TaskClassLoaderFactory$ITaskClassLoader removed

 com.webmethods.portal.service.task.impl.TaskLockingService: Method 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long)' has been removed

 com.webmethods.portal.service.task.impl.TaskLockingService: Method 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long, boolean)' has been removed

 com.webmethods.portal.service.task.impl.TaskLockingService: Method 'public long getDbTimeOffset()' has been removed

 com.webmethods.portal.system.lock.impl.ClusterLockingService: Method 'public long getDbTimeOffset()' has been removed

 com.webmethods.rtl.util.PrettyProperties$NameValue: Class com.webmethods.rtl.util.PrettyProperties$NameValue removed

 com.webmethods.rtl.util.PrettyProperties: Class com.webmethods.rtl.util.PrettyProperties removed

 com.webmethods.caf.faces.portlet.PortletViewHandler: Removed field wrapped

 com.webmethods.caf.faces.portlet.PortletViewHandler: Removed javax.faces.FacesWrapper from the set of implemented interfaces

 com.webmethods.caf.faces.portlet.PortletViewHandler: Removed javax.faces.application.ViewHandlerWrapper from the list of superclasses

 com.webmethods.caf.jcr.faces.data.query.PropertySearchTerm: Removed field random

 com.webmethods.portal.mech.task.impl.TaskMechanics: Removed field MIN_INBOX_SEARCH_THREADS

 com.webmethods.portal.mech.task.impl.TaskMechanics: Removed field MIN_TASK_UPDATE_THREADS

Deprecated API	Replacement, if any

com.webmethods.portal.mech.task.impl.TaskHelper: Method 'public com.webmethods.portal.service.task.ITaskLockingService getTaskLockingService()' has been deprecated

 com.webmethods.portal.service.sql.ISqlWorker: Method 'public void release()' has been deprecated

 com.webmethods.portal.service.sql.core.BaseSqlWorker: Method 'public void release()' has been deprecated

Changed API	Description

com.webmethods.caf.faces.component.output.ChartDataColumn: Parameter 1 of 'public void setItemValue(java.lang.Number)' has changed its type to java.lang.Object

com.webmethods.caf.faces.component.output.ChartDataColumn: Return type of method 'public java.lang.Number getItemValue()' has been changed to java.lang.Object

com.webmethods.caf.faces.portlet.PortletViewHandler: In method 'public PortletViewHandler(javax.faces.application.ViewHandler)' the number of arguments has changed

com.webmethods.caf.faces.render.html.input.DateInputRenderer: In method 'protected void writeTimeZone(javax.faces.context.FacesContext, javax.faces.component.UIComponent, java.util.Date)' the number of arguments has changed

com.webmethods.portal.mech.task.impl.TaskMechanics: In method 'public void fireTaskChangedEvent(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, com.webmethods.portal.service.task.ITask, com.webmethods.portal.service.task.ITask, java.lang.Object, java.lang.Object, int, boolean)' the number of arguments has changed

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory: In method 'public java.lang.Object getTaskInstance(java.lang.String)' the number of arguments has changed

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory: In method 'public void addTaskClassLoader(com.webmethods.portal.service.task.impl.TaskClassLoaderFactory$ITaskClassLoader)' the number of arguments has changed

com.webmethods.portal.system.lock.IClusterLockingService: In method 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long, boolean)' the number of arguments has changed

com.webmethods.portal.system.lock.IClusterLockingService: Parameter 2 of 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long)' has changed its type to long

com.webmethods.portal.system.lock.IClusterLockingService: Parameter 4 of 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long)' has changed its type to boolean

com.webmethods.portal.system.lock.impl.ClusterLockingService: In method 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long, boolean)' the number of arguments has changed

com.webmethods.portal.system.lock.impl.ClusterLockingService: Parameter 2 of 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long)' has changed its type to long

com.webmethods.portal.system.lock.impl.ClusterLockingService: Parameter 4 of 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long)' has changed its type to boolean

com.webmethods.rtl.util.xml.XMLUtil: In method 'protected void _dumpXML(org.w3c.dom.Node,

java.io.Writer, int, int)' the number of arguments has changed

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Added API	Description
com.softwareag.mws.screens.BaseScreenClass Class com.softwareag.mws.screens.BaseScreenClass added	
com.softwareag.mws.screens.Constants Class com.softwareag.mws.screens.Constants added	
com.softwareag.mws.screens.MWSLoginLogoutScreen Class com.softwareag.mws.screens.MWSLoginLogoutScreen added	
com.softwareag.mws.screens.applications.administration.systemwide.usermanagement.UsersScreen Class com.softwareag.mws.screens.applications.administration.systemwide.usermanagement.UsersScreen added	
com.webmethods.caf.common.cipher.MWSCipherDataStore Class com.webmethods.caf.common.cipher.MWSCipherDataStore added	
com.webmethods.caf.common.cipher.MWSCipherMasterPassword Class com.webmethods.caf.common.cipher.MWSCipherMasterPassword added	
com.webmethods.caf.common.cipher.SecretDS Class com.webmethods.caf.common.cipher.SecretDS added	
com.webmethods.caf.faces.component.util.ShadowComponentMapCacheEntry Class com.webmethods.caf.faces.component.util.ShadowComponentMapCacheEntry added	
com.webmethods.caf.faces.data.attachments.BasePortalContainerAttachmentsProvider Method 'public java.lang.String getEncoding(java.lang.String)' has been added	
com.webmethods.caf.faces.data.comments.impl.CommentsListProvider Method 'public com.webmethods.portal.service.access.IAclManager createAclManager(java.lang.String, java.lang.String)' has been added	
com.webmethods.portal.bizPolicy.biz.task.impl.TaskAuditBizPolicy Method 'public java.util.Collection getWebServiceCommands(com.webmethods.portal.bizPolicy.IContext)' has been added	
com.webmethods.portal.bizPolicy.command.IJSONAdapter Method 'public java.util.Map getSchemaFields(java.lang.Class, java.util.Map, com.webmethods.portal.bizPolicy.command.IJSONAdapterFactory, java.util.Map)' has been added to an interface	
com.webmethods.portal.bizPolicy.command.IJSONAdapterFactory Method 'public java.util.Map getSchemaFields(java.lang.Class, java.util.Map, java.util.Map)' has been added to an interface	
com.webmethods.portal.bizPolicy.command.alias.SetThingAliases Method 'protected void checkAccess(com.webmethods.portal.bizPolicy.IContext,	

com.webmethods.portal.mech.alias.IAliasMechanics, com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.bizPolicy.command.dir.rs.BasePrincipalResource Method 'protected java.util.List getProfileAttributes(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.service.dir.IDirPrincipal)' has been added

com.webmethods.portal.bizPolicy.command.dir.rs.BasePrincipalResource Method 'public javax.ws.rs.core.Response getPersonalData(javax.servlet.http.HttpServletRequest, java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.dir.rs.DirJSONAdapter Method 'public java.util.Map getSchemaFields(java.lang.Class, java.util.Map, com.webmethods.portal.bizPolicy.command.IJSONAdapterFactory, java.util.Map)' has been added

com.webmethods.portal.bizPolicy.command.impl.CommandBean Method 'protected java.text.SimpleDateFormat getSDF()' has been added

com.webmethods.portal.bizPolicy.command.impl.CommandBean Method 'protected java.text.SimpleDateFormat getSDFDotNet()' has been added

com.webmethods.portal.bizPolicy.command.impl.JSONAdapterFactory Method 'public java.util.Map getSchemaFields(java.lang.Class, java.util.Map, java.util.Map)' has been added

com.webmethods.portal.bizPolicy.command.impl.rs.AbstractJSONAdapter Class com.webmethods.portal.bizPolicy.command.impl.rs.AbstractJSONAdapter added

com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource Method 'protected java.lang.String sanitizeMessage(java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource Method 'protected javax.ws.rs.core.Response sendException(javax.servlet.http.HttpServletRequest, java.lang.Exception, java.lang.String, int)' has been added

com.webmethods.portal.bizPolicy.command.impl.rs.BasicJSONAdapter Method 'protected com.webmethods.portal.service.view.IView getView(com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.bizPolicy.command.impl.rs.BasicJSONAdapter Method 'protected void addIfNotSetAndNonNullValue(java.lang.String, java.lang.Object, java.util.Map)' has been added

com.webmethods.portal.bizPolicy.command.impl.rs.BasicJSONAdapter Method 'public java.util.Map getSchemaFields(java.lang.Class, java.util.Map, com.webmethods.portal.bizPolicy.command.IJSONAdapterFactory, java.util.Map)' has been added

com.webmethods.portal.bizPolicy.command.impl.rs.BizPolicyResource Class com.webmethods.portal.bizPolicy.command.impl.rs.BizPolicyResource added

com.webmethods.portal.bizPolicy.command.impl.rs.CommandDocBuilder Class com.webmethods.portal.bizPolicy.command.impl.rs.CommandDocBuilder added

com.webmethods.portal.bizPolicy.command.impl.rs.CommandResource Method 'public javax.ws.rs.core.Response getCommandSpecification(javax.servlet.http.HttpServletRequest,

javax.servlet.http.HttpServletResponse, java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.impl.rs.CommandResource Method 'public javax.ws.rs.core.Response getSpecification(javax.servlet.http.HttpServletRequest)' has been added

com.webmethods.portal.bizPolicy.command.impl.rs.ConnectionInfoJSONAdapter Method 'public java.util.Map getSchemaFields(java.lang.Class, java.util.Map, com.webmethods.portal.bizPolicy.command.IJSONAdapterFactory, java.util.Map)' has been added

com.webmethods.portal.bizPolicy.command.impl.rs.DefaultJSONAdapter Class com.webmethods.portal.bizPolicy.command.impl.rs.DefaultJSONAdapter added

com.webmethods.portal.bizPolicy.command.impl.rs.util.FluentList Class com.webmethods.portal.bizPolicy.command.impl.rs.util.FluentList added

com.webmethods.portal.bizPolicy.command.impl.rs.util.FluentMap Class com.webmethods.portal.bizPolicy.command.impl.rs.util.FluentMap added

com.webmethods.portal.bizPolicy.command.impl.rs.util.FluentOrderedMap Class com.webmethods.portal.bizPolicy.command.impl.rs.util.FluentOrderedMap added

com.webmethods.portal.bizPolicy.command.impl.rs.util.IFluentMap Class com.webmethods.portal.bizPolicy.command.impl.rs.util.IFluentMap added

com.webmethods.portal.bizPolicy.command.page.ModifyPage2IS Class com.webmethods.portal.bizPolicy.command.page.ModifyPage2IS added

com.webmethods.portal.bizPolicy.command.system.xml.XMLImportContextIS Class com.webmethods.portal.bizPolicy.command.system.xml.XMLImportContextIS added

com.webmethods.portal.bizPolicy.command.system.xml.XMLImportIncludeIS Class com.webmethods.portal.bizPolicy.command.system.xml.XMLImportIncludeIS added

com.webmethods.portal.bizPolicy.command.task.rs.TaskJSONAdapter Class com.webmethods.portal.bizPolicy.command.task.rs.TaskJSONAdapter added

com.webmethods.portal.bizPolicy.command.task.webservice.UpdateTaskAttachmentWS$UpdateTask AttachmentCommandBean Method 'protected boolean excludePropertyDescriptor(java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.task.webservice.UpdateTaskAttachmentWS$UpdateTask AttachmentCommandBean Method 'public void setAttachmentID(java.lang.String)' has been added

com.webmethods.portal.event.dir.IDirPrincipalDeleteEvent Method 'public com.webmethods.portal.service.meta2.thing.IThingID getGetDirectoryServiceThingID()' has been added to an interface

com.webmethods.portal.event.dir.IDirPrincipalDeleteEvent Method 'public com.webmethods.portal.system.IURI getDirectoryURI()' has been added to an interface

com.webmethods.portal.event.dir.IDirPrincipalDeleteEvent Method 'public java.lang.String

getEmail()' has been added to an interface

com.webmethods.portal.event.dir.IDirPrincipalDeleteEvent Method 'public java.lang.String getPrincipalDN()' has been added to an interface

com.webmethods.portal.event.dir.IDirPrincipalModifyEvent Method 'public java.lang.Object getPropertyOldValue()' has been added to an interface

com.webmethods.portal.event.dir.impl.DirPrincipalDeleteEvent Method 'public DirPrincipalDeleteEvent(com.webmethods.portal.service.dir.IDirPrincipal, com.webmethods.portal.service.dir.IDirPrincipalList, com.webmethods.portal.service.dir.IDirPrincipalList, com.webmethods.portal.service.meta2.thing.IThingID)' has been added

com.webmethods.portal.event.dir.impl.DirPrincipalDeleteEvent Method 'public com.webmethods.portal.service.meta2.thing.IThingID getGetDirectoryServiceThingID()' has been added

com.webmethods.portal.event.dir.impl.DirPrincipalDeleteEvent Method 'public com.webmethods.portal.system.IURI getDirectoryURI()' has been added

com.webmethods.portal.event.dir.impl.DirPrincipalDeleteEvent Method 'public com.webmethods.portal.system.IURI getPrincipalURI()' has been added

com.webmethods.portal.event.dir.impl.DirPrincipalDeleteEvent Method 'public java.lang.String getEmail()' has been added

com.webmethods.portal.event.dir.impl.DirPrincipalDeleteEvent Method 'public java.lang.String getPrincipalDN()' has been added

com.webmethods.portal.event.dir.impl.DirPrincipalModifyEvent Method 'public DirPrincipalModifyEvent(com.webmethods.portal.system.IURI, com.webmethods.portal.service.meta2.thing.IThingID, java.lang.String, java.lang.Object, java.lang.Object, com.webmethods.portal.service.meta2.thing.IThingID)' has been added

com.webmethods.portal.event.dir.impl.DirPrincipalModifyEvent Method 'public DirPrincipalModifyEvent(com.webmethods.portal.system.IURI, java.lang.String, java.lang.Object, java.lang.Object, com.webmethods.portal.service.meta2.thing.IThingID)' has been added

com.webmethods.portal.event.dir.impl.DirPrincipalModifyEvent Method 'public java.lang.Object getPropertyOldValue()' has been added

com.webmethods.portal.event.system.IDistributedConfigChangedEvent Class com.webmethods.portal.event.system.IDistributedConfigChangedEvent added

com.webmethods.portal.event.system.IDistributedConfigChangedEvent$IListener Class com.webmethods.portal.event.system.IDistributedConfigChangedEvent$IListener added

com.webmethods.portal.event.system.IDistributedConfigChangedEvent$ISynchronousListener Class com.webmethods.portal.event.system.IDistributedConfigChangedEvent$ISynchronousListener added

com.webmethods.portal.event.system.IDistributedConfigChangedEvent$Listeners Class com.webmethods.portal.event.system.IDistributedConfigChangedEvent$Listeners added

com.webmethods.portal.event.system.IDistributedConfigChangedEvent$SynchronousListeners Class
com.webmethods.portal.event.system.IDistributedConfigChangedEvent$SynchronousListeners added

com.webmethods.portal.event.system.impl.DistributedConfigChangedEvent Class
com.webmethods.portal.event.system.impl.DistributedConfigChangedEvent added

com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler Class
com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler added

com.webmethods.portal.framework.session.handlers.LoginScript Method 'protected void
bindSystemPolicy(com.webmethods.portal.bizPolicy.biz.system.ISystemPolicy)' has been added

com.webmethods.portal.framework.session.handlers.Validate Method 'protected void
bindJMSPhaseProvider(com.webmethods.portal.system.IComponent)' has been added

com.webmethods.portal.framework.session.impl.SessionManager Method 'protected void
bindAuthManager(com.webmethods.portal.framework.IAuthManager)' has been added

com.webmethods.portal.jms.db.impl.db2.PurgeEvents Method 'protected java.lang.String
getDeleteEventsQuery()' has been added

com.webmethods.portal.jms.um.UmJMSConnProvider Method 'protected void
registerJMSObjects(org.w3c.dom.Element)' has been added

com.webmethods.portal.mech.dir.IDirServiceMechanics Method 'public void
fireDeletePrincipalEvent(com.webmethods.portal.service.dir.IDirPrincipal,
com.webmethods.portal.service.dir.IDirPrincipalList,
com.webmethods.portal.service.dir.IDirPrincipalList)' has been added to an interface

com.webmethods.portal.mech.dir.IPrincipalAttributeMechanics Method 'public void
fireModifyPrincipalEvent(com.webmethods.portal.service.meta2.thing.IThingID,
com.webmethods.portal.system.IURI, com.webmethods.portal.service.meta2.thing.IThingID,
java.lang.String, java.lang.Object, java.lang.Object)' has been added to an interface

com.webmethods.portal.mech.dir.impl.DirServiceMechanics Method 'protected boolean
isUserPrivacyEnabled()' has been added

com.webmethods.portal.mech.dir.impl.DirServiceMechanics Method 'public void
fireDeletePrincipalEvent(com.webmethods.portal.service.dir.IDirPrincipal,
com.webmethods.portal.service.dir.IDirPrincipalList,
com.webmethods.portal.service.dir.IDirPrincipalList)' has been added

com.webmethods.portal.mech.dir.impl.PrincipalAttributeMechanics Method 'public void
fireModifyPrincipalEvent(com.webmethods.portal.service.meta2.thing.IThingID,
com.webmethods.portal.system.IURI, com.webmethods.portal.service.meta2.thing.IThingID,
java.lang.String, java.lang.Object, java.lang.Object)' has been added

com.webmethods.portal.mech.rules.impl.TEELContext Class
com.webmethods.portal.mech.rules.impl.TEELContext added

com.webmethods.portal.mech.rules.impl.TEExpressionResolver Class
com.webmethods.portal.mech.rules.impl.TEExpressionResolver added

com.webmethods.portal.mech.schedule.impl.ScheduleMechanicsIS Class
com.webmethods.portal.mech.schedule.impl.ScheduleMechanicsIS added

com.webmethods.portal.mech.task.impl.TaskChangeHandlerIS Class
com.webmethods.portal.mech.task.impl.TaskChangeHandlerIS added

com.webmethods.portal.mech.task.impl.TaskContextHelper Class
com.webmethods.portal.mech.task.impl.TaskContextHelper added

com.webmethods.portal.mech.task.impl.TaskDataHelper Method 'public java.lang.Object[]
resolveTaskFields(com.webmethods.portal.service.task.ITask,
com.webmethods.portal.service.task.ITaskData, java.lang.String[])' has been added

com.webmethods.portal.mech.task.impl.TaskMechanics Method 'protected void
bindMechanicsManager(com.webmethods.portal.mech.IMechanicsManager)' has been added

com.webmethods.portal.mech.task.impl.TaskMechanicsIS Class
com.webmethods.portal.mech.task.impl.TaskMechanicsIS added

com.webmethods.portal.mech.task.impl.TaskRuleContext Method 'public
TaskRuleContext(com.webmethods.caf.rules.IRuleContext, java.util.Map)' has been added

com.webmethods.portal.mech.task.impl.TaskRuleContext Method 'public java.util.Map
getContextMap()' has been added

com.webmethods.portal.mech.task.impl.TaskRuleContext Method 'public void
setContextMap(java.util.Map)' has been added

com.webmethods.portal.service.access.IAclManager Method 'public void
setResourceType(java.lang.String)' has been added to an interface

com.webmethods.portal.service.access.IAclManager Method 'public void setUserID(java.lang.String)'
has been added to an interface

com.webmethods.portal.service.cache.ICacheManager Method 'public void
configureCache(java.lang.String, java.util.Map)' has been added to an interface

com.webmethods.portal.service.cache.impl.CacheManager Method 'protected java.util.Collection
getRegistryBasedComponentCollection()' has been added

com.webmethods.portal.service.cache.impl.CacheManager Method 'protected void
configureCacheFromRegisrty(java.lang.String)' has been added

com.webmethods.portal.service.cache.impl.CacheManager Method 'public void
configureCache(java.lang.String, java.util.Map)' has been added

com.webmethods.portal.service.dir.IDirCache Method 'public void clearQueryCache()' has been added
to an interface

com.webmethods.portal.service.dir.IDirServiceThing Class
com.webmethods.portal.service.dir.IDirServiceThing added

com.webmethods.portal.service.dir.IUserPrivacyService Class
com.webmethods.portal.service.dir.IUserPrivacyService added

com.webmethods.portal.service.dir.IUserPrivacyService$NotificationType Class
com.webmethods.portal.service.dir.IUserPrivacyService$NotificationType added

com.webmethods.portal.service.dir.impl.DirCache Method 'public void clearQueryCache()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'protected com.webmethods.portal.service.dir.IDirPrincipal getCurrentDirPrincipal()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'protected com.webmethods.portal.service.meta2.thing.IThingID getCurrentPrincipalThingID()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'protected long getCreatedTime()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'protected long getLastModifiedTime()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'protected void deletePrincipal()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'public boolean canDeleteUser()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'public boolean isEditingSelf(com.webmethods.portal.bizPolicy.IContext)' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'public boolean isMemberOfAdminRole()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'public boolean isSysAdminPrincipal()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'public boolean isUserPrivacyEnabled()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'public void DeleteUser()' has been added

com.webmethods.portal.service.portlet.impl.PortletProvider Method 'protected void bindThingIDService(com.webmethods.portal.service.meta2.IThingIDService)' has been added

com.webmethods.portal.service.portlet.impl.PortletProvider Method 'protected void bindXTypeService(com.webmethods.portal.service.meta2.IXTypeService)' has been added

com.webmethods.portal.service.scheduler.Scheduler Method 'protected void bindClusterLockingService(com.webmethods.portal.system.lock.IClusterLockingService)' has been added

com.webmethods.portal.service.scheduler.Scheduler Method 'protected void unbindClusterLockingService(com.webmethods.portal.system.lock.IClusterLockingService)' has been added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$FieldValueConverter Method 'public

com.webmethods.portal.service.meta2.thing.IThingID
getThingIDHelper(com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$FieldValueConverter Method 'public
com.webmethods.portal.system.IURI getURIHelper(java.lang.String)' has been added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$FieldValueConverter Method 'public
com.webmethods.portal.system.IURI lookupPrincipalHelper(java.lang.Object)' has been added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$FieldValueConverter Method 'public
com.webmethods.portal.system.IURI lookupPrincipalHelper(java.lang.Object, int)' has been added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$FieldValueConverter Method 'public
int getIntPriorityHelper(java.lang.String)' has been added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$FieldValueConverter Method 'public
int getIntStatusHelper(java.lang.String)' has been added

com.webmethods.portal.service.task.TaskSearchQuery Method 'public boolean matches(java.util.Map,
com.webmethods.caf.rules.IBindingExpressionEvaluator)' has been added

com.webmethods.portal.service.task.TaskSearchQueryTerm Method 'public boolean
matches(java.util.Map, com.webmethods.caf.rules.IBindingExpressionEvaluator)' has been added

com.webmethods.portal.service.task.TaskSearchQueryTerm Method 'public java.util.List
getFieldExpressionsString(java.util.Map, com.webmethods.caf.rules.IBindingExpressionEvaluator)' has
been added

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory Class
com.webmethods.portal.service.task.impl.TaskClassLoaderFactory added

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory$ITaskClassLoader Class
com.webmethods.portal.service.task.impl.TaskClassLoaderFactory$ITaskClassLoader added

com.webmethods.portal.service.task.impl.TaskDBIndexManagerHelper Class
com.webmethods.portal.service.task.impl.TaskDBIndexManagerHelper added

com.webmethods.portal.service.task.impl.TaskIndexTableViewHelper Class
com.webmethods.portal.service.task.impl.TaskIndexTableViewHelper added

com.webmethods.portal.service.task.impl.TaskService Method 'public void
flushTaskInfoCache(com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.service.task.impl.TaskServiceIS Class
com.webmethods.portal.service.task.impl.TaskServiceIS added

com.webmethods.portal.service.task.impl.TaskSystem Method 'protected
com.webmethods.portal.system.IComponentData
createComponentData(com.webmethods.portal.system.IInitializableComponentData)' has been added

com.webmethods.portal.service.task.impl.TaskSystem Method 'protected java.util.Collection
getThingBasedComponentCollection()' has been added

com.webmethods.portal.system.PortalSystem Method 'public java.lang.Boolean isLibraryMode()' has

been added

 com.webmethods.portal.webservices.SOAPMonitorConstants Class
com.webmethods.portal.webservices.SOAPMonitorConstants added

 com.webmethods.portal.webservices.SOAPMonitorData Method 'public
SOAPMonitorData(java.lang.Integer, java.lang.Long, java.lang.String, java.lang.String,
java.lang.String)' has been added

 com.webmethods.portal.webservices.SOAPMonitorData Method 'public java.lang.String
getContentType()' has been added

 com.webmethods.portal.webservices.SOAPMonitorData Method 'public java.lang.String
getMessageText()' has been added

 com.webmethods.portal.webservices.SOAPMonitorData Method 'public void
setContentType(java.lang.String)' has been added

 com.webmethods.portal.webservices.SOAPMonitorData Method 'public void
setMessageText(java.lang.String)' has been added

 com.webmethods.rtl.locator.impl.DBConfigLocator Method 'protected void
fireConfigChangedEvent(java.lang.String)' has been added

 com.webmethods.rtl.util.FileUtil Method 'public java.lang.String
getRealLocationAtIS(java.lang.String)' has been added

 com.webmethods.rtl.util.FileUtil Method 'public java.lang.String
getRealLocationAtISatTaskApp(java.lang.String, java.lang.String)' has been added

Removed API	Replacement, if any
com.webmethods.portal.bizPolicy.biz.impl.BizPolicy Method 'public java.lang.Class[] getExtraWsdlSchemaClasses(com.webmethods.portal.bizPolicy.IContext)' has been removed	
com.webmethods.portal.bizPolicy.biz.impl.BizPolicy Method 'public org.apache.axis.description.ServiceDesc initializeServiceDesc(com.webmethods.portal.bizPolicy.IContext, org.apache.axis.description.ServiceDesc)' has been removed	
com.webmethods.portal.bizPolicy.biz.impl.BizPolicy Method 'public org.apache.axis.handlers.soap.SOAPService initializeSOAPService(org.apache.axis.handlers.soap.SOAPService)' has been removed	
com.webmethods.portal.bizPolicy.biz.impl.BizPolicy Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed	
com.webmethods.portal.bizPolicy.command.access.GetAclView Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed	

com.webmethods.portal.bizPolicy.command.access.ListSecurityRealmObjects Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.alias.CreateAlias Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.dir.GetTypedAttributes Method 'public java.lang.Class[] getExtraWsdlSchemaClasses(com.webmethods.portal.bizPolicy.IContext)' has been removed

com.webmethods.portal.bizPolicy.command.dir.GetTypedAttributes Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.impl.Command Method 'protected java.beans.PropertyDescriptor[] getClassPropertyDescriptors(java.lang.Class)' has been removed

com.webmethods.portal.bizPolicy.command.impl.Command Method 'protected void registerWebServiceMarshallingFactories(java.lang.Class, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.impl.Command Method 'public java.lang.Class[] getExtraWsdlSchemaClasses(com.webmethods.portal.bizPolicy.IContext)' has been removed

com.webmethods.portal.bizPolicy.command.impl.Command Method 'public org.apache.axis.description.ServiceDesc initializeServiceDesc(com.webmethods.portal.bizPolicy.IContext, org.apache.axis.description.ServiceDesc)' has been removed

com.webmethods.portal.bizPolicy.command.impl.Command Method 'public org.apache.axis.handlers.soap.SOAPService initializeSOAPService(org.apache.axis.handlers.soap.SOAPService)' has been removed

com.webmethods.portal.bizPolicy.command.impl.Command Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.impl.WebServiceHelper Class com.webmethods.portal.bizPolicy.command.impl.WebServiceHelper removed

com.webmethods.portal.bizPolicy.command.meta.GetSelectedList Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.meta.ListChildrenFiltered Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.meta.ListContainers Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.meta.ListNotes Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.meta.schedule.ListSchedulesCommand Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.page.ModifyPage2 Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.socialkeyword.GetKeyword Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.socialkeyword.ListKeywords Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.sql.ListDataSources Method 'public java.lang.Class[] getExtraWsdlSchemaClasses(com.webmethods.portal.bizPolicy.IContext)' has been removed

com.webmethods.portal.bizPolicy.command.sql.ListDataSources Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.system.ImportFiles Class com.webmethods.portal.bizPolicy.command.system.ImportFiles removed

com.webmethods.portal.bizPolicy.command.system.ImportFilesBean Class com.webmethods.portal.bizPolicy.command.system.ImportFilesBean removed

com.webmethods.portal.bizPolicy.command.system.Ping Method 'public java.lang.Class[] getExtraWsdlSchemaClasses(com.webmethods.portal.bizPolicy.IContext)' has been removed

com.webmethods.portal.bizPolicy.command.system.Ping Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.system.RuntimeTimeStatus Method 'public java.lang.Class[] getExtraWsdlSchemaClasses(com.webmethods.portal.bizPolicy.IContext)' has been removed

com.webmethods.portal.bizPolicy.command.system.RuntimeTimeStatus Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.task.BaseTaskCommand Method 'protected java.beans.PropertyDescriptor[] getClassPropertyDescriptors(java.lang.Class)' has been removed

com.webmethods.portal.bizPolicy.command.task.GetTaskAudit Method 'public void

initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.task.GetTaskAuditPaginated Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.version.ListVersionsCommand Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.webspace.ListWebSpaces Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.impl.ContextProvider Method 'protected com.webmethods.portal.bizPolicy.IContext getContextBySessionId(java.lang.String)' has been removed

com.webmethods.portal.framework.dispatch.handlers.webservices.GetWSDL Class com.webmethods.portal.framework.dispatch.handlers.webservices.GetWSDL removed

com.webmethods.portal.framework.propertyeditor.command.ListPropertyEditors Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.webservices.IWebService Method 'public java.lang.Class[] getExtraWsdlSchemaClasses(com.webmethods.portal.bizPolicy.IContext)' has been removed

com.webmethods.portal.webservices.IWebService Method 'public org.apache.axis.description.ServiceDesc initializeServiceDesc(com.webmethods.portal.bizPolicy.IContext, org.apache.axis.description.ServiceDesc)' has been removed

com.webmethods.portal.webservices.IWebService Method 'public org.apache.axis.handlers.soap.SOAPService initializeSOAPService(org.apache.axis.handlers.soap.SOAPService)' has been removed

com.webmethods.portal.webservices.IWebService Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.webservices.SOAPMonitorData Method 'public java.lang.String getSoap()' has been removed

com.webmethods.portal.webservices.SOAPMonitorData Method 'public void setSoap(java.lang.String)' has been removed

com.webmethods.portal.webservices.configuration.MwsEngineConfigurationFactoryServlet Class com.webmethods.portal.webservices.configuration.MwsEngineConfigurationFactoryServlet removed

com.webmethods.portal.webservices.configuration.MwsFileProvider Class com.webmethods.portal.webservices.configuration.MwsFileProvider removed

com.webmethods.portal.webservices.configuration.UpgradeAxisConfiguration Class
com.webmethods.portal.webservices.configuration.UpgradeAxisConfiguration removed

com.webmethods.portal.webservices.encoding.AliasValueSerializer Class
com.webmethods.portal.webservices.encoding.AliasValueSerializer removed

com.webmethods.portal.webservices.encoding.AliasValueSerializerFactory Class
com.webmethods.portal.webservices.encoding.AliasValueSerializerFactory removed

com.webmethods.portal.webservices.encoding.BeanPropertiesTypeDesc Class
com.webmethods.portal.webservices.encoding.BeanPropertiesTypeDesc removed

com.webmethods.portal.webservices.encoding.CertificateSerializer Class
com.webmethods.portal.webservices.encoding.CertificateSerializer removed

com.webmethods.portal.webservices.encoding.CertificateSerializerFactory Class
com.webmethods.portal.webservices.encoding.CertificateSerializerFactory removed

com.webmethods.portal.webservices.encoding.CharacterSerializer Class
com.webmethods.portal.webservices.encoding.CharacterSerializer removed

com.webmethods.portal.webservices.encoding.CharacterSerializerFactory Class
com.webmethods.portal.webservices.encoding.CharacterSerializerFactory removed

com.webmethods.portal.webservices.encoding.ConnectionInfoSerializer Class
com.webmethods.portal.webservices.encoding.ConnectionInfoSerializer removed

com.webmethods.portal.webservices.encoding.ConnectionInfoSerializerFactory Class
com.webmethods.portal.webservices.encoding.ConnectionInfoSerializerFactory removed

com.webmethods.portal.webservices.encoding.DifferenceMapSerializer Class
com.webmethods.portal.webservices.encoding.DifferenceMapSerializer removed

com.webmethods.portal.webservices.encoding.DifferenceMapSerializerFactory Class
com.webmethods.portal.webservices.encoding.DifferenceMapSerializerFactory removed

com.webmethods.portal.webservices.encoding.DirServiceSerializer Class
com.webmethods.portal.webservices.encoding.DirServiceSerializer removed

com.webmethods.portal.webservices.encoding.DirServiceSerializerFactory Class
com.webmethods.portal.webservices.encoding.DirServiceSerializerFactory removed

com.webmethods.portal.webservices.encoding.IDataDeserializer Class
com.webmethods.portal.webservices.encoding.IDataDeserializer removed

com.webmethods.portal.webservices.encoding.IDataDeserializerFactory Class
com.webmethods.portal.webservices.encoding.IDataDeserializerFactory removed

com.webmethods.portal.webservices.encoding.IOutOnly Class
com.webmethods.portal.webservices.encoding.IOutOnly removed

com.webmethods.portal.webservices.encoding.ISoapComplexTypeBean Class
com.webmethods.portal.webservices.encoding.ISoapComplexTypeBean removed

com.webmethods.portal.webservices.encoding.InterfaceAsBeanSerializer Class
com.webmethods.portal.webservices.encoding.InterfaceAsBeanSerializer removed

com.webmethods.portal.webservices.encoding.InterfaceAsBeanSerializerFactory Class
com.webmethods.portal.webservices.encoding.InterfaceAsBeanSerializerFactory removed

com.webmethods.portal.webservices.encoding.ListViewSerializer Class
com.webmethods.portal.webservices.encoding.ListViewSerializer removed

com.webmethods.portal.webservices.encoding.ListViewSerializerFactory Class
com.webmethods.portal.webservices.encoding.ListViewSerializerFactory removed

com.webmethods.portal.webservices.encoding.LocaleDeserializer Class
com.webmethods.portal.webservices.encoding.LocaleDeserializer removed

com.webmethods.portal.webservices.encoding.LocaleDeserializerFactory Class
com.webmethods.portal.webservices.encoding.LocaleDeserializerFactory removed

com.webmethods.portal.webservices.encoding.LocaleSerializer Class
com.webmethods.portal.webservices.encoding.LocaleSerializer removed

com.webmethods.portal.webservices.encoding.LocaleSerializerFactory Class
com.webmethods.portal.webservices.encoding.LocaleSerializerFactory removed

com.webmethods.portal.webservices.encoding.PageDataDeserializer Class
com.webmethods.portal.webservices.encoding.PageDataDeserializer removed

com.webmethods.portal.webservices.encoding.PageDataDeserializerFactory Class
com.webmethods.portal.webservices.encoding.PageDataDeserializerFactory removed

com.webmethods.portal.webservices.encoding.PageDataSerializer Class
com.webmethods.portal.webservices.encoding.PageDataSerializer removed

com.webmethods.portal.webservices.encoding.PageDataSerializerFactory Class
com.webmethods.portal.webservices.encoding.PageDataSerializerFactory removed

com.webmethods.portal.webservices.encoding.PagingBeanDeserializer Class
com.webmethods.portal.webservices.encoding.PagingBeanDeserializer removed

com.webmethods.portal.webservices.encoding.PagingBeanDeserializerFactory Class
com.webmethods.portal.webservices.encoding.PagingBeanDeserializerFactory removed

com.webmethods.portal.webservices.encoding.PagingBeanSerializer Class
com.webmethods.portal.webservices.encoding.PagingBeanSerializer removed

com.webmethods.portal.webservices.encoding.PagingBeanSerializerFactory Class
com.webmethods.portal.webservices.encoding.PagingBeanSerializerFactory removed

com.webmethods.portal.webservices.encoding.PortalFileBeanDeserializer Class
com.webmethods.portal.webservices.encoding.PortalFileBeanDeserializer removed

com.webmethods.portal.webservices.encoding.PortalFileBeanDeserializerFactory Class
com.webmethods.portal.webservices.encoding.PortalFileBeanDeserializerFactory removed

com.webmethods.portal.webservices.encoding.PortalFileBeanSerializer Class
com.webmethods.portal.webservices.encoding.PortalFileBeanSerializer removed

com.webmethods.portal.webservices.encoding.PortalFileBeanSerializerFactory Class
com.webmethods.portal.webservices.encoding.PortalFileBeanSerializerFactory removed

com.webmethods.portal.webservices.encoding.RightSetDeserializer Class
com.webmethods.portal.webservices.encoding.RightSetDeserializer removed

com.webmethods.portal.webservices.encoding.RightSetDeserializerFactory Class
com.webmethods.portal.webservices.encoding.RightSetDeserializerFactory removed

com.webmethods.portal.webservices.encoding.RightSetSerializer Class
com.webmethods.portal.webservices.encoding.RightSetSerializer removed

com.webmethods.portal.webservices.encoding.RightSetSerializerFactory Class
com.webmethods.portal.webservices.encoding.RightSetSerializerFactory removed

com.webmethods.portal.webservices.encoding.SelectedListViewSerializer Class
com.webmethods.portal.webservices.encoding.SelectedListViewSerializer removed

com.webmethods.portal.webservices.encoding.SelectedListViewSerializerFactory Class
com.webmethods.portal.webservices.encoding.SelectedListViewSerializerFactory removed

com.webmethods.portal.webservices.encoding.ThingIDListSerializer Class
com.webmethods.portal.webservices.encoding.ThingIDListSerializer removed

com.webmethods.portal.webservices.encoding.ThingIDListSerializerFactory Class
com.webmethods.portal.webservices.encoding.ThingIDListSerializerFactory removed

com.webmethods.portal.webservices.encoding.ThingNameAtomSerializer Class
com.webmethods.portal.webservices.encoding.ThingNameAtomSerializer removed

com.webmethods.portal.webservices.encoding.ThingNameAtomSerializerFactory Class
com.webmethods.portal.webservices.encoding.ThingNameAtomSerializerFactory removed

com.webmethods.portal.webservices.encoding.URIDeserializer Class
com.webmethods.portal.webservices.encoding.URIDeserializer removed

com.webmethods.portal.webservices.encoding.URIDeserializerFactory Class
com.webmethods.portal.webservices.encoding.URIDeserializerFactory removed

com.webmethods.portal.webservices.encoding.URISerializer Class
com.webmethods.portal.webservices.encoding.URISerializer removed

com.webmethods.portal.webservices.encoding.URISerializerFactory Class
com.webmethods.portal.webservices.encoding.URISerializerFactory removed

com.webmethods.portal.webservices.encoding.ViewProperty Class
com.webmethods.portal.webservices.encoding.ViewProperty removed

com.webmethods.portal.webservices.encoding.ViewSerializer Class
com.webmethods.portal.webservices.encoding.ViewSerializer removed

com.webmethods.portal.webservices.encoding.ViewSerializerFactory Class
com.webmethods.portal.webservices.encoding.ViewSerializerFactory removed

 com.webmethods.portal.webservices.handlers.CommandHandler Class
com.webmethods.portal.webservices.handlers.CommandHandler removed

 com.webmethods.portal.webservices.handlers.CommandProvider Class
com.webmethods.portal.webservices.handlers.CommandProvider removed

 com.webmethods.portal.webservices.handlers.SOAPMonitorHandler Class
com.webmethods.portal.webservices.handlers.SOAPMonitorHandler removed

 com.webmethods.portal.webservices.servlet.PortalAxisServlet Class
com.webmethods.portal.webservices.servlet.PortalAxisServlet removed

Changed API	Description

com.webmethods.portal.bizPolicy.command.dir.DeletePrincipal In method 'protected void
fireEvents(com.webmethods.portal.bizPolicy.IContext,
com.webmethods.portal.mech.dir.IDirServiceMechanics, com.webmethods.portal.system.IURI,
com.webmethods.portal.service.meta2.thing.IThingID,
com.webmethods.portal.service.meta2.thing.IThingID,
com.webmethods.portal.service.dir.IDirPrincipalList,
com.webmethods.portal.service.dir.IDirPrincipalList)' the number of arguments has changed

 com.webmethods.portal.bizPolicy.command.dir.ModifyPrincipal In method 'protected void
fireEvents(com.webmethods.portal.bizPolicy.IContext,
com.webmethods.portal.mech.dir.IPrincipalAttributeMechanics, com.webmethods.portal.system.IURI,
java.lang.String, java.lang.Object, com.webmethods.portal.service.meta2.thing.IThingID)' the number
of arguments has changed

 com.webmethods.portal.bizPolicy.command.dir.ModifyPrincipalEx In method 'protected void
fireEvents(com.webmethods.portal.bizPolicy.IContext,
com.webmethods.portal.mech.dir.IPrincipalAttributeMechanics, com.webmethods.portal.system.IURI,
java.util.Map, com.webmethods.portal.service.meta2.thing.IThingID)' the number of arguments has
changed

 com.webmethods.portal.bizPolicy.command.impl.rs.CommandResource In method 'public
javax.ws.rs.core.Response invokeCommandFromForm(javax.servlet.http.HttpServletRequest,
javax.servlet.http.HttpServletResponse, java.lang.String)' the number of arguments has changed

Release 10.1

Added API	Description

com.webmethods.portal.bizPolicy.biz.dir.IDirSystemBizPolicy: Method 'public
com.webmethods.portal.service.dir.IDirUser
authenticateUser(com.webmethods.portal.bizPolicy.IContext, java.lang.String, java.lang.String,
boolean)' has been added to an interface

com.webmethods.portal.framework.IAuthManager: Method 'public
com.webmethods.portal.framework.auth.IAuthInfo createAuthInfo()' has been added to an interface

com.webmethods.portal.service.task.ITaskDistributionService: Method 'public
com.webmethods.portal.service.task.ITaskListIterator
searchAllTasks(com.webmethods.portal.service.task.TaskSearchQuery, java.lang.Boolean)' has been
added to an interface

com.webmethods.portal.service.task.ITaskLockingService: Method 'public
com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI,
com.webmethods.portal.system.IURI, long, long)' has been added to an interface

com.webmethods.portal.service.task.ITaskLockingService: Method 'public
com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI,
com.webmethods.portal.system.IURI, long, long, boolean)' has been added to an interface

com.webmethods.portal.service.task.ITaskLockingService: Method 'public
com.webmethods.portal.system.lock.IClusterLock getLock(com.webmethods.portal.system.IURI)' has
been added to an interface

com.webmethods.portal.system.IURIResolver: Method 'public com.webmethods.portal.system.IURI
acquireURI(java.lang.String, boolean)' has been added to an interface

com.webmethods.portal.system.init.IPhaseProvider: Method 'public void preInit(java.lang.String)' has
been added to an interface

com.webmethods.portal.webservices.IWebService: Method 'public java.lang.Class[]
getExtraWsdlSchemaClasses(com.webmethods.portal.bizPolicy.IContext)' has been added to an
interface

Removed API	Replacement, if any

com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended: Removed com.webmethods.caf.faces.data.task.ITaskConstants from the set of implemented interfaces

com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended: Removed com.webmethods.caf.faces.data.task.ITaskSearchQuery from the set of implemented interfaces

com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended: Removed com.webmethods.caf.faces.data.task.ITaskSearchQueryBase from the set of implemented interfaces

com.webmethods.caf.faces.data.task.impl.QueryAggregationInfo: Removed com.webmethods.caf.faces.data.task.IQueryAggregationInfo from the set of implemented interfaces

com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider$HpstraInboxSearchQuery: Removed com.webmethods.caf.faces.data.task.ITaskConstants from the set of implemented interfaces

com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider$HpstraInboxSearchQuery: Removed com.webmethods.caf.faces.data.task.ITaskSearchQuery from the set of implemented interfaces

com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider$HpstraInboxSearchQuery: Removed com.webmethods.caf.faces.data.task.ITaskSearchQueryBase from the set of implemented interfaces

com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider$HpstraInboxSearchQuery: Removed com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended from the set of implemented interfaces

com.webmethods.caf.faces.data.task.impl.TaskInboxIndexedSearchContentProvider$InboxSearchQuery: Removed com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended from the set of implemented interfaces

com.webmethods.caf.faces.data.task.impl.TaskInboxSearchContentProvider$InboxSearchQuery: Removed com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended from the set of implemented interfaces

com.webmethods.caf.faces.data.task.impl.TaskIndexedSearchContentProvider$TaskData: Removed com.webmethods.caf.faces.data.task.ITaskData from the set of implemented interfaces

com.webmethods.caf.faces.data.task.impl.TaskSearchQuery: Removed com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended from the set of implemented interfaces

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryExtended: Removed com.webmethods.caf.faces.data.task.ITaskConstants from the set of implemented interfaces

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryExtended: Removed
com.webmethods.caf.faces.data.task.ITaskSearchQuery from the set of implemented interfaces

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryExtended: Removed
com.webmethods.caf.faces.data.task.ITaskSearchQueryBase from the set of implemented interfaces

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryExtended: Removed
com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended from the set of implemented
interfaces

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryV2: Removed
com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended from the set of implemented
interfaces

com.webmethods.portal.mech.task.impl.TaskQuery: Removed
com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended from the set of implemented
interfaces

com.webmethods.portal.service.sql.core.JNDIDataSourceFactory: Removed
com.webmethods.portal.system.init.IInitializable from the set of implemented interfaces

com.webmethods.portal.socialbpm.charts.SocialBPMSearchQuery: Removed
com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended from the set of implemented
interfaces

com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider$HpstraInboxSearch
Query: Removed com.webmethods.caf.faces.data.task.impl.TaskSearchQuery from the list of
superclasses

com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider$HpstraInboxSearch
Query: Removed com.webmethods.caf.faces.data.task.impl.TaskSearchQueryV2 from the list of
superclasses

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryExtended: Removed
com.webmethods.caf.faces.data.task.impl.TaskSearchQuery from the list of superclasses

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryExtended: Removed
com.webmethods.caf.faces.data.task.impl.TaskSearchQueryV2 from the list of superclasses

com.webmethods.caf.mobile.notify.impl.PushNotification: Removed
com.webmethods.portal.system.impl.BaseComponent from the list of superclasses

com.webmethods.caf.mobile.notify.impl.PushNotification$PushNotificationCommandBean: Removed
com.webmethods.rtl.util.obj.MapPropertyBag from the list of superclasses

com.webmethods.portal.bizPolicy.command.system.RuntimeStatusBean: Removed
com.webmethods.rtl.util.obj.MapPropertyBag from the list of superclasses

com.webmethods.portal.bizPolicy.command.system.RuntimeTimeStatus: Removed com.webmethods.portal.system.impl.BaseComponent from the list of superclasses

com.webmethods.rtl.locator.ClassLocator: Removed com.webmethods.rtl.locator.FileLocator from the list of superclasses

com.webmethods.rtl.util.SystemPaths$UserPathLocator: Removed com.webmethods.rtl.locator.FileLocator from the list of superclasses

com.webmethods.caf.mobile.notify.task.APNSCleanUpThread: Removed field expiredID

com.webmethods.portal.service.portlet.impl.PortletProvider: Removed field portletProviderFactoryServiceReg

com.webmethods.portal.service.task.impl.TaskLockingService: Removed field TASK_LOCK_MAX_TIME

com.webmethods.portal.service.task.impl.TaskLockingService: Removed field TASK_LOCK_MAX_WAIT_TIME

com.webmethods.portal.service.task.impl.TaskLockingService: Removed field dbOffsetLastCalced

com.webmethods.portal.service.task.impl.TaskLockingService: Removed field dbTimeOffsetMs

com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended: Method 'public com.webmethods.caf.faces.data.task.impl.TaskSearchQueryTerm findTerm(java.lang.String, java.lang.String)' has been removed

com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended: Method 'public com.webmethods.caf.faces.data.task.impl.TaskSearchQueryTerm findTerm(java.lang.String)' has been removed

com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended: Method 'public com.webmethods.caf.faces.data.task.IQueryAggregationInfo getQueryAggregationInfo()' has been removed

com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended: Method 'public com.webmethods.caf.faces.data.task.impl.TaskSearchQueryTerm[] getTerms()' has been removed

com.webmethods.caf.mobile.notify.impl.MobileNotificationProvider: Method 'protected java.util.Collection loadConfig(com.webmethods.portal.system.IComponentData)' has been removed

com.webmethods.caf.script.servlet.ScriptServlet: Method 'protected void includeBCScript(java.lang.String, java.util.Locale, java.io.Writer, boolean)' has been removed

com.webmethods.caf.script.servlet.ScriptServlet: Method 'protected void stripBCScript(java.io.Reader, java.io.Writer)' has been removed

com.webmethods.caf.script.util.JavascriptStripper: Method 'protected boolean is_sep_for_bc(int)' has been removed

com.webmethods.caf.script.util.JavascriptStripper: Method 'protected boolean is_unambiguous_sep_for_bc(int)' has been removed

com.webmethods.caf.script.util.JavascriptStripper: Method 'public void stripBCScript(java.io.Reader, java.io.Writer)' has been removed

com.webmethods.caf.script.util.JavascriptStripper: Method 'protected int strip_c_comment_for_bc(java.io.Reader, java.io.Writer)' has been removed

com.webmethods.portal.framework.auth.AuthInfo: Method 'public void copy(com.webmethods.portal.framework.auth.AuthInfo)' has been removed

com.webmethods.portal.framework.presentation.PresentationData: Method 'public com.webmethods.portal.framework.presentation.PresentationData init(java.lang.Object, int, java.util.HashMap)' has been removed

com.webmethods.portal.service.sql.core.JNDIDataSourceFactory: Method 'public void init(com.webmethods.portal.system.IComponentData, java.lang.String)' has been removed

com.webmethods.portal.service.sql.core.JNDIDataSourceFactory: Method 'public void shutdown()' has been removed

com.webmethods.pushNotification.apns.connection.pool.APNSConnectionPool: Method 'public void initialize(com.webmethods.pushNotification.apns.connection.pool.APNSConnectionPoolManager, java.util.Map)' has been removed

com.webmethods.rtl.util.RuntimeUtil: Method 'public javax.servlet.ServletContext getServletContext(java.lang.String)' has been removed

com.webmethods.rtl.util.RuntimeUtil: Method 'public org.eclipse.jetty.webapp.WebAppContext getWebAppContext(java.lang.String)' has been removed

com.webmethods.rtl.util.RuntimeUtil: Method 'public void refreshBundle(org.osgi.framework.Bundle)' has been removed

com.webmethods.rtl.util.RuntimeUtil: Method 'public void refreshRemovalPendingBundles()' has been removed

com.webmethods.rtl.util.RuntimeUtil: Method 'public void startBundle(org.osgi.framework.Bundle)' has been removed

com.webmethods.caf.faces.data.task.AggregationType: Class com.webmethods.caf.faces.data.task.AggregationType removed

com.webmethods.caf.faces.data.task.IQueryAggregationInfo: Class
com.webmethods.caf.faces.data.task.IQueryAggregationInfo removed

com.webmethods.caf.faces.data.task.IndexEngineType: Class
com.webmethods.caf.faces.data.task.IndexEngineType removed

com.webmethods.portal.bizPolicy.command.task.rs.MWSCustomDispatchProvider: Class
com.webmethods.portal.bizPolicy.command.task.rs.MWSCustomDispatchProvider removed

com.webmethods.portal.bizPolicy.command.task.rs.MWSRequestDispatcher: Class
com.webmethods.portal.bizPolicy.command.task.rs.MWSRequestDispatcher removed

com.webmethods.portal.bizPolicy.command.task.rs.RestApplication: Class
com.webmethods.portal.bizPolicy.command.task.rs.RestApplication removed

com.webmethods.portal.bizPolicy.command.task.rs.RestApplication$RestPingInfo: Class
com.webmethods.portal.bizPolicy.command.task.rs.RestApplication$RestPingInfo removed

com.webmethods.portal.bizPolicy.command.task.rs.RestApplication$RestResource: Class
com.webmethods.portal.bizPolicy.command.task.rs.RestApplication$RestResource removed

com.webmethods.portal.framework.presentation.handlers.dcjsp.FlexiblePoolBoy: Class
com.webmethods.portal.framework.presentation.handlers.dcjsp.FlexiblePoolBoy removed

com.webmethods.rtl.locator.BundleLocator: Class com.webmethods.rtl.locator.BundleLocator removed

com.webmethods.rtl.locator.ClusterConfigLocator: Class
com.webmethods.rtl.locator.ClusterConfigLocator removed

com.webmethods.rtl.locator.ConfigLocator: Class com.webmethods.rtl.locator.ConfigLocator removed

com.webmethods.rtl.locator.FileLocator: Class com.webmethods.rtl.locator.FileLocator removed

com.webmethods.rtl.locator.NullLocator: Class com.webmethods.rtl.locator.NullLocator removed

com.webmethods.rtl.locator.StreamLocatorFactory: Class
com.webmethods.rtl.locator.StreamLocatorFactory removed

com.webmethods.rtl.locator.WebResourceLocator: Class
com.webmethods.rtl.locator.WebResourceLocator removed

Release 10.0

Added API	Description

com.webmethods.caf.faces.data.task.impl.TaskInboxIndexedSearchContentProvider$InboxSearchQuery: Added com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended to the set of implemented interfaces

com.webmethods.caf.faces.data.task.impl.TaskInboxSearchContentProvider$InboxSearchQuery: Added com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended to the set of implemented interfaces

com.webmethods.caf.faces.data.task.impl.TaskSearchQuery: Added com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended to the set of implemented interfaces

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryV2: Added com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended to the set of implemented interfaces

com.webmethods.caf.mobile.notify.impl.MobileNotificationProvider: Added com.webmethods.portal.event.modify.IUpdateEvent$ISynchronousListener to the set of implemented interfaces

com.webmethods.caf.mobile.notify.task.NotificationSender: Added java.util.concurrent.Callable to the set of implemented interfaces

com.webmethods.portal.mech.task.impl.TaskQuery: Added com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll: Added com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchAllByTagCount: Added com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchAllByTagPaged: Added com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchAllCount: Added com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchAllGroupedCount: Added com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchAllPaged: Added com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxes: Added com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesByTagCount: Added com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesByTagPaged: Added com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesCount: Added
com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesGroupedCount: Added
com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesPaged: Added
com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.socialbpm.charts.SocialBPMSearchQuery: Added
com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended to the set of implemented interfaces

com.webmethods.caf.faces.render.html.table.MoveRowDownIconRenderer: Added
com.webmethods.caf.faces.render.html.table.MoveRowLinkRenderer to the list of superclasses

com.webmethods.caf.faces.render.html.table.MoveRowDownLinkRenderer: Added
com.webmethods.caf.faces.render.html.table.MoveRowLinkRenderer to the list of superclasses

com.webmethods.caf.faces.render.html.table.MoveRowUpIconRenderer: Added
com.webmethods.caf.faces.render.html.table.MoveRowLinkRenderer to the list of superclasses

com.webmethods.caf.faces.render.html.table.MoveRowUpLinkRenderer: Added
com.webmethods.caf.faces.render.html.table.MoveRowLinkRenderer to the list of superclasses

com.webmethods.portal.bizPolicy.biz.task.impl.TaskDBOHelper: Added
com.webmethods.portal.bizPolicy.biz.task.impl.TaskIndexHelper to the list of superclasses

com.webmethods.caf.common.deployer.MwsDeployerConstants: Added public field
PROJ_PROP_EXPORT_PAGE_DEPTH

com.webmethods.caf.mobile.notify.IMobileNotificationConstants: Added public field IOS_CERT

com.webmethods.caf.mobile.notify.IMobileNotificationConstants: Added public field
IOS_HOST_NAME

com.webmethods.caf.mobile.notify.IMobileNotificationConstants: Added public field
IOS_HOST_PORT

com.webmethods.caf.mobile.notify.IMobileNotificationConstants: Added public field
IOS_PASSWORD

com.webmethods.caf.mobile.notify.IMobileNotificationConstants: Added public field
NOTIFIER_QUEUE_SIZE_THRESHOLD

com.webmethods.caf.mobile.notify.impl.MobileNotifierComponent: Added protected field
m_connPoolProvider

com.webmethods.caf.mobile.notify.util.MobileNotifierUtil: Added public field
IOS_JASON_PAYLOAD_TEMPLATE

com.webmethods.portal.bizPolicy.biz.task.ITaskDefinitionConstants: Added public field
PROPERTY_HPSTRA_INDEXTABLEDIS

com.webmethods.portal.bizPolicy.biz.task.ITaskDefinitionConstants: Added public field

PROPERTY_HPSTRA_INDEX_JOB_STATUS

com.webmethods.portal.bizPolicy.biz.task.ITaskDefinitionConstants: Added public field PROPERTY_ISHPSTRAENABLED

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Added public field DEFAULT_JSON_DATE_FORMAT

com.webmethods.portal.service.bcgadget.IBCGadgetConstants: Added public field BC_GADGET_DEF_CONTAINER_NOT_FOUND_ERROR_MSG

com.webmethods.portal.service.dir.impl.DirServicePortletBean: Added public field ATTR_PREFIX_LENGTH

com.webmethods.portal.service.dir.impl.DirServicePortletBean: Added public field EDIT_ATTR_CURRPASSWORD

com.webmethods.portal.service.dir.impl.DirServicePortletBean: Added public field USERNAME

com.webmethods.portal.service.dir.impl.DirServicePortletBean: Added public field exceptionMessage

com.webmethods.portal.service.sql.runtime.base.TaskLockSetNew: Added public field TE_MAX_LAST_ACTIVE

com.webmethods.portal.service.task.impl.TaskDefinitionView: Added protected field m_taskDetailGadgetURIs

com.webmethods.caf.common.ObjectUtil: Method 'public void sortObjectList(java.util.List, java.lang.String, boolean)' has been added

com.webmethods.caf.faces.component.behavior.DragToMoveRowsBehavior: Method 'public boolean isPropagateEvents()' has been added

com.webmethods.caf.faces.component.behavior.DragToMoveRowsBehavior: Method 'public void setPropagateEvents(boolean)' has been added

com.webmethods.caf.faces.component.tree.AsyncTree: Method 'protected com.webmethods.caf.faces.data.ITableContentProvider getContentProvider(boolean)' has been added

com.webmethods.caf.faces.data.task.impl.TaskSearchQuery: Method 'public java.lang.String getSearchEngineType()' has been added

com.webmethods.caf.faces.data.task.impl.TaskSearchQuery: Method 'public void setSearchEngineType(java.lang.String)' has been added

com.webmethods.caf.mobile.notify.impl.MobileNotificationProvider: Method 'public void onSynchronousEvent(com.webmethods.portal.event.modify.IUpdateEvent)' has been added

com.webmethods.caf.mobile.notify.impl.MobileNotifierComponent: Method 'public com.webmethods.caf.mobile.notify.impl.AppleMessagingCloudConnectionDetails getM_iOSConnectionDetails()' has been added

com.webmethods.caf.mobile.notify.impl.MobileNotifierComponent: Method 'public java.util.concurrent.BlockingQueue getMessageQueue()' has been added

com.webmethods.caf.mobile.notify.impl.MobileNotifierComponent: Method 'public java.util.List scheduleCleanUpService(java.util.List)' has been added

com.webmethods.caf.mobile.notify.impl.MobileNotifierComponent: Method 'public void setMessageQueue(java.util.concurrent.BlockingQueue)' has been added

com.webmethods.caf.mobile.notify.impl.MobileNotifierComponent: Method 'public void stopExecutorService()' has been added

com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Method 'public java.lang.String createMessage(com.webmethods.portal.service.task.event.ITaskChangedEvent)' has been added

com.webmethods.caf.mobile.notify.task.Message: Method 'public java.util.List getAndroidSubscriptionList()' has been added

com.webmethods.caf.mobile.notify.task.Message: Method 'public java.util.List getiOSSubscriptionList()' has been added

com.webmethods.caf.mobile.notify.task.Message: Method 'public void setAndroidSubscriptionList(java.util.List)' has been added

com.webmethods.caf.mobile.notify.task.Message: Method 'public void setIOSSubscriptionList(java.util.List)' has been added

com.webmethods.caf.mobile.notify.task.NotificationSender: Method 'public java.util.List call()' has been added

com.webmethods.caf.mobile.notify.task.NotificationSender: Method 'public java.lang.Object call()' has been added

com.webmethods.caf.mobile.notify.task.NotificationSender: Method 'public byte[] convertPayloadtoUTF8Bytes(java.lang.String)' has been added

com.webmethods.caf.mobile.notify.task.NotificationSender: Method 'public byte[] decodeHex(java.lang.String)' has been added

com.webmethods.caf.mobile.notify.task.NotificationSender: Method 'public byte[] formAPNSMessage(byte, byte[], byte[])' has been added

com.webmethods.caf.mobile.notify.util.MobileNotifierUtil: Method 'public java.lang.String generateIOSPayload(java.util.List, java.lang.String, java.lang.String)' has been added

com.webmethods.caf.script.servlet.ScriptServlet: Method 'protected void includeBCScript(java.lang.String, java.util.Locale, java.io.Writer, boolean)' has been added

com.webmethods.caf.script.servlet.ScriptServlet: Method 'protected void stripBCScript(java.io.Reader, java.io.Writer)' has been added

com.webmethods.caf.script.util.JavascriptStripper: Method 'protected boolean is_sep_for_bc(int)' has been added

com.webmethods.caf.script.util.JavascriptStripper: Method 'protected boolean is_unambiguous_sep_for_bc(int)' has been added

com.webmethods.caf.script.util.JavascriptStripper: Method 'public void stripBCScript(java.io.Reader, java.io.Writer)' has been added

com.webmethods.caf.script.util.JavascriptStripper: Method 'protected int strip_c_comment_for_bc(java.io.Reader, java.io.Writer)' has been added

com.webmethods.portal.bizPolicy.biz.task.impl.TaskDBOHelper: Method 'public com.webmethods.portal.service.meta2.dbo.HpstraIndexTable createHpstraIndexTableFromXml(java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.task.rs.TaskResource: Method 'public void convertJSONToJavaObj(java.util.Map, java.lang.Class)' has been added

com.webmethods.portal.framework.presentation.handlers.Nbsp: Method 'public java.lang.Object lookup(java.util.Map, java.lang.String, boolean)' has been added

com.webmethods.portal.service.dir.impl.DirPrincipalListView: Method 'public java.util.Map getExceptions()' has been added

com.webmethods.portal.service.dir.impl.DirPrincipalListView: Method 'public void setExceptions(java.util.Map)' has been added

com.webmethods.portal.service.dir.impl.DirPrincipalProvider: Method 'protected void populateGroupMembership(com.webmethods.portal.service.dir.IDirPrincipal, java.util.Set, java.util.Map)' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean: Method 'protected void EditPrincipalEx()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean: Method 'public void EditUserEx()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean: Method 'public boolean isAuthenticated(java.lang.String, java.lang.String)' has been added

com.webmethods.portal.service.sql.runtime.base.TaskLockSetNew: Method 'protected java.lang.String getConditionalInsertStatement()' has been added

com.webmethods.portal.service.task.impl.TaskDefinitionView: Method 'public com.webmethods.portal.service.meta2.dbo.HpstraIndexTable getHpstraIndexTable()' has been added

com.webmethods.portal.service.task.impl.TaskDefinitionView: Method 'public java.lang.String getTaskDetailGadgetURIs()' has been added

com.webmethods.portal.service.task.impl.TaskDefinitionView: Method 'public boolean isHpstraEnabled()' has been added

com.webmethods.portal.system.cluster.impl.ClusterProvider: Method 'public void reloadClusterServers()' has been added

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Method 'protected void addContextLocale(org.eclipse.jetty.server.session.AbstractSession)' has been added

com.webmethods.rtl.event.DeliveryService: Method 'public boolean isConfigLoaded()' has been added

com.webmethods.rtl.msg.jms.JMSDestination$LiveStatistics$NameComparator: Method 'public int compare(com.webmethods.rtl.msg.jms.JMSDestination$LiveStatistics, com.webmethods.rtl.msg.jms.JMSDestination$LiveStatistics)' has been added

com.webmethods.rtl.msg.jms.JMSProvider: Method 'protected boolean isMaintenanceMode()' has been added

com.webmethods.rtl.script.nbsp.NBSPage: Method 'public java.lang.Object get(java.lang.String, boolean)' has been added

com.webmethods.rtl.script.nbsp.NBSPage: Method 'public java.lang.String getString(java.lang.String, java.lang.String, boolean)' has been added

com.webmethods.rtl.script.nbsp.PooledNBSPage: Method 'public java.lang.Object get(java.lang.String, boolean)' has been added

com.webmethods.rtl.script.nbsp.PooledNBSPage: Method 'public java.lang.Object get(java.lang.String, java.lang.Class, java.lang.Object, boolean)' has been added

com.webmethods.rtl.script.nbsp.PooledNBSPage: Method 'public java.lang.String getString(java.lang.String, java.lang.String, boolean)' has been added

com.webmethods.caf.mobile.notify.IMobileNotifierComponent: Method 'public com.webmethods.caf.mobile.notify.impl.AppleMessagingCloudConnectionDetails getM_iOSConnectionDetails()' has been added to an interface

com.webmethods.caf.mobile.notify.IMobileNotifierComponent: Method 'public java.util.concurrent.BlockingQueue getMessageQueue()' has been added to an interface

com.webmethods.caf.mobile.notify.IMobileNotifierComponent: Method 'public java.util.List scheduleCleanUpService(java.util.List)' has been added to an interface

com.webmethods.caf.mobile.notify.IMobileNotifierComponent: Method 'public void setMessageQueue(java.util.concurrent.BlockingQueue)' has been added to an interface

com.webmethods.caf.mobile.notify.IMobileNotifierComponent: Method 'public void stopExecutorService()' has been added to an interface

com.webmethods.common.search.ISliceableSearchContext: Method 'public java.util.Map getExceptions()' has been added to an interface

com.webmethods.portal.mech.task.ITaskMechanics: Method 'public void fireTaskReindexStopEvent(com.webmethods.portal.service.task.ITaskDefinition, java.lang.String)' has been added to an interface

com.webmethods.portal.service.dir.IDirPrincipalList: Method 'public java.util.Map getExceptions()' has been added to an interface

com.webmethods.portal.service.task.ITaskDefinition: Method 'public com.webmethods.portal.service.meta2.dbo.HpstraIndexTable getHpstraIndexTable()' has been added to an interface

com.webmethods.portal.service.task.ITaskDefinition: Method 'public java.lang.String

getTaskDetailGadgetURIs()' has been added to an interface

com.webmethods.portal.service.task.ITaskDefinition: Method 'public boolean isHpstraEnabled()' has been added to an interface

com.webmethods.portal.service.task.ITaskDistributionService: Method 'public java.util.List getPrincipalActors(com.webmethods.portal.system.IURI[], boolean)' has been added to an interface

com.webmethods.portal.service.task.event.ITaskReindexStopEvent: Method 'public java.lang.String getIndexEngineType()' has been added to an interface

com.webmethods.portal.system.cluster.IClusterProvider: Method 'public void reloadClusterServers()' has been added to an interface

com.webmethods.rtl.script.nbsp.INBSPRuntime: Method 'public java.lang.Object lookup(java.util.Map, java.lang.String, boolean)' has been added to an interface

com.webmethods.rtl.script.nbsp.INBSPage: Method 'public java.lang.Object get(java.lang.String, boolean)' has been added to an interface

com.webmethods.rtl.script.nbsp.INBSPage: Method 'public java.lang.String getString(java.lang.String, java.lang.String, boolean)' has been added to an interface

com.softwareag.mws.screens.BaseScreenClass: Class com.softwareag.mws.screens.BaseScreenClass added

com.softwareag.mws.screens.Constants: Class com.softwareag.mws.screens.Constants added

com.softwareag.mws.screens.MWSLoginLogoutScreen: Class com.softwareag.mws.screens.MWSLoginLogoutScreen added

com.softwareag.mws.screens.applications.administration.systemwide.usermanagement.UsersScreen: Class com.softwareag.mws.screens.applications.administration.systemwide.usermanagement.UsersScreen added

com.webmethods.caf.faces.data.task.AggregationType: Class com.webmethods.caf.faces.data.task.AggregationType added

com.webmethods.caf.faces.data.task.IQueryAggregationInfo: Class com.webmethods.caf.faces.data.task.IQueryAggregationInfo added

com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended: Class com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended added

com.webmethods.caf.faces.data.task.IndexEngineType: Class com.webmethods.caf.faces.data.task.IndexEngineType added

com.webmethods.caf.faces.data.task.impl.QueryAggregationInfo: Class com.webmethods.caf.faces.data.task.impl.QueryAggregationInfo added

com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider: Class com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider added

com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider$HpstraInboxSearch
Query: Class
com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider$HpstraInboxSearch
Query added

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryExtended: Class
com.webmethods.caf.faces.data.task.impl.TaskSearchQueryExtended added

com.webmethods.caf.faces.render.html.table.MoveRowLinkRenderer: Class
com.webmethods.caf.faces.render.html.table.MoveRowLinkRenderer added

com.webmethods.caf.mobile.notify.impl.PushNotification: Class
com.webmethods.caf.mobile.notify.impl.PushNotification added

com.webmethods.caf.mobile.notify.impl.PushNotification$PushNotificationCommandBean: Class
com.webmethods.caf.mobile.notify.impl.PushNotification$PushNotificationCommandBean added

com.webmethods.caf.mobile.notify.impl.SubscriptionCleanUpEvent: Class
com.webmethods.caf.mobile.notify.impl.SubscriptionCleanUpEvent added

com.webmethods.caf.mobile.notify.impl.SubscriptionCleanUpHandler: Class
com.webmethods.caf.mobile.notify.impl.SubscriptionCleanUpHandler added

com.webmethods.caf.mobile.notify.task.APNSCleanUpThread: Class
com.webmethods.caf.mobile.notify.task.APNSCleanUpThread added

com.webmethods.portal.bizPolicy.biz.task.impl.TaskDBOHelper$DBIndexer: Class
com.webmethods.portal.bizPolicy.biz.task.impl.TaskDBOHelper$DBIndexer added

com.webmethods.portal.bizPolicy.biz.task.impl.TaskIndexHelper: Class
com.webmethods.portal.bizPolicy.biz.task.impl.TaskIndexHelper added

com.webmethods.portal.bizPolicy.biz.task.impl.TaskIndexHelper$Indexer: Class
com.webmethods.portal.bizPolicy.biz.task.impl.TaskIndexHelper$Indexer added

com.webmethods.portal.bizPolicy.command.system.RuntimeStatusBean: Class
com.webmethods.portal.bizPolicy.command.system.RuntimeStatusBean added

com.webmethods.portal.bizPolicy.command.system.RuntimeTimeStatus: Class
com.webmethods.portal.bizPolicy.command.system.RuntimeTimeStatus added

com.webmethods.portal.bizPolicy.command.system.RuntimeTimeStatus$StatusInfo: Class
com.webmethods.portal.bizPolicy.command.system.RuntimeTimeStatus$StatusInfo added

com.webmethods.portal.bizPolicy.command.task.rs.LayeredProductVerionResource: Class
com.webmethods.portal.bizPolicy.command.task.rs.LayeredProductVerionResource added

com.webmethods.portal.bizPolicy.command.task.rs.LayeredProductVerionResource$Product: Class
com.webmethods.portal.bizPolicy.command.task.rs.LayeredProductVerionResource$Product added

com.webmethods.portal.bizPolicy.command.task.rs.LayeredProductVerionResource$ProductHolder:
Class
com.webmethods.portal.bizPolicy.command.task.rs.LayeredProductVerionResource$ProductHolder

added

com.webmethods.portal.jms.um.QueueType: Class com.webmethods.portal.jms.um.QueueType added

com.webmethods.portal.service.meta2.dbo.HpstraIndexTable: Class com.webmethods.portal.service.meta2.dbo.HpstraIndexTable added

com.webmethods.portal.service.meta2.dbo.HpstraIndexTable$DisplayField: Class com.webmethods.portal.service.meta2.dbo.HpstraIndexTable$DisplayField added

com.webmethods.portal.service.sql.runtime.base.TaskPendingUpdatesCleanup: Class com.webmethods.portal.service.sql.runtime.base.TaskPendingUpdatesCleanup added

com.webmethods.portal.service.sql.runtime.db2.TaskLockSetNew: Class com.webmethods.portal.service.sql.runtime.db2.TaskLockSetNew added

com.webmethods.portal.service.sql.runtime.db2.UpdateThingCounter: Class com.webmethods.portal.service.sql.runtime.db2.UpdateThingCounter added

com.webmethods.portal.service.sql.runtime.mssql.ThingNewPar: Class com.webmethods.portal.service.sql.runtime.mssql.ThingNewPar added

com.webmethods.portal.service.sql.runtime.mssql.UpdateThingCounter: Class com.webmethods.portal.service.sql.runtime.mssql.UpdateThingCounter added

com.webmethods.portal.service.sql.runtime.mysql.UpdateThingCounter: Class com.webmethods.portal.service.sql.runtime.mysql.UpdateThingCounter added

com.webmethods.portal.service.sql.runtime.oracle.TaskLockSetNew: Class com.webmethods.portal.service.sql.runtime.oracle.TaskLockSetNew added

com.webmethods.portal.service.sql.runtime.oracle.UpdateThingCounter: Class com.webmethods.portal.service.sql.runtime.oracle.UpdateThingCounter added

com.webmethods.portal.service.task.ITaskIndexEngineConfiguration: Class com.webmethods.portal.service.task.ITaskIndexEngineConfiguration added

com.webmethods.portal.service.task.ITaskIndexManager: Class com.webmethods.portal.service.task.ITaskIndexManager added

com.webmethods.portal.service.task.ITaskInfoFieldConverters: Class com.webmethods.portal.service.task.ITaskInfoFieldConverters added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$AcceptedByListValueConverter: Class com.webmethods.portal.service.task.ITaskInfoFieldConverters$AcceptedByListValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$CurrentUserValueConverter: Class com.webmethods.portal.service.task.ITaskInfoFieldConverters$CurrentUserValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$DateValueConverter: Class com.webmethods.portal.service.task.ITaskInfoFieldConverters$DateValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$FieldValueConverter: Class com.webmethods.portal.service.task.ITaskInfoFieldConverters$FieldValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$PriorityValueConverter: Class
com.webmethods.portal.service.task.ITaskInfoFieldConverters$PriorityValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$StatusValueConverter: Class
com.webmethods.portal.service.task.ITaskInfoFieldConverters$StatusValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$TaskIDValueConverter: Class
com.webmethods.portal.service.task.ITaskInfoFieldConverters$TaskIDValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$TaskTypeIDValueConverter: Class
com.webmethods.portal.service.task.ITaskInfoFieldConverters$TaskTypeIDValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$URIValueConverter: Class
com.webmethods.portal.service.task.ITaskInfoFieldConverters$URIValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$UserValueConverter: Class
com.webmethods.portal.service.task.ITaskInfoFieldConverters$UserValueConverter added

com.webmethods.portal.service.task.SearchContext: Class
com.webmethods.portal.service.task.SearchContext added

com.webmethods.portal.service.task.SearchKey: Class com.webmethods.portal.service.task.SearchKey added

com.webmethods.portal.service.task.SearchKey$TE_SearchKeys: Class
com.webmethods.portal.service.task.SearchKey$TE_SearchKeys added

com.webmethods.portal.service.task.TaskIndexEngineFactory: Class
com.webmethods.portal.service.task.TaskIndexEngineFactory added

com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent: Class
com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent added

com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$DistributionChangeType: Class
com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$DistributionChangeType added

com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$IListener: Class
com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$IListener added

com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$ISynchronousListener: Class
com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$ISynchronousListener added

com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$Listeners: Class
com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$Listeners added

com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$SynchronousListeners: Class
com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$SynchronousListeners added

com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$SynchronousListeners$SynchronousListener: Class
com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$SynchronousListeners$SynchronousListener added

com.webmethods.portal.service.task.event.impl.TaskDistributionChangedEvent: Class
com.webmethods.portal.service.task.event.impl.TaskDistributionChangedEvent added

com.webmethods.portal.service.task.event.impl.TaskReindexStopEvent: Class
com.webmethods.portal.service.task.event.impl.TaskReindexStopEvent added

com.webmethods.portal.service.task.impl.TaskDBIndexConfiguration: Class
com.webmethods.portal.service.task.impl.TaskDBIndexConfiguration added

com.webmethods.portal.system.cluster.impl.ClusterNodeRegisteredNotifier: Class
com.webmethods.portal.system.cluster.impl.ClusterNodeRegisteredNotifier added

com.webmethods.pushNotification.apns.connection.pool.APNSConnectionPool: Class
com.webmethods.pushNotification.apns.connection.pool.APNSConnectionPool added

com.webmethods.pushNotification.apns.connection.pool.APNSConnectionPoolManager: Class
com.webmethods.pushNotification.apns.connection.pool.APNSConnectionPoolManager added

com.webmethods.pushNotification.apns.connection.pool.APNSConnectionProvider: Class
com.webmethods.pushNotification.apns.connection.pool.APNSConnectionProvider added

com.webmethods.pushNotification.apns.connection.pool.APNSPoolableConnection: Class
com.webmethods.pushNotification.apns.connection.pool.APNSPoolableConnection added

com.webmethods.pushNotification.apns.connection.pool.IConnectionProvider: Class
com.webmethods.pushNotification.apns.connection.pool.IConnectionProvider added

com.webmethods.pushNotification.apns.connection.pool.IPoolableConnection: Class
com.webmethods.pushNotification.apns.connection.pool.IPoolableConnection added

Removed API	Replacement, if any
com.webmethods.caf.mobile.notify.task.NotificationSender: Removed java.lang.Runnable from the set of implemented interfaces	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_ACCEPTED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_CANCELLED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_COMPLETED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_EXPIRED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_FAILED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_QUEUED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_REASSIGNED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_RELEASED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_RESUMED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_SUSPENDED	
com.webmethods.portal.bizPolicy.biz.task.impl.TaskDBOHelper: Removed field reindexAllTaskExecutor	
com.webmethods.portal.bizPolicy.biz.task.impl.TaskDBOHelper: Removed field reindexingTasks	
com.webmethods.portal.mech.task.impl.TaskMechanics: Removed field USE_LIGHT_WEIGHT_EVENTS	

Deprecated API	Replacement, if any
com.webmethods.portal.service.task.impl.TaskDistributionService: Method 'public java.util.List getPrincipalActors(com.webmethods.portal.system.IURI[], boolean)' has been deprecated	
com.webmethods.portal.service.task.impl.TaskDistributionService: Method 'protected java.util.List returnPagedTaskList(java.lang.String, java.lang.Object[], boolean)' has been deprecated	

Changed API	Description

com.webmethods.caf.mobile.notify.impl.AppleMessagingCloudConnectionDetails: Increased visibility of class from package to public

com.webmethods.caf.mobile.notify.util.MobileNotifierUtil: Value of compile-time constant ANDROID_JASON_PAYLOAD_TEMPLATE has been changed

com.webmethods.caf.faces.bean.BaseFacesBean: Accessibility of field EMPTY_RESOURCES has been increased from package to public

com.webmethods.caf.mobile.notify.task.NotificationSender: In method 'public NotificationSender(java.util.concurrent.BlockingQueue, com.sun.jersey.api.client.WebResource$Builder)' the number of arguments has changed

com.webmethods.caf.mobile.notify.util.MobileNotifierUtil: In method 'public com.webmethods.caf.mobile.notify.task.Message generatePayload(java.util.List, java.lang.String, java.lang.String)' the number of arguments has changed

com.webmethods.portal.jms.um.UmJMSClient: In method 'protected void createQueue(java.lang.String, boolean, int)' the number of arguments has changed

com.webmethods.portal.jms.um.UmJMSClient: In method 'protected void createTopic(java.lang.String, boolean, int)' the number of arguments has changed

com.webmethods.portal.mech.task.impl.TaskMechanics: In method 'public void fireTaskReindexStopEvent(com.webmethods.portal.service.task.ITaskDefinition)' the number of arguments has changed

com.webmethods.caf.mobile.notify.util.MobileNotifierUtil: Return type of method 'public com.webmethods.caf.mobile.notify.task.Message generateAndroidPayload(java.util.List, java.lang.String, java.lang.String)' has been changed to java.lang.String

com.webmethods.portal.jms.db.DbJMSConnProvider: Accessibility of method 'public DbJMSConnProvider()' has been decreased from public to private

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Added API	Description

com.webmethods.caf.common.thread.NamedThreadFactory: Method 'public NamedThreadFactory(java.lang.String, boolean)' has been added

com.webmethods.caf.faces.bean.mws_ui.HtmlHead: Method 'public java.lang.String getEffectsJS()' has been added

com.webmethods.caf.faces.convert.FormattedDateTimeConverter: Added protected field dateFormatDefault

com.webmethods.caf.faces.data.object.DateRange: Added protected field controlCalendar

Added API	Description

com.webmethods.caf.faces.data.object.DateRange: Method 'protected java.util.Calendar getControlCalendar(javax.faces.context.FacesContext)' has been added

com.webmethods.caf.faces.data.object.DateRange: Method 'public void setControlCalendar(java.util.Calendar)' has been added

com.webmethods.caf.mobile.notify.IMobileNotificationConstants: Class com.webmethods.caf.mobile.notify.IMobileNotificationConstants added

com.webmethods.caf.mobile.notify.IMobileNotificationProvider: Class com.webmethods.caf.mobile.notify.IMobileNotificationProvider added

com.webmethods.caf.mobile.notify.IMobileNotifierComponent: Class com.webmethods.caf.mobile.notify.IMobileNotifierComponent added

com.webmethods.caf.mobile.notify.activator.MobileNotificationActivator: Class com.webmethods.caf.mobile.notify.activator.MobileNotificationActivator added

com.webmethods.caf.mobile.notify.impl.MobileNotificationProvider: Class com.webmethods.caf.mobile.notify.impl.MobileNotificationProvider added

com.webmethods.caf.mobile.notify.impl.MobileNotifierComponent: Class com.webmethods.caf.mobile.notify.impl.MobileNotifierComponent added

com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Class com.webmethods.caf.mobile.notify.impl.TaskEventsHandler added

com.webmethods.caf.mobile.notify.task.Message: Class com.webmethods.caf.mobile.notify.task.Message added

com.webmethods.caf.mobile.notify.task.MonitorPendingNotificationMessages: Class com.webmethods.caf.mobile.notify.task.MonitorPendingNotificationMessages added

com.webmethods.caf.mobile.notify.task.NotificationSender: Class com.webmethods.caf.mobile.notify.task.NotificationSender added

com.webmethods.caf.mobile.notify.util.MobileNotifierUtil: Class com.webmethods.caf.mobile.notify.util.MobileNotifierUtil added

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Method 'public org.w3c.dom.Element marshallSamlObject(org.opensaml.xml.XMLObject)' has been added

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Method 'public org.opensaml.xml.XMLObject unmarshallElement(org.w3c.dom.Element)' has been added

com.webmethods.portal.bizPolicy.biz.dir.IGroupBizPolicy: Added com.webmethods.portal.bizPolicy.biz.view.IViewableContainerPolicy to the set of implemented interfaces

com.webmethods.portal.bizPolicy.biz.dir.IPrincipalBizPolicy: Added com.webmethods.portal.bizPolicy.biz.view.IViewableContainerPolicy to the set of implemented

Added API	Description
	interfaces

com.webmethods.portal.bizPolicy.biz.dir.IUserBizPolicy: Added
com.webmethods.portal.bizPolicy.biz.view.IViewableContainerPolicy to the set of implemented
interfaces

com.webmethods.portal.bizPolicy.biz.dir.impl.GroupBizPolicy: Added
com.webmethods.portal.bizPolicy.biz.view.IViewableContainerPolicy to the set of implemented
interfaces

com.webmethods.portal.bizPolicy.biz.dir.impl.GroupBizPolicy: Added
com.webmethods.portal.bizPolicy.biz.view.impl.ViewableContainerPolicy to the list of superclasses

com.webmethods.portal.bizPolicy.biz.dir.impl.PrincipalBizPolicy: Added
com.webmethods.portal.bizPolicy.biz.view.IViewableContainerPolicy to the set of implemented
interfaces

com.webmethods.portal.bizPolicy.biz.dir.impl.PrincipalBizPolicy: Added
com.webmethods.portal.bizPolicy.biz.view.impl.ViewableContainerPolicy to the list of superclasses

com.webmethods.portal.bizPolicy.biz.dir.impl.UserBizPolicy: Added
com.webmethods.portal.bizPolicy.biz.view.IViewableContainerPolicy to the set of implemented
interfaces

com.webmethods.portal.bizPolicy.biz.dir.impl.UserBizPolicy: Added
com.webmethods.portal.bizPolicy.biz.view.impl.ViewableContainerPolicy to the list of superclasses

com.webmethods.portal.bizPolicy.biz.task.impl.TaskInfo: Added java.io.Serializable to the set of
implemented interfaces

com.webmethods.portal.bizPolicy.biz.task.impl.TaskInfoExtended: Added java.io.Serializable to the set
of implemented interfaces

com.webmethods.portal.bizPolicy.command.ICommandManager: Method 'public
com.webmethods.portal.bizPolicy.command.IRemoteCommandTransport
getRemoteCommandTransport(java.lang.String)' has been added to an interface

com.webmethods.portal.bizPolicy.command.ICommandManager: Method 'public java.util.List
invokeClusterCommand(com.webmethods.portal.bizPolicy.IContext,

com.webmethods.portal.bizPolicy.command.ICommand,
com.webmethods.portal.bizPolicy.command.ICommandBean)' has been added to an interface

com.webmethods.portal.bizPolicy.command.ICommandResponseEntry: Class

com.webmethods.portal.bizPolicy.command.ICommandResponseEntry added

com.webmethods.portal.bizPolicy.command.dir.GetPortalStyle: Method 'protected void
checkAccess(com.webmethods.portal.bizPolicy.IContext,

com.webmethods.portal.mech.dir.IPrincipalMechanics, com.webmethods.portal.system.IURI)' has
been added

Added API	Description
com.webmethods.portal.bizPolicy.command.dir.SearchDirectory: Method 'protected void checkAccess(com.webmethods.portal.bizPolicy.IContext,	
com.webmethods.portal.mech.dir.IDirServiceMechanics, com.webmethods.portal.service.meta2.thing.IThingID)' has been added	
com.webmethods.portal.bizPolicy.command.dir.SearchDirectoryEx: Method 'protected void checkAccess(com.webmethods.portal.bizPolicy.IContext,	
com.webmethods.portal.mech.dir.IDirServiceMechanics, com.webmethods.portal.service.meta2.thing.IThingID)' has been added	
com.webmethods.portal.bizPolicy.command.dir.SearchDirectoryRefined: Method 'protected void checkAccess(com.webmethods.portal.bizPolicy.IContext,	
com.webmethods.portal.mech.dir.IDirServiceMechanics, com.webmethods.portal.service.meta2.thing.IThingID)' has been added	
com.webmethods.portal.bizPolicy.command.dir.SearchDirectoryRefinedPaged: Method 'protected void checkAccess(com.webmethods.portal.bizPolicy.IContext,	
com.webmethods.portal.mech.dir.IDirServiceMechanics, com.webmethods.portal.service.meta2.thing.IThingID)' has been added	
com.webmethods.portal.bizPolicy.command.impl.CommandManager: Method 'public com.webmethods.portal.bizPolicy.command.IRemoteCommandTransport getRemoteCommandTransport(java.lang.String)' has been added	
com.webmethods.portal.bizPolicy.command.impl.CommandManager: Method 'public java.util.List invokeClusterCommand(com.webmethods.portal.bizPolicy.IContext,	
com.webmethods.portal.bizPolicy.command.ICommand, com.webmethods.portal.bizPolicy.command.ICommandBean)' has been added	
com.webmethods.portal.bizPolicy.command.remote.RemoteCommand: Class com.webmethods.portal.bizPolicy.command.remote.RemoteCommand added	
com.webmethods.portal.bizPolicy.command.remote.RemoteCommandBean: Class com.webmethods.portal.bizPolicy.command.remote.RemoteCommandBean added	
com.webmethods.portal.bizPolicy.command.remote.jms.JmsRemoteCommandTransport: Class com.webmethods.portal.bizPolicy.command.remote.jms.JmsRemoteCommandTransport added	
com.webmethods.portal.bizPolicy.command.remote.jms.JmsRemoteCommandTransport$RemoteJmsException: Class	
com.webmethods.portal.bizPolicy.command.remote.jms.JmsRemoteCommandTransport$RemoteJmsException added	
com.webmethods.portal.bizPolicy.command.remote.jms.JmsRemoteTransaction: Class com.webmethods.portal.bizPolicy.command.remote.jms.JmsRemoteTransaction added	

Added API	Description
com.webmethods.portal.bizPolicy.command.system.JndiRefreshCluster: Class com.webmethods.portal.bizPolicy.command.system.JndiRefreshCluster added	
com.webmethods.portal.bizPolicy.command.task.jms.AbstractTaskCommand: Class com.webmethods.portal.bizPolicy.command.task.jms.AbstractTaskCommand added	
com.webmethods.portal.bizPolicy.command.task.jms.AbstractTaskCommandBean: Class com.webmethods.portal.bizPolicy.command.task.jms.AbstractTaskCommandBean added	
com.webmethods.portal.bizPolicy.command.task.jms.AddTaskAttachmentJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.AddTaskAttachmentJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.AddTaskCommentJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.AddTaskCommentJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.DeleteTaskAttachmentJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.DeleteTaskAttachmentJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.DeleteTaskCommentJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.DeleteTaskCommentJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.DeleteTaskJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.DeleteTaskJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.GetTaskAttachmentsJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.GetTaskAttachmentsJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.GetTaskAuditJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.GetTaskAuditJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.GetTaskCommentsJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.GetTaskCommentsJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.GetTaskJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.GetTaskJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.QueueTaskJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.QueueTaskJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.SearchTasksFieldsJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.SearchTasksFieldsJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.SearchTasksJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.SearchTasksJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.SearchTasksPagedJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.SearchTasksPagedJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.SearchTasksTotalCountJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.SearchTasksTotalCountJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.UpdateTaskAttachmentJMS: Class	

Added API	Description

com.webmethods.portal.bizPolicy.command.task.jms.UpdateTaskAttachmentJMS added

com.webmethods.portal.bizPolicy.command.task.jms.UpdateTaskCommentJMS: Class
com.webmethods.portal.bizPolicy.command.task.jms.UpdateTaskCommentJMS added

com.webmethods.portal.bizPolicy.command.task.jms.UpdateTaskJMS: Class
com.webmethods.portal.bizPolicy.command.task.jms.UpdateTaskJMS added

com.webmethods.portal.bizPolicy.command.task.jms.impl.TaskJMSUtils: Class
com.webmethods.portal.bizPolicy.command.task.jms.impl.TaskJMSUtils added

com.webmethods.portal.bizPolicy.command.task.rs.MWSCustomDispatchProvider: Class
com.webmethods.portal.bizPolicy.command.task.rs.MWSCustomDispatchProvider added

com.webmethods.portal.bizPolicy.command.task.rs.MWSRequestDispatcher: Class
com.webmethods.portal.bizPolicy.command.task.rs.MWSRequestDispatcher added

com.webmethods.portal.bizPolicy.command.task.webservice.SearchTasksFieldsWS: Added
java.io.Serializable to the set of implemented interfaces

com.webmethods.portal.bizPolicy.command.task.webservice.SearchTasksWS: Added
java.io.Serializable to the set of implemented interfaces

com.webmethods.portal.bizPolicy.command.task.webservice.Task: Added java.io.Serializable to the set
of implemented interfaces

com.webmethods.portal.bizPolicy.command.task.webservice.dotnet.SearchTasksDotNetWS: Added
java.io.Serializable to the set of implemented interfaces

com.webmethods.portal.bizPolicy.command.task.webservice.dotnet.SearchTasksFieldsDotNetWS:
Added java.io.Serializable to the set of implemented interfaces

com.webmethods.portal.bizPolicy.impl.upgrade.MoveVersionSystemComponentData: Class
com.webmethods.portal.bizPolicy.impl.upgrade.MoveVersionSystemComponentData added

com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent: Class
com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent added

com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$IListener: Class
com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$IListener added

com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$ISynchronousListener: Class
com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$ISynchronousListener added

com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$Listeners: Class
com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$Listeners added

com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$QueueListeners: Class
com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$QueueListeners added

com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$SynchronousListeners: Class
com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$SynchronousListeners added

Added API	Description

com.webmethods.portal.event.dir.impl.DirPrincipalDNUpdationEvent: Class
com.webmethods.portal.event.dir.impl.DirPrincipalDNUpdationEvent added

com.webmethods.portal.event.sso.ISSODataChangeEvent: Class
com.webmethods.portal.event.sso.ISSODataChangeEvent added

com.webmethods.portal.event.sso.ISSODataChangeEvent$IListener: Class
com.webmethods.portal.event.sso.ISSODataChangeEvent$IListener added

com.webmethods.portal.event.sso.ISSODataChangeEvent$ISynchronousListener: Class
com.webmethods.portal.event.sso.ISSODataChangeEvent$ISynchronousListener added

com.webmethods.portal.event.sso.ISSODataChangeEvent$Listeners: Class
com.webmethods.portal.event.sso.ISSODataChangeEvent$Listeners added

com.webmethods.portal.event.sso.ISSODataChangeEvent$QueueListeners: Class
com.webmethods.portal.event.sso.ISSODataChangeEvent$QueueListeners added

com.webmethods.portal.event.sso.ISSODataChangeEvent$SynchronousListeners: Class
com.webmethods.portal.event.sso.ISSODataChangeEvent$SynchronousListeners added

com.webmethods.portal.event.sso.impl.SSODataChangeEvent: Class
com.webmethods.portal.event.sso.impl.SSODataChangeEvent added

com.webmethods.portal.framework.dispatch.handlers.system.SAMLSSOHandler: Class
com.webmethods.portal.framework.dispatch.handlers.system.SAMLSSOHandler added

com.webmethods.portal.framework.dispatch.preProcessors.OpenRedirectCheck: Class
com.webmethods.portal.framework.dispatch.preProcessors.OpenRedirectCheck added

com.webmethods.portal.framework.dispatch.resolvers.SAMLAuthReqResolver: Class
com.webmethods.portal.framework.dispatch.resolvers.SAMLAuthReqResolver added

com.webmethods.portal.framework.impl.PortalServlet: Added public field
PORTAL_SERVLET_LOCK_OBJ

com.webmethods.portal.framework.portletcontainer.servlet.JettyPortletRequestWrapper: Method
'public org.eclipse.jetty.util.MultiMap getParameterMultiMap()' has been added

com.webmethods.portal.framework.portletcontainer.servlet.JettyPortletRequestWrapper: Method
'public java.util.Map getParameters()' has been added

com.webmethods.portal.jms.JMSPhaseProvider: Added com.webmethods.portal.system.IComponent
to the set of implemented interfaces

com.webmethods.portal.jms.JMSPhaseProvider: Added com.webmethods.portal.system.IConstants to
the set of implemented interfaces

com.webmethods.portal.jms.JMSPhaseProvider: Added
com.webmethods.portal.system.impl.BaseComponent to the list of superclasses

com.webmethods.portal.jms.JMSPhaseProvider: Added public field COMPONENT_NAME

Added API	Description

com.webmethods.portal.jms.um.UmJMSClient: Added abstract modifier to class

com.webmethods.portal.jms.um.UmJMSClient: Added com.webmethods.portal.system.init.IInitializable to the set of implemented interfaces

com.webmethods.portal.jms.um.UmJMSClient: Added com.webmethods.rtl.msg.jms.IJMSProvider to the set of implemented interfaces

com.webmethods.portal.jms.um.UmJMSClient: Added com.webmethods.rtl.msg.jms.JMSProvider to the list of superclasses

com.webmethods.portal.jms.um.UmJMSClient: Added com.webmethods.rtl.msg.jms.JMSStdConnProvider to the list of superclasses

com.webmethods.portal.jms.um.UmJMSClient: Method 'protected boolean createInitialContext()' has been added

com.webmethods.portal.jms.um.UmJMSClient: Method 'protected void registerFactory(org.w3c.dom.Element)' has been added

com.webmethods.portal.jms.um.UmJMSClient: Method 'protected void registerQueue(org.w3c.dom.Element)' has been added

com.webmethods.portal.jms.um.UmJMSClient: Method 'protected void registerTopic(org.w3c.dom.Element)' has been added

com.webmethods.portal.jms.um.UmJMSClient: Method 'protected void resetContext()' has been added

com.webmethods.portal.jms.um.UmJMSConnProvider: Added com.webmethods.portal.jms.um.UmJMSClient to the list of superclasses

com.webmethods.portal.jms.um.UmJMSConnProvider: Method 'protected void onDisconnect(boolean)' has been added

com.webmethods.portal.jms.um.UmJMSConnProvider: Method 'public void onShutdown()' has been added

com.webmethods.portal.mech.dir.IDirServiceMechanics: Method 'public java.util.List updatePrincipalUUID(int)' has been added to an interface

com.webmethods.portal.mech.dir.IGroupMechanics: Added com.webmethods.portal.mech.view.IViewableContainerMechanics to the set of implemented interfaces

com.webmethods.portal.mech.dir.IPrincipalMechanics: Added com.webmethods.portal.mech.view.IViewableContainerMechanics to the set of implemented interfaces

com.webmethods.portal.mech.dir.IRoleMechanics: Added com.webmethods.portal.mech.view.IViewableContainerMechanics to the set of implemented interfaces

com.webmethods.portal.mech.dir.IUserMechanics: Added com.webmethods.portal.mech.view.IViewableContainerMechanics to the set of implemented interfaces

com.webmethods.portal.mech.dir.impl.DirMechanicsUtils: Method 'public java.lang.String

Added API	Description

generateUUIDQuery(com.webmethods.portal.service.dir.IDirService, java.lang.String, int)' has been added

com.webmethods.portal.mech.dir.impl.DirServiceMechanics: Method 'public java.util.List updatePrincipalUUID(int)' has been added

com.webmethods.portal.mech.dir.impl.GroupMechanics: Added com.webmethods.portal.mech.view.IViewableContainerMechanics to the set of implemented interfaces

com.webmethods.portal.mech.dir.impl.GroupMechanics: Added com.webmethods.portal.mech.view.impl.ViewableContainerMechanics to the list of superclasses

com.webmethods.portal.mech.dir.impl.PrincipalMechanics: Added com.webmethods.portal.mech.view.IViewableContainerMechanics to the set of implemented interfaces

com.webmethods.portal.mech.dir.impl.PrincipalMechanics: Added com.webmethods.portal.mech.view.impl.ViewableContainerMechanics to the list of superclasses

com.webmethods.portal.mech.dir.impl.RoleMechanics: Added com.webmethods.portal.mech.view.IViewableContainerMechanics to the set of implemented interfaces

com.webmethods.portal.mech.dir.impl.RoleMechanics: Added com.webmethods.portal.mech.view.impl.ViewableContainerMechanics to the list of superclasses

com.webmethods.portal.mech.dir.impl.UserMechanics: Added com.webmethods.portal.mech.view.IViewableContainerMechanics to the set of implemented interfaces

com.webmethods.portal.mech.dir.impl.UserMechanics: Added com.webmethods.portal.mech.view.impl.ViewableContainerMechanics to the list of superclasses

com.webmethods.portal.mech.task.impl.RefreshTaskHandler: Class com.webmethods.portal.mech.task.impl.RefreshTaskHandler added

com.webmethods.portal.mech.task.impl.TaskHelper: Method 'public java.lang.ClassLoader getClassLoaderIfExists(com.webmethods.portal.service.task.ITaskDefinition)' has been added

com.webmethods.portal.mech.view.impl.ViewableContainerMechanics: Method 'protected com.webmethods.portal.service.view.IPagingCookie createPagingCookie(com.webmethods.portal.service.meta2.thing.IThingID)' has been added

com.webmethods.portal.service.access.IAccessPrivilegeConfiguration: Class com.webmethods.portal.service.access.IAccessPrivilegeConfiguration added

com.webmethods.portal.service.access.impl.DashboardAclManager: Class com.webmethods.portal.service.access.impl.DashboardAclManager added

com.webmethods.portal.service.access.impl.DashboardAclManager$DashboardAclResource: Class com.webmethods.portal.service.access.impl.DashboardAclManager$DashboardAclResource added

com.webmethods.portal.service.access.impl.DashboardContainerAclManager: Class com.webmethods.portal.service.access.impl.DashboardContainerAclManager added

Added API	Description

com.webmethods.portal.service.access.impl.DashboardContainerAclManager$DashboardContainerAcl
Resource: Class

com.webmethods.portal.service.access.impl.DashboardContainerAclManager$DashboardContainerAcl
Resource added

com.webmethods.portal.service.access.impl.GadgetsAclManager: Method 'public java.util.Map
getResultColumnMetadata()' has been added

com.webmethods.portal.service.access.impl.GadgetsAclManager: Method 'public java.util.List
searchResources(com.webmethods.caf.faces.search.query.ISearchQuery)' has been added

com.webmethods.portal.service.access.impl.GadgetsAclManager$GadgetAclResource: Method 'public
java.lang.Object getValue(java.lang.Object)' has been added

com.webmethods.portal.service.access.impl.WMAppsAclManager: Method 'public void
addServiceTracker(org.osgi.framework.BundleContext)' has been added

com.webmethods.portal.service.access.impl.WMAppsAclManager: Method 'public void
stopServiceTracker()' has been added

com.webmethods.portal.service.cache.impl.AliasCache: Added
com.webmethods.portal.event.remove.IDeleteEvent$ISynchronousListener to the set of implemented
interfaces

com.webmethods.portal.service.cache.impl.AliasCache: Method 'public void
onSynchronousEvent(com.webmethods.portal.event.remove.IDeleteEvent)' has been added

com.webmethods.portal.service.dir.DirectoryTools: Added public field UUIDUserResolution

com.webmethods.portal.service.dir.DirectoryTools: Added protected field UUID_CONFIG

com.webmethods.portal.service.dir.DirectoryTools: Method 'public
com.webmethods.portal.service.dir.IDirService
getDirectoryService(com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.service.dir.DirectoryTools: Method 'public java.util.List
getEmptyUUIDUsers()' has been added

com.webmethods.portal.service.dir.DirectoryTools: Method 'public java.lang.Boolean
getUUIDResolution()' has been added

com.webmethods.portal.service.dir.DirectoryTools: Method 'public java.lang.String
getUserDNFromUserUUID(java.lang.String, com.webmethods.portal.service.meta2.IUserService)' has
been added

com.webmethods.portal.service.dir.DirectoryTools: Method 'public void
invalidateGroupRoleCache(com.webmethods.portal.service.meta2.thing.IThingID)' has been added

com.webmethods.portal.service.dir.DirectoryTools: Method 'public
com.webmethods.portal.service.meta2.thing.IThingID

Added API	Description

resolveUserByUUID(com.webmethods.portal.service.dir.init.IInitializableUser)' has been added

com.webmethods.portal.service.dir.DirectoryTools: Method 'public java.util.List updatePrincipalUUID()' has been added

com.webmethods.portal.service.dir.IDirConstants: Added public field USER_UUID

com.webmethods.portal.service.dir.IDirQueryProvider: Method 'public com.webmethods.portal.service.dir.IDirPrincipal lookupByUUID(int, java.lang.String)' has been added to an interface

com.webmethods.portal.service.dir.impl.DirServicePortletBean: Method 'public boolean isSirNameFirst(com.webmethods.portal.bizPolicy.IContext)' has been added

com.webmethods.portal.service.dir.init.IInitializablePrincipal: Method 'public java.lang.String getUUID()' has been added to an interface

com.webmethods.portal.service.dir.init.impl.InitializablePrincipal: Method 'public java.lang.String getUUID()' has been added

com.webmethods.portal.service.meta2.IUserService: Method 'public java.util.List getEmptyUUIDUsers()' has been added to an interface

com.webmethods.portal.service.meta2.IUserService: Method 'public java.util.Map getUserDetailsByURI(com.webmethods.portal.system.IURI)' has been added to an interface

com.webmethods.portal.service.meta2.IUserService: Method 'public java.util.Map getUserDetailsByUUID(java.lang.String)' has been added to an interface

com.webmethods.portal.service.meta2.IUserService: Method 'public void invalidateUserUUID()' has been added to an interface

com.webmethods.portal.service.meta2.IUserService: Method 'public void updateDistinguishedName(java.lang.String, java.lang.String, int)' has been added to an interface

com.webmethods.portal.service.meta2.IUserService: Method 'public void updateUUID(java.lang.String, java.lang.String, int)' has been added to an interface

com.webmethods.portal.service.meta2.directory.IUserInfo: Method 'public java.lang.String getUUID()' has been added to an interface

com.webmethods.portal.service.meta2.directory.impl.User: Method 'public java.lang.String getUUID()' has been added

com.webmethods.portal.service.meta2.directory.impl.UserInfo: Added protected field uuid

com.webmethods.portal.service.meta2.directory.impl.UserInfo: Method 'public java.lang.String getUUID()' has been added

com.webmethods.portal.service.meta2.impl.UserService: Method 'public java.util.List getEmptyUUIDUsers()' has been added

com.webmethods.portal.service.meta2.impl.UserService: Method 'public java.util.Map

Added API	Description

getUserDetailsByURI(com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.service.meta2.impl.UserService: Method 'public java.util.Map getUserDetailsByUUID(java.lang.String)' has been added

com.webmethods.portal.service.meta2.impl.UserService: Method 'public void invalidateUserUUID()' has been added

com.webmethods.portal.service.meta2.impl.UserService: Method 'public void updateDistinguishedName(java.lang.String, java.lang.String, int)' has been added

com.webmethods.portal.service.meta2.impl.UserService: Method 'public void updateUUID(java.lang.String, java.lang.String, int)' has been added

com.webmethods.portal.service.socialbpm.chart.impl.ChartData: Method 'public java.lang.String getTaskTypeID()' has been added

com.webmethods.portal.service.socialbpm.chart.impl.ChartData: Method 'public void setTaskTypeID(java.lang.String)' has been added

com.webmethods.portal.service.socialbpm.chart.impl.ChartService: Method 'protected java.lang.String getTaskTypeID(java.lang.String)' has been added

com.webmethods.portal.service.sql.runtime.base.EmptyUUIDUserList: Class com.webmethods.portal.service.sql.runtime.base.EmptyUUIDUserList added

com.webmethods.portal.service.sql.runtime.base.InvalidateUserUUID: Class com.webmethods.portal.service.sql.runtime.base.InvalidateUserUUID added

com.webmethods.portal.service.sql.runtime.base.SetUserGroupUUID: Class com.webmethods.portal.service.sql.runtime.base.SetUserGroupUUID added

com.webmethods.portal.service.sql.runtime.base.TaskLockSetNew: Class com.webmethods.portal.service.sql.runtime.base.TaskLockSetNew added

com.webmethods.portal.service.sql.runtime.base.UserDetailsByURI: Class com.webmethods.portal.service.sql.runtime.base.UserDetailsByURI added

com.webmethods.portal.service.sql.runtime.base.UserDetailsByUUID: Class com.webmethods.portal.service.sql.runtime.base.UserDetailsByUUID added

com.webmethods.portal.service.task.ITaskLockingService: Method 'public com.webmethods.portal.service.task.ITaskLock acquireLock(com.webmethods.portal.system.IURI,

com.webmethods.portal.system.IURI, long, long, boolean)' has been added to an interface

com.webmethods.portal.service.task.event.RefreshTaskEvent: Class com.webmethods.portal.service.task.event.RefreshTaskEvent added

com.webmethods.portal.service.task.event.RefreshTaskEvent$ISynchronousListener: Class com.webmethods.portal.service.task.event.RefreshTaskEvent$ISynchronousListener added

com.webmethods.portal.service.task.event.RefreshTaskEvent$SynchronousListeners: Class

Added API	Description

com.webmethods.portal.service.task.event.RefreshTaskEvent$SynchronousListeners added

com.webmethods.portal.service.task.event.RefreshTaskEvent$SynchronousListeners$SynchronousListener: Class

com.webmethods.portal.service.task.event.RefreshTaskEvent$SynchronousListeners$SynchronousListener added

com.webmethods.portal.service.task.event.TaskChangedEventRetry: Class

com.webmethods.portal.service.task.event.TaskChangedEventRetry added

com.webmethods.portal.service.task.event.impl.RefreshTaskEvent: Class
com.webmethods.portal.service.task.event.impl.RefreshTaskEvent added

com.webmethods.portal.service.task.impl.TaskLockingService: Method 'public
com.webmethods.portal.service.task.ITaskLock acquireLock(com.webmethods.portal.system.IURI,
com.webmethods.portal.system.IURI, long, long, boolean)' has been added

com.webmethods.portal.system.ISAMLSSOConstants: Class
com.webmethods.portal.system.ISAMLSSOConstants added

com.webmethods.portal.system.cluster.IClusterProvider: Method 'public java.lang.String
getClusterId()' has been added to an interface

com.webmethods.portal.system.cluster.IClusterProvider: Method 'public boolean
isCurrentServer(com.webmethods.portal.system.cluster.IServer)' has been added to an interface

com.webmethods.portal.system.cluster.IClusterProvider: Method 'public void
recreateJNDIConnection()' has been added to an interface

com.webmethods.portal.system.cluster.IClusterProvider: Method 'public boolean
reloadJNDIProviderURL()' has been added to an interface

com.webmethods.portal.system.cluster.impl.ClusterProvider: Added public field
CLUSTER_ID_PROP_KEY

com.webmethods.portal.system.cluster.impl.ClusterProvider: Added public field s_logCategory

com.webmethods.portal.system.cluster.impl.ClusterProvider: Method 'public java.lang.String
getClusterId()' has been added

com.webmethods.portal.system.cluster.impl.ClusterProvider: Method 'public boolean
isCurrentServer(com.webmethods.portal.system.cluster.IServer)' has been added

com.webmethods.portal.system.cluster.impl.ClusterProvider: Method 'public void
recreateJNDIConnection()' has been added

com.webmethods.portal.system.cluster.impl.ClusterProvider: Method 'public boolean
reloadJNDIProviderURL()' has been added

com.webmethods.portal.system.sso.saml.idp.SAMLIdentityProvider: Class
com.webmethods.portal.system.sso.saml.idp.SAMLIdentityProvider added

Added API	Description

com.webmethods.portal.system.sso.saml.idp.SAMLSSODataChangeListener: Class
com.webmethods.portal.system.sso.saml.idp.SAMLSSODataChangeListener added

com.webmethods.portal.system.sso.saml.idp.SAMLServiceProvider: Class
com.webmethods.portal.system.sso.saml.idp.SAMLServiceProvider added

com.webmethods.portal.system.sso.saml.idp.SSOIDPConfiguration: Class
com.webmethods.portal.system.sso.saml.idp.SSOIDPConfiguration added

com.webmethods.portal.system.sso.saml.idp.WebSSOPropsUtil: Class

com.webmethods.portal.system.sso.saml.idp.WebSSOPropsUtil added

com.webmethods.portal.taglib.TaglibUtil: Method 'public java.lang.String generateUniqueID()' has been added

com.webmethods.portal.webservices.wsclient.PortalArtifactFactory: Method 'public org.opensaml.saml2.core.AuthnRequest getAuthnRequest(java.lang.String)' has been added

com.webmethods.portal.webservices.wsclient.PortalArtifactFactory: Method 'public java.lang.String getResponse(java.net.URL, java.lang.String, java.util.Map, java.lang.String[], java.util.Map, org.opensaml.saml2.core.AuthnRequest)' has been added

com.webmethods.portal.webservices.wsclient.PortalArtifactFactory: Method 'public void reInitSecurityTokenService()' has been added

com.webmethods.rtl.event.DeliveryService: Method 'public java.lang.String addClusterIdPrefix(java.lang.String)' has been added

com.webmethods.rtl.event.DeliveryService: Method 'public void setClusterId(java.lang.String)' has been added

com.webmethods.rtl.event.DeliveryService: Method 'public void startRemoteDelivery()' has been added

com.webmethods.rtl.event.DeliveryService: Method 'public void stopRemoteDelivery()' has been added

com.webmethods.rtl.event.Event: Method 'public java.lang.String getJcrSessionUserData()' has been added

com.webmethods.rtl.event.IEvent: Method 'public java.lang.String getJcrSessionUserData()' has been added to an interface

com.webmethods.rtl.jms.PortalClientOverJMS: Class com.webmethods.rtl.jms.PortalClientOverJMS added

com.webmethods.rtl.logging.EnhancedPatternLayout: Class
com.webmethods.rtl.logging.EnhancedPatternLayout added

com.webmethods.rtl.msg.jms.IJMSProvider: Method 'public java.lang.String getEndpointAddress()' has been added to an interface

Added API	Description
com.webmethods.rtl.msg.jms.IJMSProvider: Method 'public boolean isConnected()' has been added to an interface	
com.webmethods.rtl.msg.jms.JMSProvider: Added protected field m_endpointAddress	
com.webmethods.rtl.msg.jms.JMSProvider: Added protected field m_isConnected	
com.webmethods.rtl.msg.jms.JMSProvider: Method 'public java.lang.String getEndpointAddress()' has been added	
com.webmethods.rtl.msg.jms.JMSProvider: Method 'public boolean isConnected()' has been added	
com.webmethods.rtl.msg.jms.JMSProvider: Abstract method 'protected void stopConnections()' has been added	
com.webmethods.rtl.msg.jms.JMSStdConnProvider: Method 'protected void stopConnections()' has been added	
com.webmethods.rtl.script.JspC: Method 'public java.lang.String getExcludes()' has been added	
com.webmethods.rtl.script.JspC: Method 'public void setExcludes(java.lang.String)' has been added	
com.webmethods.rtl.util.xml.XMLUtil: Method 'protected org.w3c.dom.Document _loadDocumentUncaught(org.xml.sax.InputSource)' has been added	
com.webmethods.rtl.util.xml.XMLUtil: Method 'public org.w3c.dom.Document loadDocumentFromInputStreamUncaught(java.io.InputStream)' has been added	
com.webmethods.rtl.util.xml.XMLUtil: Method 'public org.w3c.dom.Document loadDocumentFromReaderUncaught(java.io.Reader)' has been added	
com.webmethods.rtl.util.xml.XMLUtil: Method 'public org.w3c.dom.Document loadDocumentFromXMLUncaught(java.lang.String)' has been added	
com.webmethods.rtl.util.xml.XMLUtil: Method 'public org.w3c.dom.Document loadDocumentUncaught(java.lang.String)' has been added	

Removed API	Replacement, if any
com.webmethods.caf.jcr.rmi.IRMITunnelHttpPortAware: Class com.webmethods.caf.jcr.rmi.IRMITunnelHttpPortAware removed	
com.webmethods.caf.jcr.rmi.JcrRMIHttpToCGISocketFactory: Class com.webmethods.caf.jcr.rmi.JcrRMIHttpToCGISocketFactory removed	
com.webmethods.caf.jcr.rmi.JcrRMIMasterSocketFactory: Class com.webmethods.caf.jcr.rmi.JcrRMIMasterSocketFactory removed	
com.webmethods.jackrabbit.server.io.DefaultHandler: Class com.webmethods.jackrabbit.server.io.DefaultHandler removed	

Removed API	Replacement, if any
com.webmethods.jackrabbit.servlet.JCRWebdavServerServlet: Class com.webmethods.jackrabbit.servlet.JCRWebdavServerServlet removed	
com.webmethods.jackrabbit.servlet.SimpleWebdavServlet: Class com.webmethods.jackrabbit.servlet.SimpleWebdavServlet removed	
com.webmethods.portal.jms.um.UmJMSClient: Field DEFAULT_UM_REALM has been removed, but it was previously a constant	
com.webmethods.portal.jms.um.UmJMSClient: Method 'public void init()' has been removed	
com.webmethods.portal.schema.bcgadget.GadgetDefinition: Removed field gadgetExternalScripts	
com.webmethods.portal.schema.bcgadget.GadgetDefinition: Method 'public com.webmethods.portal.schema.bcgadget.GadgetDefinition$GadgetExternalScripts getGadgetExternalScripts()' has been removed	
com.webmethods.portal.schema.bcgadget.GadgetDefinition: Method 'public void setGadgetExternalScripts(com.webmethods.portal.schema.bcgadget.GadgetDefinition$GadgetExternalScripts)' has been removed	
com.webmethods.portal.schema.bcgadget.GadgetDefinition$GadgetExternalScripts: Class com.webmethods.portal.schema.bcgadget.GadgetDefinition$GadgetExternalScripts removed	
com.webmethods.portal.schema.bcgadget.ObjectFactory: Method 'public com.webmethods.portal.schema.bcgadget.GadgetDefinition$GadgetExternalScripts createGadgetDefinitionGadgetExternalScripts()' has been removed	
com.webmethods.portal.service.access.impl.GadgetsAclManager: Method 'protected java.lang.String buildXPathQuery(java.util.Map)' has been removed, but an inherited definition exists.	
com.webmethods.portal.service.access.impl.GadgetsAclManager$GadgetAclResource: Method 'public GadgetsAclManager$GadgetAclResource(javax.jcr.Node, java.lang.String)' has been removed	
com.webmethods.rtl.msg.jms.JMSProvider: Method 'public void enableMessageDelivery()' has been removed	
com.webmethods.rtl.msg.jms.JMSProvider: Method 'public boolean hasInitialized()' has been removed	
com.webmethods.rtl.msg.jms.JMSProvider: Method 'protected void setInstance(com.webmethods.rtl.msg.jms.JMSProvider)' has been removed	
com.webmethods.rtl.msg.jms.JMSProvider: Method 'protected void startConnections()' has been removed	
com.webmethods.rtl.msg.jms.JMSStdConnProvider: Method 'protected void startConnections()' has been removed	

Changed API	Description

com.webmethods.caf.common.bnd.PortletXmlAnalyzer: Parameter 1 of 'public boolean analyzeJar(aQute.lib.osgi.Analyzer)' has changed its type to aQute.bnd.osgi.Analyzer

com.webmethods.caf.common.bnd.WebXmlAnalyzer: Parameter 1 of 'public boolean analyzeJar(aQute.lib.osgi.Analyzer)' has changed its type to aQute.bnd.osgi.Analyzer

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Parameter 2 of 'public void displayAssertion(java.io.PrintWriter, org.opensaml.SAMLAssertion)' has changed its type to org.opensaml.saml1.core.Assertion

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Parameter 1 of 'public java.lang.String getLoginName(org.opensaml.SAMLAssertion)' has changed its type to org.opensaml.saml1.core.Assertion

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Return type of method 'public org.opensaml.SAMLAssertion getSamlAssertion(java.lang.String, java.lang.String)' has been changed to org.opensaml.saml1.core.Assertion

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Parameter 1 of 'public org.opensaml.SAMLAssertion getSamlAssertion(org.opensaml.SAMLResponse)' has changed its type to org.opensaml.saml1.core.Response

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Return type of method 'public org.opensaml.SAMLAssertion getSamlAssertion(org.opensaml.SAMLResponse)' has been changed to org.opensaml.saml1.core.Assertion

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Return type of method 'public org.opensaml.SAMLResponse getSamlResponse(java.lang.String, java.lang.String)' has been changed to org.opensaml.saml1.core.Response

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Parameter 1 of 'public java.lang.String verifyAssertion(org.opensaml.SAMLAssertion)' has changed its type to org.opensaml.saml1.core.Assertion

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public UmJMSClient()' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void closeUMSession(com.pcbsys.nirvana.client.nSession)' has been decreased from public to private

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void createConnectionFactory(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Return type of method 'public javax.naming.Context createJNDIContext()' has been changed to void

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public javax.naming.Context createJNDIContext()' has been decreased from public to private

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void

Changed API	Description

createQueue(java.lang.String, boolean, int)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void createQueueConnectionFactory(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void createStringVal(java.lang.String, java.lang.String)' has been decreased from public to package

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void createTopic(java.lang.String, boolean, int)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void createTopicConnectionFactory(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void createXAConnectionFactory(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void deleteConnectionFactory(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void deleteQueue(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void deleteQueueConnectionFactory(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void deleteTopic(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void deleteTopicConnectionFactory(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public javax.naming.Context getJNDIContext()' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public com.pcbsys.nirvana.client.nSession getUMSession()' has been decreased from public to private

com.webmethods.portal.service.bcgadget.IBCGadgetProvider: Return type of method 'public java.util.List getAccessibleGadgets(com.webmethods.portal.service.meta2.thing.IThingID)' has been changed to java.util.Map

com.webmethods.portal.service.bcgadget.impl.BCGadgetProvider: Return type of method 'public java.util.List getAccessibleGadgets(com.webmethods.portal.service.meta2.thing.IThingID)' has been changed to java.util.Map

com.webmethods.portal.service.task.impl.TaskLockingService: Accessibility of field TASK_LOCK_MAX_TIME has been increased from private to public

com.webmethods.portal.service.task.impl.TaskLockingService: Accessibility of field TASK_LOCK_MAX_WAIT_TIME has been increased from private to public

Changed API	Description

com.webmethods.portal.service.task.impl.TaskLockingService: In method 'protected

com.webmethods.portal.service.task.ITaskLock createDbLock(com.webmethods.portal.service.sql.ISqlWorker, com.webmethods.portal.service.meta2.thing.IThingID, java.util.Date, java.util.Date)' the number of arguments has changed

com.webmethods.portal.system.PortalSystem: Accessibility of method 'private void initGuestUser()' has been increased from private to public

com.webmethods.rtl.msg.jms.JMSProvider: Accessibility of method 'public void onShutdown()' has been decreased from public to protected

com.webmethods.rtl.msg.jms.JMSProvider: Accessibility of method 'private void setMaintenanceMode(boolean)' has been increased from private to protected

com.webmethods.rtl.msg.jms.JMSStdConnProvider: Accessibility of method 'public JMSStdConnProvider()' has been decreased from public to protected

com.webmethods.portal.service.version.impl.dcvs.DCVersionService: Value of compile-time constant VERSION_SERVICES_ROOT has been changed

Release 9.10

com.webmethods.portal.bizPolicy.biz.access.IAccessPolicy: Method 'public com.webmethods.portal.service.view.IListView listSecurityRealmObjects(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.service.meta2.thing.IThingID)' has been added to an interface

com.webmethods.portal.mech.subscription.ISubscribableMechanics: Method 'public void checkViewSubscription(com.webmethods.portal.system.IURI, com.webmethods.portal.service.meta2.thing.IThingID, java.util.Map, com.webmethods.portal.service.meta2.thing.IThingID)' has been added to an interface

com.webmethods.portal.bizPolicy.biz.IBizPolicyResolver: Method 'public com.webmethods.portal.bizPolicy.biz.IBizPolicy getBizPolicyByType(java.lang.String, java.util.Map)' has been added to an interface

com.webmethods.caf.wsclient.saml.IArtifactFactory: Method 'public java.lang.String getAssertion(java.lang.String, java.lang.String[], java.util.Map)' has been added to an interface

com.webmethods.caf.wsclient.saml.IArtifactFactory: Method 'public java.lang.String getAssertion(java.lang.String, java.lang.String[], java.util.Map, java.util.Map)' has been added to an interface

com.webmethods.caf.wsclient.session.IWSClientSession: Method 'public java.util.Map getSessionCookieMap()' has been added to an interface

com.webmethods.caf.wsclient.session.IWSClientSession: Method 'public void setSessionCookieMap(java.util.Map)' has been added to an interface

com.webmethods.caf.wsclient.session.IWSClientSessionManager: Method 'public com.webmethods.caf.wsclient.session.IWSClientSessionPool getSessionPool(com.webmethods.caf.wsclient.proxy.IWSClientProxy, java.lang.String)' has been added to an interface

com.webmethods.caf.faces.data.task.ITaskInfo: Method 'public java.util.Date getTaskScheduleDate()' has been added to an interface

com.webmethods.caf.faces.data.task.ITaskInfo: Method 'public void setCreatedDate(java.util.Date)' has been added to an interface

com.webmethods.caf.faces.data.task.ITaskInfo: Method 'public void setTaskScheduleDate(java.util.Date)' has been added to an interface

com.webmethods.portal.service.task.ITask: Method 'public java.util.Date getTaskScheduleDate()' has been added to an interface

Changed API/ Description

com.webmethods.portal.event.system.ICriterionEvent$IListener: Parameter 1 of 'public void onEvent(com.webmethods.portal.event.system.ISubscriptionEvent)' has changed its type to com.webmethods.portal.event.system.ICriterionEvent

com.webmethods.portal.event.system.ICriterionEvent$ISynchronousListener: Parameter 1 of 'public void onSynchronousEvent(com.webmethods.portal.event.system.ISubscriptionEvent)' has changed its type to com.webmethods.portal.event.system.ICriterionEvent

com.webmethods.portal.service.access.impl.MwsObjectAclManager: In method 'protected int countAceProperties(java.util.List)' the number of arguments has changed

com.webmethods.caf.wsclient.session.impl.WSClientSessionManager: Parameter 2 of 'protected java.lang.String getSessionPoolID(com.webmethods.caf.wsclient.proxy.IWSClientProxy, com.webmethods.caf.wsclient.AuthCredentials)' has changed its type to java.lang.String

Removed API/ Description

com.webmethods.portal.mech.system.ISystemMechanics: Removed com.webmethods.portal.mech.access.IAccessMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.ISystemMechanics: Removed com.webmethods.portal.mech.clipboard.IClipboardMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.ISystemMechanics: Removed com.webmethods.portal.mech.storage.IBasicMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.ISystemMechanics: Removed com.webmethods.portal.mech.subscription.ISubscribableMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.ISystemMechanics: Removed com.webmethods.portal.mech.view.IViewableMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed com.webmethods.portal.mech.access.IAccessMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed com.webmethods.portal.mech.clipboard.IClipboardMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed com.webmethods.portal.mech.storage.IBasicMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed com.webmethods.portal.mech.subscription.ISubscribableMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed com.webmethods.portal.mech.view.IViewableMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed
com.webmethods.portal.mech.clipboard.impl.ClipboardMechanics from the list of superclasses

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed
com.webmethods.portal.mech.storage.impl.BasicMechanics from the list of superclasses

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed
com.webmethods.portal.mech.subscription.impl.SubscribableMechanics from the list of superclasses

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed
com.webmethods.portal.mech.view.impl.ViewableMechanics from the list of superclasses

com.webmethods.portal.webapp.jetty7.WebApplicationInstallService: Removed field
COMPONENT_DELETE_RETRIES

com.webmethods.portal.service.global.impl.LanguagePackManager: Field QUERY_STRING has been
removed, but it was previously a constant

com.webmethods.caf.faces.convert.FormattedDateTimeConverter: Method 'protected
java.text.DateFormat setupGMTDateTimeFormater(javax.faces.context.FacesContext)' has been
removed

com.webmethods.portal.mech.socialbpm.comments.ICommentsMechanics: Method 'public
java.util.List getTaskCommentsByProcessModelId(java.lang.String, int, int, int)' has been added to an
interface

com.webmethods.portal.service.socialbpm.comments.ICommentsService: Method 'public java.util.List
getPaginatedTaskCommentsByProcessModelId(java.lang.String, int, int, int)' has been added to an
interface

com.webmethods.portal.service.dir.IRoleSystem: Method 'public void
clearCache(com.webmethods.portal.service.dir.IDirPrincipal)' has been added to an interface

com.webmethods.portal.mech.dir.IPrincipalMechanics: Method 'public void
fireRoleMembershipEvent(com.webmethods.portal.service.meta2.thing.IThingID,
com.webmethods.portal.system.IURI, com.webmethods.portal.service.dir.IDirPrincipalList,
com.webmethods.portal.service.dir.IDirPrincipalList, int)' has been added to an interface

move the com.webmethods.jms.** packages from caf-server bundle to a unique package name

com.webmethods.jms.JMSPhaseProvider: Class com.webmethods.jms.JMSPhaseProvider removed

com.webmethods.jms.db.DbJMSClient: Class com.webmethods.jms.db.DbJMSClient removed

com.webmethods.jms.db.DbJMSConnProvider: Class com.webmethods.jms.db.DbJMSConnProvider
removed

com.webmethods.jms.db.impl.JMSConnection: Class com.webmethods.jms.db.impl.JMSConnection
removed

com.webmethods.jms.db.impl.JMSConnection$CompressedObject: Class
com.webmethods.jms.db.impl.JMSConnection$CompressedObject removed

com.webmethods.jms.db.impl.JMSDestination: Class com.webmethods.jms.db.impl.JMSDestination removed

com.webmethods.jms.db.impl.JMSDispatcherThread: Class com.webmethods.jms.db.impl.JMSDispatcherThread removed

com.webmethods.jms.db.impl.JMSEvent: Class com.webmethods.jms.db.impl.JMSEvent removed

com.webmethods.jms.db.impl.JMSMessage: Class com.webmethods.jms.db.impl.JMSMessage removed

com.webmethods.jms.db.impl.JMSMessageConsumer: Class com.webmethods.jms.db.impl.JMSMessageConsumer removed

com.webmethods.jms.db.impl.JMSMessageProducer: Class com.webmethods.jms.db.impl.JMSMessageProducer removed

com.webmethods.jms.db.impl.JMSObjectMessage: Class com.webmethods.jms.db.impl.JMSObjectMessage removed

com.webmethods.jms.db.impl.JMSPollThread: Class com.webmethods.jms.db.impl.JMSPollThread removed

com.webmethods.jms.db.impl.JMSQueue: Class com.webmethods.jms.db.impl.JMSQueue removed

com.webmethods.jms.db.impl.JMSQueuePollThread: Class com.webmethods.jms.db.impl.JMSQueuePollThread removed

com.webmethods.jms.db.impl.JMSQueueReceiver: Class com.webmethods.jms.db.impl.JMSQueueReceiver removed

com.webmethods.jms.db.impl.JMSQueueSender: Class com.webmethods.jms.db.impl.JMSQueueSender removed

com.webmethods.jms.db.impl.JMSQueueSession: Class com.webmethods.jms.db.impl.JMSQueueSession removed

com.webmethods.jms.db.impl.JMSSession: Class com.webmethods.jms.db.impl.JMSSession removed

com.webmethods.jms.db.impl.JMSTopic: Class com.webmethods.jms.db.impl.JMSTopic removed

com.webmethods.jms.db.impl.JMSTopicBatchMessage: Class com.webmethods.jms.db.impl.JMSTopicBatchMessage removed

com.webmethods.jms.db.impl.JMSTopicPublisher: Class com.webmethods.jms.db.impl.JMSTopicPublisher removed

com.webmethods.jms.db.impl.JMSTopicSession: Class com.webmethods.jms.db.impl.JMSTopicSession removed

com.webmethods.jms.db.impl.JMSTopicSubscriber: Class com.webmethods.jms.db.impl.JMSTopicSubscriber removed

com.webmethods.jms.db.impl.QueueFactory: Class com.webmethods.jms.db.impl.QueueFactory removed

com.webmethods.jms.db.impl.TopicFactory: Class com.webmethods.jms.db.impl.TopicFactory removed

com.webmethods.jms.db.impl.db2.EventDelivered: Class com.webmethods.jms.db.impl.db2.EventDelivered removed

com.webmethods.jms.db.impl.db2.EventPoll: Class com.webmethods.jms.db.impl.db2.EventPoll removed

com.webmethods.jms.db.impl.db2.EventSave: Class com.webmethods.jms.db.impl.db2.EventSave removed

com.webmethods.jms.db.impl.db2.GetSqlTime: Class com.webmethods.jms.db.impl.db2.GetSqlTime removed

com.webmethods.jms.db.impl.db2.PublishQueue: Class com.webmethods.jms.db.impl.db2.PublishQueue removed

com.webmethods.jms.db.impl.db2.PurgeEvents: Class com.webmethods.jms.db.impl.db2.PurgeEvents removed

com.webmethods.jms.db.impl.db2.PurgeInactiveSubscriptions: Class com.webmethods.jms.db.impl.db2.PurgeInactiveSubscriptions removed

com.webmethods.jms.db.impl.db2.RegisterDestination: Class com.webmethods.jms.db.impl.db2.RegisterDestination removed

com.webmethods.jms.db.impl.db2.RegisterSubscription: Class com.webmethods.jms.db.impl.db2.RegisterSubscription removed

com.webmethods.jms.db.impl.db2.UnregisterSubscription: Class com.webmethods.jms.db.impl.db2.UnregisterSubscription removed

com.webmethods.jms.db.impl.db2.UpdateSubscriptions: Class com.webmethods.jms.db.impl.db2.UpdateSubscriptions removed

com.webmethods.jms.db.impl.mssql.EventDelivered: Class com.webmethods.jms.db.impl.mssql.EventDelivered removed

com.webmethods.jms.db.impl.mssql.EventPoll: Class com.webmethods.jms.db.impl.mssql.EventPoll removed

com.webmethods.jms.db.impl.mssql.EventSave: Class com.webmethods.jms.db.impl.mssql.EventSave removed

com.webmethods.jms.db.impl.mssql.GetSqlTime: Class com.webmethods.jms.db.impl.mssql.GetSqlTime removed

com.webmethods.jms.db.impl.mssql.PublishQueue: Class com.webmethods.jms.db.impl.mssql.PublishQueue removed

com.webmethods.jms.db.impl.mssql.PurgeEvents: Class com.webmethods.jms.db.impl.mssql.PurgeEvents removed

com.webmethods.jms.db.impl.mssql.PurgeInactiveSubscriptions: Class
com.webmethods.jms.db.impl.mssql.PurgeInactiveSubscriptions removed

com.webmethods.jms.db.impl.mssql.RegisterDestination: Class
com.webmethods.jms.db.impl.mssql.RegisterDestination removed

com.webmethods.jms.db.impl.mssql.RegisterSubscription: Class
com.webmethods.jms.db.impl.mssql.RegisterSubscription removed

com.webmethods.jms.db.impl.mssql.UnregisterSubscription: Class
com.webmethods.jms.db.impl.mssql.UnregisterSubscription removed

com.webmethods.jms.db.impl.mssql.UpdateSubscriptions: Class
com.webmethods.jms.db.impl.mssql.UpdateSubscriptions removed

com.webmethods.jms.db.impl.mysql.EventDelivered: Class
com.webmethods.jms.db.impl.mysql.EventDelivered removed

com.webmethods.jms.db.impl.mysql.EventPoll: Class com.webmethods.jms.db.impl.mysql.EventPoll
removed

com.webmethods.jms.db.impl.mysql.EventSave: Class com.webmethods.jms.db.impl.mysql.EventSave
removed

com.webmethods.jms.db.impl.mysql.GetSqlTime: Class
com.webmethods.jms.db.impl.mysql.GetSqlTime removed

com.webmethods.jms.db.impl.mysql.PublishQueue: Class
com.webmethods.jms.db.impl.mysql.PublishQueue removed

com.webmethods.jms.db.impl.mysql.PurgeEvents: Class
com.webmethods.jms.db.impl.mysql.PurgeEvents removed

com.webmethods.jms.db.impl.mysql.PurgeInactiveSubscriptions: Class
com.webmethods.jms.db.impl.mysql.PurgeInactiveSubscriptions removed

com.webmethods.jms.db.impl.mysql.RegisterDestination: Class
com.webmethods.jms.db.impl.mysql.RegisterDestination removed

com.webmethods.jms.db.impl.mysql.RegisterSubscription: Class
com.webmethods.jms.db.impl.mysql.RegisterSubscription removed

com.webmethods.jms.db.impl.mysql.UnregisterSubscription: Class
com.webmethods.jms.db.impl.mysql.UnregisterSubscription removed

com.webmethods.jms.db.impl.mysql.UpdateSubscriptions: Class
com.webmethods.jms.db.impl.mysql.UpdateSubscriptions removed

com.webmethods.jms.db.impl.oracle.EventDelivered: Class
com.webmethods.jms.db.impl.oracle.EventDelivered removed

com.webmethods.jms.db.impl.oracle.EventPoll: Class com.webmethods.jms.db.impl.oracle.EventPoll
removed

com.webmethods.jms.db.impl.oracle.EventSave: Class com.webmethods.jms.db.impl.oracle.EventSave removed

com.webmethods.jms.db.impl.oracle.GetSqlTime: Class com.webmethods.jms.db.impl.oracle.GetSqlTime removed

com.webmethods.jms.db.impl.oracle.PublishQueue: Class com.webmethods.jms.db.impl.oracle.PublishQueue removed

com.webmethods.jms.db.impl.oracle.PurgeEvents: Class com.webmethods.jms.db.impl.oracle.PurgeEvents removed

com.webmethods.jms.db.impl.oracle.PurgeInactiveSubscriptions: Class com.webmethods.jms.db.impl.oracle.PurgeInactiveSubscriptions removed

com.webmethods.jms.db.impl.oracle.RegisterDestination: Class com.webmethods.jms.db.impl.oracle.RegisterDestination removed

com.webmethods.jms.db.impl.oracle.RegisterSubscription: Class com.webmethods.jms.db.impl.oracle.RegisterSubscription removed

com.webmethods.jms.db.impl.oracle.UnregisterSubscription: Class com.webmethods.jms.db.impl.oracle.UnregisterSubscription removed

com.webmethods.jms.db.impl.oracle.UpdateSubscriptions: Class com.webmethods.jms.db.impl.oracle.UpdateSubscriptions removed

com.webmethods.jms.db.impl.sybase.EventPoll: Class com.webmethods.jms.db.impl.sybase.EventPoll removed

com.webmethods.jms.db.impl.sybase.PublishQueue: Class com.webmethods.jms.db.impl.sybase.PublishQueue removed

com.webmethods.jms.db.impl.sybase.PurgeEvents: Class com.webmethods.jms.db.impl.sybase.PurgeEvents removed

com.webmethods.jms.um.UmJMSClient: Class com.webmethods.jms.um.UmJMSClient removed

com.webmethods.jms.um.UmJMSConnProvider: Class com.webmethods.jms.um.UmJMSConnProvider removed

electric.util.holder.ArrayOfbyteInOut: Class electric.util.holder.ArrayOfbyteInOut removed

electric.util.holder.ArrayOfbyteOut: Class electric.util.holder.ArrayOfbyteOut removed

com.webmethods.portal.bizPolicy.command.system.xml.XMLImport: Field OVERWRITE_PERMISSIONS_KEY has been removed, but it was previously a constant

com.webmethods.portal.service.dir.IDirService: Method 'public boolean supportsNestedGroups()' has been added to an interface

com.webmethods.caf.faces.application.CAFStateManager: Class com.webmethods.caf.faces.application.CAFStateManager removed

com.webmethods.caf.faces.application.CAFStateManager$TreeStructure: Class
com.webmethods.caf.faces.application.CAFStateManager$TreeStructure removed

com.webmethods.caf.faces.portlet.PortletViewFragmentPhaseListener: Class
com.webmethods.caf.faces.portlet.PortletViewFragmentPhaseListener removed

com.webmethods.caf.faces.portlet.PortletViewFragmentPhaseListenerWrapper: Class
com.webmethods.caf.faces.portlet.PortletViewFragmentPhaseListenerWrapper removed

com.webmethods.caf.faces.portlet.PortletViewHandler: Method 'protected void
initResponse(javax.faces.context.FacesContext, javax.faces.component.UIViewRoot)' has been removed

com.webmethods.caf.faces.portlet.PortletViewHandler: Method 'protected void
renderResponse(javax.faces.context.FacesContext, javax.faces.component.UIViewRoot)' has been
removed

com.webmethods.caf.faces.render.html.command.CommandFormRenderer: In method 'protected
java.lang.String getTagName()' the number of arguments has changed

com.webmethods.caf.faces.render.html.command.DisjointFormRenderer: In method 'protected
java.lang.String getTagName()' the number of arguments has changed

com.webmethods.caf.faces.view.BaseViewHandler: Field STATE_KEY has been removed, but it was
previously a constant

com.webmethods.caf.faces.view.BaseViewHandler: Method 'protected void
initResponse(javax.faces.context.FacesContext, javax.faces.component.UIViewRoot)' has been removed

com.webmethods.caf.faces.view.BaseViewHandler: Method 'protected void
renderResponse(javax.faces.context.FacesContext, javax.faces.component.UIViewRoot)' has been
removed

com.webmethods.caf.faces.view.CafViewDeclarationLanguage: Field INJECT_STATE has been
removed, but it was previously a constant

com.webmethods.caf.faces.view.CafViewDeclarationLanguage: Field NO_RENDER has been removed,
but it was previously a constant

com.webmethods.caf.faces.view.CafViewDeclarationLanguage: Field STATE_KEY has been removed,
but it was previously a constant

com.webmethods.caf.faces.view.CafViewDeclarationLanguage: Field VIEW_FRAGMENT has been
removed, but it was previously a constant

com.webmethods.caf.faces.view.CafViewDeclarationLanguage: Field VIEW_FRAGMENT_CLIENT_ID
has been removed, but it was previously a constant

com.webmethods.caf.faces.view.CafViewDeclarationLanguage: Return type of method 'protected void
initResponse(javax.faces.context.FacesContext, javax.faces.component.UIViewRoot)' has been changed
to javax.faces.context.ResponseWriter

com.webmethods.caf.faces.view.CafViewDeclarationLanguage: Method 'protected void renderResponse(javax.faces.context.FacesContext, javax.faces.component.UIViewRoot)' has been removed

com.webmethods.caf.faces.view.ViewFragmentPhaseListener: Class com.webmethods.caf.faces.view.ViewFragmentPhaseListener removed

10.0 Copyright Information

11.0 Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the TECHcommunity website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

CAF-RM-1011-20211015

webMethods Database Component Configurator 10.11 Readme

October 2021

This file contains important information you must read before using webMethods Database Component Configurator 10.11. You can find system requirements, user documentation, and installation and upgrade instructions on the [Documentation website](#) or the [Tech Community website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0 Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

None

2.0 Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

None

3.0 Usage Notes

This section provides any additional information you need to work with the current release of this product.

None

4.0 Fixes Included in Each Release

This section lists the *latest fix level* that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Release 10.11

- DC_10.7_DCC_FIX1
- DC_10.3_DBS_Fix18
- DC_10.3_EmbeddedDB_Fix18
- DC_10.3_DCC_Fix8
- DC_10.1_DBS_Fix17
- DC_10.1_EmbeddedDB_Fix17

Release 10.7

- DC_10.5_DCC_Fix6
- DC_10.3_DBS_Fix13

- DC_10.3_EmbeddedDB_Fix13

- DC_10.3_DCC_Fix7

- DC_10.1_DCC_Fix3

- DC_10.1_DBS_Fix16

- DC_10.1_EmbeddedDB_Fix16

- DC_9.12_DBS_Fix22

- DC_9.12_EmbeddedDB_Fix22

- DC_9.10_DBS_Fix12

Release 10.5

- DC_10.3_DBS_Fix5
- DC_10.1_DBS_Fix12
- DC_9.12_DBS_Fix19
- DC_9.12_EmbeddedDB_Fix19
- DC_9.12_DBS_Fix16

Release 10.4

- DC_10.3_DCC_Fix1
- DC_10.3_DBS_Fix3
- DC_10.1_DCC_Fix1
- DC_10.1_DBS_Fix10
- DC_9.12_DBS_Fix15
- DC_9.10_DBS_Fix11
- DC_9.9_DBS_Fix13
- DC_9.7_DBS_Fix18

Release 10.3

- DC_10.1_DBS_Fix7
- DC_9.12_DBS_Fix12
- DC_9.10_DBS_Fix10
- DC_9.8_DBS_Fix15
- DC_9.7_DBS_Fix16

Release 10.2

- DC_10.1_DBS_Fix6
- DC_9.12_DBS_Fix8
- DC_9.10_DBS_Fix9
- DC_9.9_DBS_Fix12
- DC_9.8_DBS_Fix14

Release 10.1

- DC_10.0_DBS_Fix2
- DC_9.12_DBS_Fix6
- DC_9.10_DBS_Fix7
- DC_9.9_DBS_Fix10
- DC_9.8_DBS_Fix12
- DC_9.7_DBS_Fix14

Release 10.0

- DC_9.9_DBS_Fix7
- DC_9.8_DBS_Fix11
- DC_9.7_DBS_Fix12
- DC_9.6_DBS_Fix13

Release 9.12

- DC_9.9_DBS_Fix5
- DC_9.8_DBS_Fix8
- DC_9.7_DBS_Fix10
- DC_9.6_DBS_Fix11

Release 9.10

- DC_9.9_DBS_Fix3
- DC_9.8_DBS_Fix6
- DC_9.7_DBS_Fix8

- DC_9.6_DBS_Fix9

5.0   Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Release 10.11

- WDA-1742
  Added support for ReAuthenticateUser to reauthenticate and reauthorize the user for DBC using Kerberos authenticated database.

- WPE-4830
  With webMethods Process Engine, deadlock errors occurred.
  With MySQL database, storage cleaner procedure caused deadlocks in database.
  The issue is resolved.

- OBE-11884
  In the Define Environments page of Optimize, you cannot delete an environment that uses a PostgreSQL database. Also, when you open the Edit Environment page of such an environment, you cannot use the Map All function more than once.
  The issue is resolved.

- OTN-21863
  When TN nodes in the cluster are restarted simultaneously, there are multiple cluster notifications between nodes to refresh document types that caused the *ORA-01555 Snapshot Too Old* error.
  The issue is resolved by increasing the PCTVersion value on the TypeData column of the BizDocTypeDef table.

- PIE-56872
  A java.sql.SQLSyntaxErrorException exception occurred during OAuth initialization after migrating to Integration Server 10.3. This issue occurred as some migration paths do not add the SCOPE_DESCRIPTION column to the IS_OAUTH_SCOPE table.
  The issue is resolved, and the fix adds the SCOPE_DESCRIPTION column to the IS_OAUTH_SCOPE table.

- WDA-1777 (DC_10.3_DCC_Fix8)
  The error *java.lang.NumberFormatException: For input string: "XRF"* appears during database migration from 912 - V103.
  The issue is resolved.

- WDA-1727
  Space between product code issue fixed for command central.

- WPE-4542
  With webMethods Process Engine, the storage cleaner encountered a deadlock.
  The issue is resolved.

- WMN-7185
  With webMethods Monitor, services took a longer time to retrieve data. This issue occurred because the SQL query used by the pub.monitor.process.instance:getInstanceList service tool a longer time. The issue is resolved by migrating the Process Audit database component to version 81.5.

Release 10.7

- WDA-1469
  The *Error: Could not find or load main class com.softwareag.dcc.gui.Main* message appears when you try to start the DCC GUI. When you try to start the DCC GUI by running the dbConfiguratorUI script, you receive the error *Error: Could not find or load main class com.softwareag.dcc.gui.Main*.
  The issue is resolved.

Release 10.3

- PIE-52250
  Migration fails on Common DB Configurator.
  Migration fails on Common DB Configurator due to changes introduced in the DB script for an earlier version of Integration Server as part of PIE-52084.
  The issue is resolved.

- OBE-10316
  When you use webMethods Database Component Configurator to migrate the CentralConfiguration component from version 9.12 to the latest version, an error occurs and the migration fails.
  The issue is resolved.

- OBE-10432
  After migrating Optimize, the schema objects of the BAM_DIM_JOIN_TMP table might be different from the schema objects after a fresh installation. The issue occurs for Optimize environments that are configured to use a MySQL database.
  The issue is resolved.

- OTN-18293
  There was a performance degradation when an update was made to a Trading Partner Agreement that was in use. With this fix, the partner table is optimized by including a Database index.
  The issue is resolved.

- OTN-18452
  When using MySQL as an external database, importing a client certificate fails with an expiry date beyond 2038-01-19 UTC. This is because the datatype "Timestamp" associated with the MySQL table column of certificate expiry has an upper limit set to 2038-01-19 UTC. The issue is now resolved because the datatype for the column is changed to "DateTime" which has an upper expiry limit of year 9999.
  The issue is resolved.

Release 10.1

- WDA-1031
  Command Central bootstrapper installs Database Configurator 10.0 but the program group item displays 9.12.
  The issue is resolved.

- WDA-1026
  Desktop shortcut incorrectly displays the version as Database Component Configurator 9.12.
  The issue is resolved.

- WDA-979
  DCC 10.0 displays incorrect copyright year and version in the console.
  The issue is resolved.

- WDA-918
  In the Database Component Configurator, when a product is selected and then the mouse cursor is pointed to the radio button component, the selection is set back to "All". Moving the mouse cursor without clicking the button should not change the selection.
  The issue is resolved.

- WDA-976
  Database Component Configurator version shows 9.12 instead of 10.0 in the Windows Start menu.
  The issue is resolved.

- WDA-844
  Incorrect Copyright year in the DCC "About" window.
  The Copyright year in the DCC "About" window shows 2006 – 2015. It should be 2006 – 2016.
  The issue is resolved.

Release 9.12

- WDA-844
  Incorrect Copyright year in the DCC "About" window.
  The Copyright year in the DCC "About" window shows 2006 – 2015. It should be 2006 – 2016.
  The issue is resolved.

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

None

7.0   Terminology Changes

A release is listed in this section only if changes occurred in that release.

None

8.0   Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 10.5

Added Item	Description
Graphical user interface	The Database Component Configurator graphical user interface is reintroduced in this release.
Ability to export and import field values to .xml files by clicking Export or Import on the GUI or by specifying the -e|--export or -i|--import options on the command line	You can export and import field values to .xml files by using a user-created script that contains the command line parameters that are used by the dbConfigurator script. For example, for Linux, the command line parameters can be copied to a shell script, such as: % echo './bin/dbConfigurator.sh --component "ISI" --action "drop" --version latest --url "jdbc:wm:oracle://\<host>:\<port>;serviceName=\<name>" --user "\<user>" --password "\<password>" --admin_user "\<admin_user>" --admin_password "\<admin_password>" --dbms Oracle --dbname "\<name>" --tablespacedir "c:\\app\\test"' > run-isi-drop.sh % sh ./run-isi-drop.sh

Added Item	Description
	For example, for Windows, the command line parameters can be copied to a bat file, such as:
	c:\dir\>echo bin\dbConfigurator.bat --component "ISI" --action "drop" --version latest --url "jdbc:wm:oracle://<host>:<port>;serviceName=<name>" --user "<user>" --password "<password>" --admin_user "<admin_user>" --admin_password "<admin_password>" --dbms Oracle --dbname "<name>" --tablespacedir "c:\\app\\test" > run-isi-drop.bat c:\dir\>.\run-isi-drop.bat
	This approach is superior to the DCC import/export functionality, because you can store passwords in the shell script or bat file.

Release 10.4

Changed Item	Description
Reliability and performance improvements	Database Component Configurator is rewritten in this release to improve the reliability and performance. The configurator now supports only command line mode, and a graphical user interface is not available.

Release 10.1

Added Item	Description
Support for MySQL Community Edition	MySQL Community Edition is now supported with Database Component Configurator.

Changed Item	Description
Changed logging behavior	The logging behavior of Database Component Configurator has changed in this release. Now Database Component Configurator will generate only one log file named as *dcc.log*. Once the *dcc.log* file size crosses 10 MB, it will be renamed as *dcc.log.NUMBER*.

9.0　Copyright Information

10.0　Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the Tech Community website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

DCC-RM-1011-20211015

webMethods Deployer 10.11 and webMethods Asset Build Environment 10.11 Readme

October 2021

This file contains important information you must read before using webMethods Deployer 10.11 and webMethods Asset Build Environment 10.11. You can find system requirements, user documentation, and installation and upgrade instructions on the Documentation website or the Tech Community website. At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0 Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0 Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

3.0 Usage Notes

This section provides any additional information you need to work with the current release of this product.

Deployer

Important! webMethods Deployer 10.5 is the last general availability release of the product. We will not add new features in Deployer in the following release. We will notify you of what you should do to replace the Deployer functionality and what are the official end-of-life dates in a deprecation notice as soon as the deprecation comes into effect.

- Beginning with release version 10.5, runtime-based deployment is deprecated. Software AG recommends that you use the Asset Build Environment and repository-based deployment instead.

- Runtime-based deployment projects can deploy assets from 7.1 SP3 and later releases of webMethods runtimes. To accommodate deployment of assets from earlier releases, create source and target servers for specific versions of Deployer. Projects can include only sources and targets of the same version except for version 8.0 assets, which you can deploy to either 8.0 or 8.2 servers.

- Repository-based deployment projects support checkpoint and rollback for all runtimes except for webMethods Optimize.

- Repository-based deployment projects support deletion sets for all runtimes except for Optimize.

- Repository-based projects support configuration of project settings through the Project Automator.

- Deployer now supports using zip file as a source in SideBySide upgrade.

- If you are upgrading from an earlier release and you already have repository aliases, you must recreate the indexes of those repository aliases.

4.0 Fixes Included in Each Release

This section lists the *latest fix level* that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Deployer

Release 10.11

- DEP_10.7_Fix1
- DEP_10.5_Fix7
- DEP_10.3_Fix10
- DEP_10.1_Fix6
- DEP_9.12_Fix11

Release 10.7

- DEP_10.5_Fix4
- DEP_10.3_Fix5
- DEP_10.1_Fix5
- DEP_10.1_CCE_Fix1
- DEP_9.12_Fix10

Release 10.5

- DEP_10.3_CCE_Fix1
- DEP_9.10_Fix7

Release 10.4

- DEP_9.12_Fix6
- DEP_9.10_Fix6

Release 10.3

- DEP_10.1_Fix2
- DEP_9.12_Fix5

- DEP_9.10_Fix5

- DEP_9.8_Fix10

Release 10.2

- DEP_10.1_Fix1

- DEP_9.12_Fix4

- DEP_9.9_Fix7

- DEP_9.8_Fix9

- DEP_9.7_Fix9

- DEP_9.6_Fix10

- DEP_8.2_SP2_Fix21

Release 10.1

- DEP_9.12_Fix2

- DEP_9.10_Fix4

- DEP_9.9_Fix6

- DEP_9.8_Fix8

- DEP_9.5_SP1_Fix9

- DEP_8.2_SP2_Fix20

Release 10.0

- DEP_9.10_Fix2

- DEP_9.9_Fix4

- DEP_9.8_Fix6

- DEP_9.7_Fix8

- DEP_9.6_Fix9

- DEP_9.5_SP1_Fix8

- DEP_8.2_SP2_Fix19

Release 9.12

- DEP_9.10_Fix1

- DEP_9.9_Fix3

- DEP_9.8_Fix4

- DEP_9.7_Fix7

- DEP_9.6_Fix8

- DEP_9.0_SP1_Fix10

Release 9.10

- DEP_9.9_Fix1

- DEP_9.8_Fix3

- DEP_9.7_Fix5

- DEP_9.6_Fix6

- DEP_9.5_SP1_Fix7

- DEP_9.0_SP1_Fix9

Asset Build Environment

Release 10.11

- ABE_10.5_BPM_Fix2

- ABE_10.3_BPM_Fix2

- ABE_10.1_Fix7

Release 10.7

- ABE_10.5_Fix1

- ABE_10.5_BPM_Fix1

- ABE_10.4_Fix2

- ABE_10.3_Fix3

- ABE_10.3_BPM_Fix1

- ABE_10.1_Fix6

- ABE_9.12_Fix5

Release 10.5

- ABE_10.4_Fix1

- ABE_10.3_Fix2

Release 10.4

- ABE_10.1_Fix3

- ABE_9.12_Fix3

Release 10.3

- ABE_10.1_Fix2

- ABE_9.12_Fix2

- ABE_9.9_Fix5

Release 10.2

- ABE_10.1_Fix1

- ABE_9.12_Fix1

- ABE_9.10_Fix1

Release 10.1

- ABE_10.0_Fix2

- ABE_9.9_Fix4

- ABE_9.8_Fix4

Release 10.0

- ABE_9.9_Fix3

- ABE_9.6_Fix5

- ABE_9.5_SP1_Fix4

Release 9.12

- ABE_9.10_Fix1

- ABE_9.9_Fix1

- ABE_9.8_Fix3

- ABE_9.7_Fix4

Release 9.10

- ABE_9.8_Fix2

- ABE_9.7_Fix3

- ABE_9.5_SP1_Fix4

- ABE_9.0_SP1_Fix5

5.0 Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Release 10.3

- LJP-2016
  Deployer displays the asset ID of AgileApps assets instead of the asset name when checking for unresolved dependencies.
  When adding AgileApps package assets to a deployment set and checking for unresolved dependencies for the selected packages, Deployer displays the asset IDs instead of the asset names. This issue is resolved.

Release 10.0

- WMDPD-1067
  Deployer does not show process models as dependencies for associated event maps.
  When you include an event map that is associated with a process model in an Optimize deployment set, Deployer does not list the process model as a dependency. You therefore cannot resolve this dependency and include the process model in the deployment set.
  To resolve this issue, create and deploy a deployment set that includes the process model and then deploy the event map.

Release 9.10

- PIF-12248
  Cannot deploy JNDI assets from a source Universal Messaging server to a target Universal
  Messaging server using webMethods Deployer.
  This issue is resolved.

6.0   Documentation Changes

This section describes *significant* changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.5

The webMethods Deployer documentation has been re-organized and now includes *webMethods Deployer Help* (in HTML format) and *webMethods Deployer User's Guide* (in PDF format).

The topics about Command Central assets have been moved to the Command Central Help.

Release 10.4

The *webMethods Deployer User's Guide* includes the following topic about repository-based deployment:

- Deploying assets with dependencies using Platform Manager.

Release 10.3

The *webMethods Deployer User's Guide* contains information about:

- Deploying Task Engine assets.

- Generating, exporting, and building Command Central composite assets to deploy on Software AG run-time components running on premise.

- Defining environment variables for Platform Manager assets.

Release 10.1

The *webMethods Deployer User's Guide* contains information on deploying the following assets:

- API Gateway
- ActiveTransfer
- Digital Event Services
- CloudStreams

Release 9.12

▪ The *webMethods Deployer User's Guide* contains information on deploying AgileApps assets.

7.0   Terminology Changes

A release is listed in this section only if changes occurred in that release.

8.0   Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Deployer

Release 10.11

Added Item	Description
Integration Server	Added a new asset type with ID "isquiescesettings" for the settings of the Integration Server quiesce port. The new asset replaces the "quiesceport" asset.
Package Properties	Added the "Delete Universal Messaging Durables" option to control whether Deployer deletes durables from Universal Messaging deployment sets automatically.

Changed Item	Description
Project Automator command	The command now has optional parameters that you can use to specify the location of the SSL certificates when connecting over an HTTPS port.
Integration Server	Deployer and Asset Build Environment (ABE) can now deploy a pre-defined ACL when that ACL contains a group that is not one of the pre-defined groups.

Release 10.7

Changed Item	Description
Project Automator command	You can now create a project with secure ports for servers by adding the '-useSSL' command line parameter to the Project Automator command.

Release 10.3

Added Item	Description
Option to include Java shared code for Java services in the Project Automator XML file	You can now include or exclude Java shared code for selected Java services. In the exported XML file, add the new attribute "selectAllFiles" for the "JavaService" element to include or exclude the Java shared code Example: *<JavaService name="testDeployPkg.javaSvc:javaSvc" package=* *"testDeployPkg" srcAlias="ISSource"* *selectAllFiles="true"/>* Set "selectAllFiles" to "true" to include the Java shared code. The default value is "false". For more information about the *JavaService* tag, see the sample XML file *ProjectAutomatorSampleForRuntime.xml* provided in the *Integration Server_directory/ instances/instance_name /packages/WmDeployer/config* directory.
Task Engine	Deployer now supports deployment of Task Engine assets to Integration Server runtimes.

Release 10.1

Added Item	Description
CreateIndex attribute	A new attribute *createIndex* is now available that allows you to create repository indexes. Set this attribute to "true" to create the index in the source repository. Setting this attribute to "false" will not create the index in the source repository. Default value is "false".

Added Item	Description
Page Depth property	If the project is for My webMethods Server, you can set the *Page Depth* property for the project under the MWS Deployment Options area. If the value of this property is 1, all first level child pages that are under a selected parent page are deployed, even if the child pages are not selected in the deployment set. Default value is 1. If the value of this property is 0, only those child pages that are selected will be deployed. Child pages that are not selected will not be deployed.
Digital Event Services	Deployer now supports deployment of Digital Event Services (DES) assets.
CloudStreams	Deployer now supports deployment of CloudStreams assets.
ActiveTransfer	Deployer now supports deployment of ActiveTransfer assets.
API Gateway	Deployer now supports deployment of API Gateway assets.

Release 9.12

Added Item	Description
AgileApps	Deployer now supports deployment of AgileApps version 10.7 assets and later.

Release 9.10

Deprecated Item	Replacement, if any
Universal Messaging cluster configuration	Cluster configuration is deprecated as a deployable asset type. Use the Universal Messaging cluster management feature in Software AG Command Central.

Asset Build Environment

Release 10.11

Added Item	Description
Business Rules	Added the "RULES.skip.clean" build property to specify whether the build script should delete previously built assets when building the Rules assets.

Release 10.3

Added Item	Description
Uploading Composites and Descriptors to a Git repository	You can now use Asset Build Environment to push composites and descriptors to a Git repository by specifying additional properties in the *build.properties* file.
Command Central	Asset Build Environment now supports building of Command Central composite assets. Software AG Command Central can now export configuration properties for Software AG runtime components as YAML templates, from which you can create composite assets.

Release 10.1

Added Item	Description
API Gateway	Asset Build Environment can now be used to build the composites for API Gateway.
ActiveTransfer	Asset Build Environment can now be used to build the composites for ActiveTransfer.
CloudStreams	Asset Build Environment can now be used to build the composites for CloudStreams.
Digital Event Services	Asset Build Environment can now be used to build the composites for Digital Event Services (DES).

Added Item	Description
AgileApps	Asset Build Environment can now be used to build the composites for AgileApps.

9.0   Copyright Information

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10.0 Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the Tech Community website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

DEPABE-RM-1011-20211015

Software AG Designer 10.11 Readme

October 2021

This file contains important information you must read before using Software AG Designer 10.11. You can find system requirements, user documentation, and installation and upgrade instructions on the [Documentation website](#) or the [TECHcommunity website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0　Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0　Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

- SDEF-2914

  When you launch Designer as a normal user in any Windows Server version and click "Installation Details" in the "About Software AG Designer" dialog box (Help > About Software AG Designer), it throws the following exception,

  "java.lang.IllegalStateException: Profile not locked due to exception:

  <Profile_location> (Access is denied)"

  As a workaround, launch Designer as an Administrator to view the installation details.

- SDEF-2797

  Designer 10.7 uses Eclipse 4.15 and it does not display the process name, host name, and port details in the "Window > Show View > Other > General > Console" view.

  There is no workaround for this issue.

- SDEF-1832
  On Mac OS X, the layout of Software AG Designer installation has changed to keep in line with Eclipse 4.5. As part of the layout change, the shell script designerc.sh is used to launch Software AG Designer. You can customize the bash script at Designer/Eclipse.app/Contents/MacOS/designerc.sh file. However, there is an issue with restarting Software AG Designer from within the Workbench. To work around this issue, close Software AG Designer and relaunch.

3.0　Usage Notes

This section provides any additional information you need to work with the current release of Software AG Designer.

- The Eclipse update sites listed in Window > Preferences > Install/Update > Available Software Sites have been disabled. Software AG does not recommend using these sites to update Designer's Eclipse platform because doing so might have undesired consequences. Use the Software AG

Update Manager to apply updates to Designer.

- Opening an editor freezes the Designer workstation due to a gtk bug
  https://bugzilla.gnome.org/show_bug.cgi?id=686838.

  To work around the problem, add the following Java option in the 'eclipse.ini' file:

  - Dorg.eclipse.swt.internal.gtk.disablePrinting

- To Setup Software AG Designer in Linux platform, refer to
  http://www.eclipse.org/swt/faq.php#browserwebkitgtk for recommended configurations.

4.0   Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Release 10.11

- SDF_10.5_Fix3

- CEP_10.7_Fix1

- SDF_10.7_Fix2

- SDF_10.3_Fix2

- SDF_10.1_Fix2

Release 10.7

- SDF_10.5_Fix1

Release 10.4

- SDF_10.3_Fix1

Release 10.2

- SDF_9.12_Fix1

- SDF_9.10_Fix2

- SDF_10.1_Fix1

- CEP_10.1_Fix1

Release 10.0

- CEP_9.7_Fix1

- CEP_9.8_Fix1

Release 9.10

- SDF_9.8_Fix1

Release 9.8

- SDF_9.7_Fix1

- SDF_9.6_Fix2

- SDF_9.5_SP1_Fix2

Release 9.7

- CEP_9.5_SP1_Fix4

- SDF_9.6_Fix1

- SDF_9.5_SP1_Fix1

Release 9.6

- CEP_9.5_SP1_Fix3

5.0   Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Release 10.11

- SDEF-2801
  Designer does not display the memory heap status monitor on the status bar after it is launched.

  Enable the "Show heap status" option in Designer under 'Window > Preferences > General'.

  The issue is now resolved.

- SDEF-2782
  Designer does not display the resources properly when the Projects Presentation view is changed from Hierarchical to Flat under Project Explorer.

  Press the F5 key to refresh the resources or hover over the project tree to view the resources.

  The issue is now resolved.

Release 10.5

- SDEF-2369
  On Linux platform (RHEL 7.3 or SUSE 12)

  Designer stops responding on accessing SWT browser. This is due to the Eclipse bug https://bugs.eclipse.org/bugs/show_bug.cgi?id=467646.
  Designer support for XULRunner 31.x is not available. To work around this issue, downgrade XULRunner version.

  Upon clicking Help > About Software AG Designer, Designer displays the error message "MOZILLA_FIVE_HOME not set".

  Also, the Welcome page for Designer does not appear properly. The links on the page are not ordering correctly and some icons on the Welcome page are not displayed. To resolve these problems, following JVM options in the 'eclipse.ini' file had to be added:
  - Dorg.eclipse.swt.browser.DefaultType=Mozilla
  - Dorg.eclipse.swt.browser.XULRunnerPath=/usr/lib64/xulrunner

  These issues are resolved.

- SDEF-1929
  In high screen resolution, Designer does not auto-scale icons and fonts as per the specified DPI.
  This issue occurs as a result of Eclipse Bug 462952.
  This issue is resolved.

- SDEF-1960
  On Windows 10 operating system, Designer does not have default preference for the user interface appearance. This causes a difference in the appearance of Designer user interface.
  To work around this issue, you must select the appearance theme in the Preferences page. In Preferences > General > Appearance, select Windows as Theme and select Default (current) as Color and Font theme. Restart Designer.

  This issue is resolved.

Release 9.12

- SDEF-2006
  When Designer is launched for the first time from the Start menu, the following error message appears: "An internal error occurred during: "Setup check". There is no eclipse.launcher property defined". This error message can be ignored and does not notify any problem with the Designer setup. This issue occurs due to Eclipse bugs 471731 and 464122.
  This issue is resolved.

Release 9.10

- SDEF-1185
  The context menu in the Project Explorer view of Designer displays the Import option twice upon deleting a project from the Project Explorer view.
  This issue occurs as the result of the Eclipse Bug 448873.
  This issue is resolved.

- SDEF-1495
  Designer displays the same icons multiple times in the toolbars of various views in Designer upon resetting a perspective to its original layout.
  This issue occurs due to an Eclipse known issue Bug 448873.
  This issue is resolved.

Release 9.8

- SDEF-1339
  Designer requires an installation of Java SE in order to run on Mac OS X.
  If no other Java SE is installed apart from the JVM that was installed with Designer, Designer running on Mac OS X displays a message at startup stating that a Java SE Runtime must be installed.
  This issue is resolved. To resolve this issue, a new shell script, designerc.sh, is provided to launch Designer from a terminal shell. This shell script is available in the Software AG root installation directory/Designer/eclipse directory. Alternatively, installing Java SE also resolves this issue. In both these cases, Designer will use the JVM provided by Software AG.

- SDEF-1575
  Designer updated to include JGit version 3.4.2 that resolves a JGit client vulnerability in Eclipse.
  A vulnerability affecting all versions of Git clients was announced in https://github.com/blog/1938-vulnerability-announced-update-your-git-clients (Eclipse Bug 456947).
  This problem is resolved in JGit version 3.4.2, which is shipped along with Designer 9.8.

- SDEF-1498
  After configuring NTLM authentication for the process audit database in Integration Server,

Designer issues the following error when testing the connection:
[SoftwareAG][SQLServer JDBC Driver]NTLM (type-2) Authentication was requested but the
required DDJDBCx64Auth05.dll was not found on the path specified by the java.library.path
system property.
This issue is resolved.

▪ SDEF-1280
Right-clicking in the SVN Repositories view does not display the context menu.
When you right-click in the SVN Repositories view in Software AG Designer, the context menu
does not show up. The menu is displayed only after right-clicking several times. The problem
occurs due to Eclipse 4.3 compatibility issues with the SVN Repositories right-click context menu.
This issue is resolved.

▪ SDEF-915
When defining a Software AG Runtime instance in the Servers view, two Password Required dialog
boxes appear.
When you define a Software AG Runtime instance in the Servers view after starting Designer with
a new workspace, two Password Required dialog boxes appear when you select the Platform
Manager URL box.
This issue is resolved.

Release 9.7

▪ SDEF-1243
Creating a Software AG Runtime instance using a secure connection fails.
In the Servers View, when you attempt to create a Software AG Runtime instance using an https
Platform Manager URL and then click 'List Servers', Software AG Designer returns an error and no
connection is established.
The issue is resolved. A secure connection is now the default when creating a Software AG Runtime
instance.

▪ SDEF-917
Fix names are not clearly displayed in Software AG Designer.
Software AG Eclipse features and plug-ins encode the fix number as the fourth part of their full
versions. For example, the version 8.2.3.0001-0235 represents fix #1 of version 8.2, service pack 3,
build 235. In addition, a single product might comprise several features, and a fix might update
only some features. Thus, identifying the latest fix becomes complex.
The About Software AG Designer dialog box has been enhanced to display clear information about
the installed products, organized in tabs according to the provider.
The Software AG tab displays all installed Software AG products by name, including version and
the highest fix number, if a fix has been applied. For example:
webMethods Service Development
Version 9.7 (fix #3 applied)

▪ SDEF-916
The button labels in the About Software AG Designer dialog box do not provide information about

the installed products.

The button tool-tips in the About Software AG Designer dialog box display the provider name, for example Software AG, instead of the product name. When checking the version and fix level of a Designer plug-in, you might need to click a number of buttons before identifying the correct button for the product.

Now the About Software AG Designer dialog box displays clear information about the installed products, organized in tabs according to the provider.

The Software AG tab displays all installed Software AG products by name, including version and fix number, if a fix has been applied. For example:

webMethods Service Development

Version 9.7 (fix #3 applied)

In addition, the button tool-tips display the Eclipse feature(s) related to a product.

Release 9.6

- SDEF-1291

  The New Server wizard in Software AG Designer displays an incorrect error message when validating an IPv6 address.

  While creating a new Software AG Runtime server in Designer, if you provide an invalid IPv6 address in the Platform Manager URL field, the New Server wizard displays the following incorrect error message: "Cannot connect to the Platform Manager. Check the URL and the credentials."

  This issue is resolved. Now the New Server wizard displays the message: "The URL is invalid."

- SDEF-1010

  Software AG Designer does not display the Welcome page properly.

  On the Welcome page in Designer, when you click the "Visit Software AG Community Website" link and then go back to the Welcome page using the "Navigate to previous topic" arrow, Designer displays an empty Welcome page.

  This issue is resolved. Now Designer opens the "Software AG Community Website" link in an external window.

- SDEF-894

  When the Welcome page of Software AG Designer is open as a view, the page does not inform you that you have no products installed.

  With only Designer installed, when you open the Welcome page and then double-click the page tab, the minimized Welcome page does not display the message: "You have no installed products." This issue is resolved.

- SDEF-893

  The Welcome page of Software AG Designer is not displayed properly after using the "Customize page" toolbar icon.

  When you click the "Customize page" toolbar icon on the Designer Welcome page and select a home page theme other than Software AG, the Welcome page layout becomes unreadable.

  This issue is resolved. The "Customize page" icon is no longer available.

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.7

- A new section, "Secure Storage Runtime Options" is added under the topic, "Configuring the Secure Storage" in the online help set, *Tips, Training, and Other Resources* and the PDF publication, *Working with Software AG Designer.*

Release 9.12

- A new topic, "Configuring the Secure Storage "is included in the online help set *Tips, Training, and Other Resources* and the PDF publication, *Working with Software AG Designer.*

Release 9.10

- The following new topics are included in the online help set *Tips, Training, and Other Resources* and in the PDF publication *Working with Software AG Designer:*

  - Enabling Automatic Updates

  - Enabling Eclipse Update Sites

  - Enabling Error Reporting Notifications

  - Enabling Preference Recorder

Release 9.9

- The following new topics are included in the online help set *Tips, Training, and Other Resources* and in the PDF publication *Working with Software AG Designer:*

  - Verifying Java Byte Code

  - Java Code Cache

Release 9.8

- Software AG documentation is no longer available on the Software AG installer. You can access all Software AG documentation on the Documentation website.
  Note: Software AG Designer online help and other online helps that are installed along with Designer features are still available as part of Designer Eclipse Help under the Software AG

Designer Guides node. However, the Designer documentation that is available on the [Documentation website](#) might contain more comprehensive information about the new features.

- Working with Software AG Designer now contains a new topic, Managing the Designer User Configuration, which includes information that was available in the following topics as well additional information related to installing Designer into a subfolder of Program Files:

  - Implementing a Multi-User Eclipse Configuration

  - Configuring Eclipse for Non-Administrator Accounts

  - Considerations when Starting Designer on Windows

Release 9.7

- A new section, "Finding Installed Products, Versions, and Fixes", has been added to the PDF publication *Working with Software AG Designer* and to the online help set *Tips, Training, and Other Resources*.

Release 9.6

- A new section, "Considerations when Starting Designer on Windows", has been added to the PDF publication *Working with Software AG Designer* and to the online help set *Tips, Training, and Other Resources*.

Release 9.5

- The topic "Configuring SSL Connections in Designer" is added to the online help set *Tips, Training, and Other Resources* and to the PDF publication *Working with Software AG Designer*.

7.0   Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 10.11

Changed Item	Description
Eclipse version upgrade	Software AG Designer and all its plug-ins are now packaged in Eclipse 4.19 (March 2021).

Release 10.7

Changed Item	Description
Eclipse version upgrade	Software AG Designer and all its plugins are now supported on the latest service release of Eclipse 4.15.

Release 10.5

Changed Item	Description
Eclipse version upgrade	Software AG Designer and all its plug-ins are now supported on the latest service release of Eclipse 4.11.0.

Release 10.3

Changed Item	Description
Eclipse version upgrade	Software AG Designer and all its plug-ins are now supported on the latest service release of Eclipse 4.7.3.

Release 10.1

Changed Item	Description
Eclipse version upgrade	Software AG Designer and all its plug-ins are now supported on the latest service release of Eclipse 4.6.3.

Release 9.12

Changed Item	Description
Eclipse version upgrade	Software AG Designer and all its plug-ins are now supported on the latest service release of Eclipse 4.5.2.
Default encrypting algorithm	Software AG Designer is enhanced with PBEWithSHA1AndDESede as the preselected algorithm.

Release 9.10

Removed Item	Replacement, if any
CVS Support	CVS is no longer included with Eclipse packages by default. You can install CVS integration component into Software AG Designer from the Eclipse Marketplace.

Changed Item	Description
Eclipse version upgrade	Software AG Designer and all its plug-ins are now supported on the latest service release of Eclipse 4.5.

Release 9.9

Changed Item	Description
Eclipse version upgrade	Software AG Designer and all its plug-ins are now supported on the latest service release of Eclipse, 4.4.2.

Release 9.8

Added Item	Description
Installation folder for Designer	It is now possible to install Designer in a subfolder of Program Files.

Changed Item	Description
Eclipse version upgrade	Software AG Designer and all its plug-ins are now supported on Eclipse 4.4.

Release 9.7

Added Item	Description
Ability to select and copy product information from the Software AG Preferences page.	It is now possible to select some or all rows in the Installed Software AG Features table and copy the information to the clipboard.

Changed Item	Description
"About Software AG Designer" dialog box.	The "About Software AG Designer" dialog box was redesigned and enhanced to display installed products categorized by provider. It displays information about version and applied fixes for the products provided by Software AG.

Release 9.6

Removed Item	Replacement, if any
"Customize page" icon on Welcome page.	

Changed Item	Description
Eclipse update sites are disabled by default.	The Eclipse update sites listed in Window > Preferences > Install/Update > Available Software Sites have been disabled. Software AG does not recommend using these sites to update Designer's Eclipse platform because doing so may have undesired consequences.

Release 9.5

Software AG Designer is now based on Eclipse version 4.3. The plugins that Software AG provides are developed and tested for Eclipse version 4.3.

8.0   Copyright Information

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the product documentation, located at http://softwareag.com/licenses and/or in the root installation directory of the licensed product(s).

9.0   Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the TECHcommunity website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

DES-RM-1011-20211015

webMethods Developer Portal 10.11 Readme

October 2021

This file contains important information you must read before using webMethods Developer Portal 10.11. You can find system requirements, user documentation, and installation and upgrade instructions on the [Documentation website](#) or the [TECHcommunity website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0   Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0   Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

- DPO-30

  Vulnerable 3rd Party Component Elasticsearch used.

  Vulnerable elasticsearch-core-7.12.1.jar is used. The safe version to use is 7.14.0.

- DPO-39 - [Responsiveness]

  Header is breaking on small screen.

  Header section of Developer Portal is broken, when accessed from smaller screens like mobile devices.

- DPO-62

  Algorithm None is supported in access token

  JWT supports the usage of 'none' algorithm for use-cases where the integrity of the claim within JWT is already verified by other means. This vulnerability can be exploited by attackers.

3.0   Usage Notes

This section provides any additional information you need to work with the current release of this product.

- webMethods Developer Portal 10.11 can either import APIs directly or have APIs published from API Gateway and third-party API providers. In case APIs are published from API Gateway, webMethods Developer Portal 10.11 requires API Gateway 10.7 or higher.

- Migration of Assets like APIs, Packages, and Applications from webMethods API Portal to webMethods Developer Portal is possible only from webMethods API Portal 10.7 version. Refer the Upgrade Guide for more details.

4.0   Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

- NA

5.0   Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

- NA

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.11

The following artifacts have been introduced for Developer Portal 10.11:

- webMethods Developer Portal User Guide: This guide describes how you can customize and administer Developer Portal to effectively allow users to onboard.

- webMethods Developer Portal Configuration Guide: This guide describes how you can configure Developer Portal for high availability setup and enhanced security.

7.0   Terminology Changes

A release is listed in this section only if changes occurred in that release.

- NA

8.0　Added, Removed, Deprecated, or Changed Items

This section lists features, functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 10.11

Added Item	Description
API	- Support to import REST and SOAP APIs - REST API import using Swagger, Open API, and RAML - SOAP API import using WSDL. - Support to publish REST, SOAP, and OData APIs. - Options to sort, view, APIs, and API details from the API gallery page. - Support to edit API definition and details. - Support to version APIs.

Added Item	Description
Administration configurations	- Options to specify following user onboarding configurations: LDAP, SAML, OAuth, and native user registration - Options to configure SMTP settings, User account settings, Email notification templates configuration.
Webhooks	Support to create and manage webhooks to notify external systems about the events that are generated in Developer Portal.
Providers	Add and manage different kind of providers like API Gateway providers and other external providers.
API Gateway integration	Support to publish APIs, Plans, and Packages from API Gateway.
Analytics	Dashboards for good insights on various topics like User analytics, API trends, API and Application analytics.
Themes	Support to customize the UI as per the customers requirement via the Developer Portal UI, web components, or using REST APIs.
Communities	- Support to organize and group different users and APIs to control the access of assets. - Option to assign default user community to new users. - Option to add or remove users from communities.
Applications	- To manage consumer applications and APIs associated with them. - Support to request the required tokens for the APIs published from APIs and test the API resources.

9.0   Copyright Information

10.0 Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the TECHcommunity website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

DPO-RM-1011-20211015

Software AG Digital Event Services 10.11 Readme

October 2021

This file contains important information you must read before using Software AG Digital Event Services 10.11. You can find system requirements, user documentation, and installation and upgrade instructions on the [Documentation website](#) or the [Tech Community website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0　Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0　Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

3.0　Usage Notes

This section provides any additional information you need to work with the current release of this product.

- DEV-1219
  Software AG Digital Event Services is in compliance with the General Data Protection Regulation (GDPR) and does not store, collect, or process any personally identifiable information.

- NUM-6873
  After you restart a shared durable subscriber to a Digital Event Services (DES) event type, the subscriber might receive events out of order.
  The issue occurs when the subscriber is configured with a Universal Messaging source service and the target Universal Messaging server has the SyncQueuePublisher property set to "true". The default value of SyncQueuePublisher for the webMethods configuration profile of Universal Messaging is set to "false". However, the Universal Messaging custom configuration profile for Terracotta has SyncQueuePublisher set to "true".
  If you switch to the Universal Messaging custom configuration profile for Terracotta, make sure that SyncQueuePublisher is set to "false".

4.0　Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Release 10.3

- DEV_10.3_DigitalEventServicesLibraries_Fix1

- DEV_10.3_DigitalEventServicesRuntimeBundles_Fix1

- DEV_10.3_DigitalEventServicesSharedBundles_Fix1

- DEV_10.3_DigitalEventServicesDesigner_Fix1

Release 10.2

- DEV_10.2_DigitalEventServicesSharedBundles_Fix1

Release 10.1

- DEV_10.1_Digital Event Services Libraries_Fix4

- DEV_10.1_Digital Event Services Runtime Bundles_Fix4

- DEV_10.1_Digital Event Services Shared Bundles_Fix2

- DEV_10.1_Digital Event Services Designer_Fix1

Release 10.0

- DEV_10.0_Digital Event Services Libraries_Fix1

- DEV_10.0_Digital Event Services Runtime Bundles_Fix1

- DEV_10.0_Digital Event Services Shared Bundles_Fix1

Release 9.12

- EDA_9.12_Digital Event Services Libraries_Fix9

- EDA_9.12_Digital Event Services Runtime Bundles_Fix9

- EDA_9.12_Digital Event Services Shared Bundles_Fix1

5.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 9.12

- A new guide was added for Digital Event Services: *"Using Digital Event Services to Communicate between Software AG Products"*.

6.0 Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 10.3

Added Item	Description
Event Generator Utility	The Event Generator is a tool in Software AG Designer that enables developers to generate streams of digital events. The Event Generator is also available as a command-line tool. For more information, see the Digital Event Services documentation.
Non-queued Delivery Mode	Digital Event Services now provides a configuration switch to bypass the store-and-forward queue. You can use non-queued delivery for service groups that have one destination service of type Universal Messaging or Digital Event Persistence.

Release 10.2

Added Item	Description
Secure communication configuration through Command Central	Using Software AG Command Central, you can configure Digital Event Services (DES) Universal Messaging services for communication over Secure Sockets Layer (SSL) with a Universal Messaging server. For more information, see the Digital Event Services documentation.
License configuration through Command Central	You can now manage Digital Event Services licenses using Software AG Command Central. For more information, see the Digital Event Services documentation.

Release 10.1

Added Item	Description
Deployment of custom event types	Software AG Deployer now supports deployment of DES assets. You can use webMethods Asset Build Environment to build composites for DES.
Migration from Command Central	You can use a standalone DES migration utility in Software AG Command Central.
Encrypted event transmission	Digital Event Services supports the Universal Messaging NSPS protocol for secure communication. For more information, see the Digital Event Services product documentation.
Software AG Event Console in Software AG Designer	A tool in Designer that enables administrators to monitor and diagnose the publishing of digital events of a given event type.
Digital Event Type Language Updates	
- New "Any" field data type	A field that can have values of any data type that the DES event type language supports.
- New "Map" field data type	A field that maps keys to values.
- New "Time" field data type	A field that represents a specific instant of time with millisecond precision.
Reliable delivery over In-Process (IP) service	The In-Process (IP) service now supports durable subscriptions and can be used for reliable communication.

Release 10.0

Added Item	Description
In-Process (IP) service	The IP service allows different parts of an application runtime to exchange events.

7.0   Copyright Information

8.0   Support

Visit the [Empower website](#) to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the [Tech Community website](#) to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

DEV-RM-1011-20211015

webMethods EntireX 10.8 Readme

October 2021

This file contains important information you must read before using webMethods EntireX 10.8. You can find system requirements, user documentation, and installation and upgrade instructions on the [Documentation website](#) or the [Tech Community website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0   Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0   Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the Empower website.

- EXX-13947
  EntireX RPC Server for XML/SOAP cannot be started automatically with CTP.

- EXX-13933
  `PSTORE-VERSION=5` is not accepted by Command Central.
  Workaround: Do not specify `PSTORE-VERSION` in the Broker attribute file.

3.0   Usage Notes

This section provides any additional information you need to work with the current release of this product.

- c-tree is now known as FairCom DB. EntireX version 10.8 uses FairCom DB v12.0.1.
  This new version is not compatible with the old version 11.6.1.
  This means that when you upgrade to EntireX 10.8 you will need to restart with `PSTORE=COLD`.

- For Linux platform Red Hat 8 (Intel and zLinux), the packages `libnsl` and `glibc-devel` must be installed before you can install EntireX.

4.0   Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the Empower website for detailed information about fixes.

Release 10.8

UNIX / Windows:
- EntireX CommandLineScripts 10.7 Fix 5ibm i
- EntireX Bundles 10.7 Fix 5
- EntireX Core 10.7 Fix 5
- EntireX SPM Common 10.7 Fix 5
- EntireX SPM Broker 10.7 Fix 5
- EntireX SPM Mainframe Broker Monitoring 10.7 Fix 5
- EntireX SPM RPC Server 10.7 Fix 5
- EntireX Adapter 10.7 Fix 5

z/OS:

- EntireX Broker and Stubs 10.7 Fix 5 for z/OS
- EntireX RPC Server 10.7 and CICS Socket Listener 10.7 Fix 5 for z/OS
- EntireX Java Components on z/OS 10.7 Fix 5

Release 10.7

UNIX / Windows:

- EntireX Broker 10.5 Fix 14
- EntireX Core 10.5 Fix 12
- EntireX Designer 10.5 Fix 15
- EntireX Bundles 10.5 Fix 12

z/OS:

- EntireX Broker and Stubs 10.5 Fix 19 for z/OS
- EntireX RPC Server 10.5 and CICS Socket Listener Fix 13 for z/OS
- EntireX Java Components on z/OS 10.5 Fix 5

Release 10.5

UNIX / Windows:

- EntireX Libraries 10.3 Fix 11
- EntireX Miniruntime 10.3 Fix 11
- EntireX Broker 10.3 Fix 11
- EntireX Core 10.3 Fix 14
- EntireX Bundles 10.3 Fix 14
- EntireX Designer 10.3 Fix 14
- EntireX Broker SPM 10.3 Fix 14
- EntireX SPM Mainframe Broker Monitoring 10.3 Fix 14
- EntireX CommandLineScripts 10.3 Fix 17

z/OS:

- EntireX Java Components on z/OS 10.3 Fix 14
- EntireX Broker and Stubs 10.3 Fix 15 for z/OS

Release 10.3

UNIX / Windows:

- EntireX Bundles 10.1 Fix 12
- EntireX Designer 10.1 Fix 13

- EntireX Core 10.1 Fix 14
- EntireX Broker 10.1 Fix 17

z/OS:

- EntireX RPC Server 10.1 Fix 8 for z/OS
- EntireX Broker and Stubs 10.1 Fix 12 for z/OS

Release 10.1

- EXX_9.12_Designer_Fix1
- EXX_9.12_SPM_Fix3
- EXP912P010
- EXX_9.12_Core_Fix11
- EXX_9.12_Broker_Fix12
- EXX912L016
- EXB912L016

Release 9.12

- EXX_9.10_Designer_Fix2   Fix 2 for Eclipse

Release 9.10

- EXX_9.9_Core_Fix2   Fix 2 for EntireX Core
- EXX_9.9_SPM_Fix3   Fix 3 for SPM
- EXX_9.9_Designer_Fix5   Fix 5 for Eclipse
- EXB990L006   Fix 6 for z/OS
- EXX990L006   Fix 6 for z/OS
- XAI_9.9_Fix2   Fix 2 for the EntireX Adapter

5.0   Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.7

- Monitoring
  New section EntireX Monitoring describes the various monitoring approaches provided by EntireX. It also shows common scenarios using these approaches. Links are provided to other sections of the EntireX documentation, where these approaches are described in greater detail.

Release 10.5

- Integration Scenarios
  The scenarios Calling REST from COBOL and Calling REST from Natural have been added to reflect the new support of REST technology.

- High Availability
  New section on setting up your Environment for High Availability with Container Orchestration has been added.

Release 10.3

- Integration Scenarios
  The scenarios Calling COBOL from REST and Calling Natural from REST have been added to reflect the new support of REST technology.

Release 10.1

- Integration Scenarios
  The scenarios Calling Integration Server from COBOL and Calling Integration Server from Natural have been thoroughly reworked and expanded.

Release 9.12

- Command Central
  The separate Command Central documentation has been reorganized; product-specific information is now provided with the product itself. See *Administering EntireX Broker with Command Central* in the EntireX documentation. The command-line documentation has been enhanced, and a new section describing the graphical user interface is provided.

- Application Monitoring MashApp
  As in earlier versions, a sample Application Monitoring MashApp is provided in Empower under Products & Documentation > Download Components > EntireX - Application Monitoring MashApp. This MashApp is no longer described in the main EntireX documentation. Separate documentation (PDF) and a readme file are also provided for download from Empower.

Release 9.10

- Web Services Stack
  Multiple sections of the EntireX documentation reference the separate Web Services Stack documentation. Since webMethods Suite 9.8, this documentation is part of the *Software AG Infrastructure Administrator's Guide,* also available under https://documentation.softwareag.com/ > *Guides for Tools Shared by Software AG Products*.

7.0   Terminology Changes

A release is listed in this section only if changes occurred in that release.

Release 10.3

Old Term	New Term
EntireX Workbench	Designer

Release 9.12

Old Term	New Term
WebSphere MQ RPC Server	webMethods EntireX RPC Server for IBM® MQ
WebSphere MQ RPC Listener	webMethods EntireX RPC Listener for IBM® MQ

8.0   Added, Removed, Deprecated, or Changed Items

This section lists features, functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 10.8

Added Item	Description
Security enhancements	• Default password handling. For greater security, default password handling has been enhanced for Software AG products that are installed with the SAG Installer. On the Administrator Password panel, enter a default product administrator password for the products you are installing, and choose whether to require the password to be changed on first product login. • PassTicket support. PassTickets are now supported for connections to CICS ECI and IMS Connect with the EntireX Adapter and the respective RPC servers. • Encrypted Password for `ETBINFO` and `ETBCMD`. Security for command-line utilities `ETBINFO` and `ETBCMD` under UNIX and Windows has been enhanced. Instead of specifying a cleartext password when you call a secure broker, you can now encrypt a password and store this in a file. • Encrypted Password for EntireX Monitoring Scripts. Password encryption is also available for EntireX monitoring scripts.
EntireX Adapter enhancements	• CICS ECI and IMS Connect Connections Support PassTickets. Additional fields are provided to define an application name and a secured signon key. This means you can use a RACF PassTicket instead of a password.

Added Item	Description
Command Central enhancements	▪ Administrating EntireX Mainframe Broker Monitoring. You can now administer EntireX Mainframe Broker Monitoring in Command Central. You can enable and disable the monitoring of the real mainframe broker (z/OS and BS2000) from within Command Central running under UNIX or Windows. This feature is particularly useful for major configuration changes in the mainframe environment, for example changing the user password. ▪ User Transaction ID field for CICS Socket Listener. User Transaction ID has been added as an additional field for CICS Socket Listener. ▪ Location of EntireX Broker Trace File. You can now change the directory of the EntireX Broker trace file.
Designer enhancements	▪ New Default Interface Type for IDL Extractor for COBOL. 'CICS with Standard Linkage Calling Convention' is now the default client interface type for the IDL Extractor for COBOL. The previous default, 'CICS with DFHCOMMAREA Calling Convention' has multiple restrictions regarding API calls, for example: - maximum length 32 KB - no unlimited unbounded array - no long user ID/password These restrictions do not apply to the new default. ▪ Supported Microsoft Visual Studio Versions. C Wrapper and DCOM Wrapper now support Visual Studio 2019 in addition to 2017. Visual Studio 2015 is no longer supported. EntireX now supports Eclipse version 4.19 provided by the webMethods suite.

Added Item	Description
EntireX RPC Server enhancements	▪ RPC Server for IMS Connect supports RACF PassTicket. Additional fields are provided to define a secured signon key. With the application name and the newly provided secured signon key, you can now use a RACF PassTicket instead of password. ▪ RPC Server for CICS ECI supports RACF PassTicket. Additional fields are provided to define a secured signon key. With the application name and the newly provided secured signon key, you can now use a RACF PassTicket instead of password.
Trace Utility	▪ Two additional columns Pid and Tid have been introduced. They display the process ID and the thread ID of each request to the broker.
ETBINFO	▪ New profiles are provided for command-line utility ETBINFO. These produce a more structured output that is easier to understand.

Removed Item	Description
EntireX RPC Server for IBM i	As announced in EntireX Version 10.1, the EntireX RPC Server for IBM i of EntireX version 7.1.1 running under IBM i (AS/400) is no longer supported. However, for technical reasons the RPC server is still included in the package. ▪ For inbound scenarios to AS/400, use either the EntireX Adapter or the EntireX RPC Server for IBM AS/400. ▪ For outbound scenarios, continue using the respective broker stub.
Building a Docker Image using Command Central	It is no longer possible to build an EntireX Docker image using Command Central.
Support of AIX und Sun Solaris SPARC	The platforms AIX and Sun Solaris SPARC are no longer supported.
Microsoft Visual Studio 2015	Visual Studio 2015 is no longer supported. Use Visual Studio 2019, which is now supported in EntireX 10.8, or 2017 instead.

Deprecated Item	Description
Platform consolidation - BS2000	Adabas and Natural are consolidating and streamlining platform support. With EntireX the platform BS2000 is affected by retirements. The final version to support BS2000 will be EntireX 10.3 with the following retirement schedule: ▪ BS2000 11.0 FTS End of Maintenance: Dec. 31, 2023 End of Sustained Support: Dec. 31, 2024 ▪ BS2000 10.0 FTS End of Maintenance: March 31, 2022 End of Sustained Support: March 31, 2022
SVM Files at Runtime in RPC Servers	Support for server-side mapping files (SVM) in the EntireX RPC Servers for CICS ECI, IMS Connect, CICS, Batch and IMS, together with the Deployment Wizard, will be dropped in a future version. We strongly recommend using client-side server mapping files (CVM).
PSTORE-LOAD/UNLOAD	The options PSTORE-LOAD and PSTORE-UNLOAD of Broker-specific attribute RUN-MODE will no longer be supported in the next EntireX version.
Persistent Store Version less than 5	Persistent Stores with PSTORE-VERSION less than 5 are no longer supported.
CentOS	CentOS is no longer supported.

Release 10.7

Added Item	Description
Increased platform support	EntireX now supports: ▪ SuSE Linux ES 15 and Red Hat 8 for Intel Linux platforms ▪ Red Hat 8 under zLinux
Enhanced CICS support	With User Transaction Support, RPC requests run in separate CICS tasks, the user transactions. This, together with a customized name of the user transaction, is useful for accounting purposes.

Added Item	Description
Adapter enhancements	- A REST API is now provided to generate Adapter assets via REST. - EntireX Adapter now supports FIPS-140 compliant SSL communication.
Security enhancements	- EntireX Broker on z/OS supports authentication of participants with their SSL certificate. - Parameter `fips_mode` has been added to enable FIPS-140 compliant SSL communication. This is available for multiple RPC servers, listeners, RPC-ACI Bridge and EntireX Java clients.
Broker enhancements	- EntireX Broker on z/OS supports authentication of participants with their SSL certificate. - With Broker attribute `POSTPONED-QUEUE` you can enable or disable the postponed queue for units of work. - New CIS version 12 enables you to shut down participants using process ID (`JOB-ID` on z/OS) and host name. - New Information Service field `VERIFIED-USER-ID` returns the user ID verified by the security system. - With new operating commands `FREEZE` and `RUN` you can freeze and resume request processing in EntireX Broker.
Socket pool management	With new environment variables `ETB_POOLSIZE` and `ETB_POOLTIMEOUT` you can configure the size of the socket pool and define the maximum wait time for a free TCP/IP connection.
Special character support	- The following special characters are now additionally supported in IDL group and parameter names: ø, Ø, å, Å. - If you are extracting from a Natural RPC environment, you can additionally replace special characters ø, Ø, å, Å in Natural parameter names with underscores.
Trace Utility	An additional column `Certuid` has been introduced between columns `Userid` and `Token`. It displays the user ID to which the SSL certificate is assigned. This applies only to RACF under z/OS.

Removed Item	Description
Micro Focus COBOL	EntireX no longer supports Micro Focus COBOL.
z/VSE support	Support for the following EntireX components will end on 31 October 2020 for all EntireX versions (including 9.6, the last released version on z/VSE):
	- EntireX Broker under z/VSE We strongly recommend using EntireX Broker on a Linux or Windows platform. - EntireX RPC Server for z/VSE CICS We strongly recommend using the EntireX RPC Server for CICS Socket Listener. - EntireX RPC Server for z/VSE Batch No replacement.
SVM Files at Design Time in Software AG Designer	Server-side mapping files (SVM) in the Software AG Designer are no longer supported. SVM files can no longer be created by the IDL Extractor for COBOL and by the COBOL Wrapper. We strongly recommend using client-side server mapping files (CVM). To migrate server-side mapping files (SVM) to client-side server mapping files (CVM), see *Migrating Server Mapping Files* under *Server Mapping Files for COBOL* in the EntireX Software AG Designer.
Direct SSL/TLS Support for Broker under z/OS	Direct SSL/TLS support (using GSK) inside the Broker under z/OS is no longer supported. We strongly recommend using IBM's Application Transparent Transport Layer Security (AT-TLS) instead.
AIX support	AIX version 7.1 is no longer supported. EntireX still supports AIX version 7.2.

Deprecated Item	Description
Solaris v.11.3	The original provider of the operating system Solaris (Oracle) strongly recommends to upgrade from version 11.3 to 11.4 as of now. In order to provide for enough time for Software AG customers to react to the upgrade policy of Oracle for Solaris versions after v.11.3, production environments based on Software AG products of this October 2020 release will in general continue to work without the immediate need to upgrade. However, Software AG customer support will only handle issues for Software AG products that can be reproduced in a Solaris v.11.4 environment. All newer versions of Software AG products AFTER the October 2020 release will no longer work with Solaris v.11.3. Software AG therefore strongly recommends to address necessary migration steps timely.
SVM files at runtime in RPC servers	Support for server-side mapping files (SVM) in the EntireX RPC Servers for CICS ECI, IMS Connect, CICS, Batch and IMS, together with the Deployment Wizard, will be dropped in a future version. We strongly recommend using client-side server mapping files (CVM). To migrate server-side mapping files (SVM) to client-side server mapping files (CVM), see *Migrating Server Mapping Files* under *Server Mapping Files for COBOL* in the EntireX Software AG Designer documentation for prerequisites and steps.
Persistent Store Version less than 5	Persistent Stores with PSTORE-VERSION less than 5 will no longer be supported in the next EntireX version.
PSTORE-LOAD/UNLOAD	The options PSTORE-LOAD and PSTORE-UNLOAD of Broker-specific attribute RUN-MODE will no longer be supported in the next EntireX version.
CentOS-07	CentOS-07 will no longer be supported in the next EntireX version.

Changed Item	Description
Designer	In the EntireX perspective, the deprecated Navigator view has been replaced by the Project Explorer view.

Added Item	Description
Timestamp handling	New Broker CIS interface version 12: New field CREATE-TIME-CL32 replaces deprecated field CREATE-TIME, which can only handle timestamps up to January 2038.
SSL/TLS changes	Existing SSL functionality has changed as follows: The ACI function SETSSLPARMS no longer applies to all threads. Instead, this function needs to be performed for each thread to create an SSL connection to the broker. See *Broker ACI Functions* in the EntireX documentation. When you use SSL transport, socket pooling is switched off (environment variable ETB_SOCKETPOOL=OFF). See *Support of Clustering in a High Availability Scenario* in the respective z/OS	UNIX	Windows sections of the EntireX documentation.

Release 10.5

Added Item	Description
Increased platform support	EntireX now supports Microsoft Windows Server 2019. EntireX Java ACI and Java RPC clients now support both Java 8 and Java 11.
REST enhancements	EntireX now supports scenarios where you have a REST API and want to call this from a COBOL or Natural application.

Added Item	Description
EntireX Adapter enhancements	Extraction of REST Consumers (introduced with Integration Server 10.5) has been added. Additional object wrapper types and default values for service input parameters are now supported.
	It is now possible to extract services with field names containing special characters such as ":" and "*". Extraction of Web Service Connectors is now supported.
	The Application Monitoring Data Collector is now available as a component running inside an Integration Server using the EntireX Adapter.
	Parameters messageID and correlationID have been added for EntireX Adapter services.
	It is now possible to use both object wrapper types and string types with a content type in the same program. At runtime the listener inspects the input signature of the service to be called in order to determine the data type required by the Integration Server.
Broker statistics in Command Central	You can now display the current statistics of a running EntireX Broker.
Application Monitoring enhancements	The Application Monitoring Data Collector is now available as a component running inside an Integration Server using the EntireX Adapter. New KPIs: The message ID and correlation ID of a message are now available as Application Monitoring KPIs. New Command and Information Services (CIS) Version 11: CIS version 11 provides commands to enable/disable the Application Monitoring feature and to define the collector Broker ID for Application Monitoring. New operator commands: Broker supports operator commands `DISPLAY APPMON`, `APPMON=NO|YES` and `COLLECTOR=host:port`. Currently for z/OS only. Using Command Central you can now change Data Collector settings dynamically. The change is effective immediately; there is no need to restart the broker.

Added Item	Description
Ping command for EntireX RPC servers	A ping command is now available for all EntireX RPC servers to test the server's availability. This is particularly useful in a high availability cluster context.
IDL Extractor for Integration Server	You can now extract a subset of services from the desired package.
Testing tool for RPC Server for XML/SOAP	A pop-up message is issued if the EntireX XML Tester is about to communicate with the RPC Server for XML/SOAP. In this case we recommend using the EntireX IDL Tester instead.
New Broker stubs	New broker stub ARFETB for exclusive use by Adabas Replication Services. New broker stub NATETBZ for exclusive use by Natural RPC Server. Both stubs are zIIP-eligible.
Administration Service Enhancements	The Broker Administration service (UNIX and Windows) has been replaced by a more lightweight implementation. The registration, name and usage of the service remains the same. See EntireX Release Notes for details.
c-tree-specific Broker attributes COMPATIBILITY and FLUSH-DIR	These attributes have been introduced to be compatible with c-tree behavior prior to EntireX Broker version 10.5.
Docker Healthcheck	A script healthcheck.sh is now provided for the EntireX RPC servers that support Docker technology. (This was previously available only for EntireX Broker.) Execution of this script pings the component and returns the result of the ping command.
Unique Message ID	Message IDs and Correlation IDs available since ACI version 11 (EntireX 10.1) can now be accessed with EntireX components COBOL Wrapper, .NET Wrapper and C Wrapper.
Long Broker password support	You can use long Broker passwords with COBOL RPC clients built with the COBOL Wrapper.
Long RPC user ID/password support	You can now use long RPC user IDs and passwords with COBOL RPC clients built with the COBOL Wrapper.

Removed Item	Replacement, if any
Software AG is discontinuing the support of Micro Focus COBOL on the platforms Windows and Linux because Micro Focus no longer supports Micro Focus Server Express and Net Express on these platforms. Micro Focus COBOL is still supported on Solaris and AIX, and EntireX still supports Micro Focus COBOL on these platforms. Software AG no longer supports HP-UX.	

Deprecated Item	Replacement, if any
Support for EntireX Broker under z/VSE will end on 31 October 2020.	We strongly recommend using EntireX Broker on a Linux or Windows platform.
Support for EntireX RPC Server for z/VSE CICS will end on 31 October 2020.	We strongly recommend using the EntireX RPC Server for CICS Socket Listener.
Support for EntireX RPC Server for z/VSE Batch will end on 31 October.	None.
Support for server-side mapping files (SVM) in the Software AG Designer will be dropped in the next version. SVM files can no longer be created by the IDL Extractor for COBOL and the COBOL Wrapper. The Deployment Wizard will be dropped in the next version. Support for Server-side mapping files (SVM) in the EntireX RPC Servers for CICS, Batch and IMS will be dropped later in a future version.	We strongly recommend using client-side server mapping files (CVM) for ease-of-use.
Direct SSL/TLS support (using GSK) inside the broker under z/OS will be dropped in the next version.	Use IBM's Application Transparent Transport Layer Security (AT-TLS) instead.
Micro Focus COBOL will be dropped in the next version from all platforms.	

Changed Item	Description
Broker restart behavior with Update Manager	If you install updates for EntireX Broker using the Software AG Update Manager, all brokers that were stopped by the Update Manager before the update will be restarted automatically; the broker's `AUTOSTART` setting is ignored in this context.
	Note: In versions prior to 10.5, all brokers with `AUTOSTART=YES` were restarted, irrespective of whether they were running prior to the update or not.
Margins and max. values of Monitoring KPIs	The setting of margins and max. values used for displaying EntireX Broker KPIs has been reworked.
Adapter log files	The log files created by the Adapter (wmentirex*.log) are now written using the character set UTF-8 (instead of the default character set).
Adapter data types	It is now possible to use both object wrapper types and string types with a content type in the same program. At runtime the listener inspects the input signature of the service to be called in order to determine the data type required by the Integration Server.
Dynamic configuring of Application Monitoring	You can now configure Application Monitoring while the EntireX Broker is running.
Default value for `APPLICATION-MONITORING`	The default value for service-specific attribute `APPLICATION-MONITORING` has been changed from `NO` to `YES`.
Trace Utility Default Output	The EntireX Trace Utility now uses "Full" instead of "Standard" as the default output format.
License handling	EntireX checks only the major number of the version number. This means that EntireX version 10.5 works with all 10.x license files. This applies to EntireX Broker and RPC servers at runtime and also to installation.

Release 10.3

Added Item	Description
Unbounded arrays with COBOL RPC clients	Now supported with COBOL 6 on z/OS.

Added Item	Description
Mapping COBOL data items to binary	In the COBOL Mapping Editor you can now map COBOL data items to IDL binary data.
Command Central Support for Mainframe Brokers	EntireX now supports Command Central for EntireX Brokers running on mainframe platforms.
Generating REST Resources from Adapter	You can now generate REST resources using the EntireX Adapter. All connection types are supported.
CICS Socket Listener Connection	The new Adapter connection type CICS Socket Listener Connection supports all CICS interface types: (DFHCOMMAREA, Channel Container and Large Buffer). CICS Socket Listener Connections use the CICS Socket Listener, a remote connector on z/OS to call CICS mainframe programs.
Direct Reliable RPC Listener Connection	The new Direct Reliable Listener Connection type for the Adapter supports inbound reliable connections using the Direct RPC component.
Service to generate a RACF PassTicket	With the new built-in Adapter service pub.wmentirex.RACFPassTicket:generate you can generate a RACF PassTicket.
Support for the new product "Adabas Replication Service for webMethods Integration Server"	The EntireX Adapter provides support for this product with two new connection types and additional screens in the Integration Server Administration Console.
Long Broker Password Support	Long RPC user IDs and passwords are now supported.
RACF Password Phrases	You can now use RACF password phrases with EntireX Broker and RPC servers under z/OS running with impersonation.
Application Monitoring	- The following connection types of the EntireX Adapter now support application monitoring: AS/400 Connection and CICS Socket Listener Connection. - All EntireX RPC servers now support Application Monitoring.

Added Item	Description
Docker Support	You have a choice of two methods of building a Docker image and running the Docker container: using scripts provided by EntireX, or using Command Central. This functionality is available for the components EntireX Broker, EntireX RPC Server for Java and EntireX RPC Server for XML/SOAP.
EntireX RPC Server for CICS Socket Listener	Allows standard RPC clients to communicate with CICS programs running on IBM CICS®.
EntireX CICS Socket Listener	A remote connector on z/OS to call CICS mainframe programs from the RPC Server for CICS Socket Listener or EntireX Adapter running on a UNIX or Windows platform.
Docker Support	You can build an Docker image and run the Docker container using scripts provided with EntireX for the following EntireX components: ▪ EntireX Broker ▪ EntireX RPC Server for Java ▪ EnrireX RPC Server for XML/SOAP
Long RPC User ID/Password Support	The new ACI Version 12 of Broker supports long passwords and password phrases. The limitation to 32 bytes for password and new password in the ACI no longer applies.

Removed Item	Replacement, if any
The EntireX RPC Server for IBM i of EntireX version 7.1.1 running under IBM i (AS/400)	No longer supported. We strongly recommend using the RPC Server for AS/400 or the EntireX Adapter.
Methods getEnvironment(), setEnvironment(String), useCodePage() and useCodePage(Boolean) of the Java class BrokerService	The methods are obsolete and deprecated. They have been removed.

Deprecated Item	Replacement, if any
Server-side mapping files (SVM)	These will be dropped in a future version. We strongly recommend using client-side server mapping files (CVM) for ease-of-use.

Deprecated Item	Replacement, if any
HP-UX	Software AG is deprecating support for HP-UX. There will be no new versions of EntireX on HP-UX in future releases.
EntireX Broker Administration Service	Will be dropped in the next version. The most important functionality will be covered adequately with other EntireX components.

Changed Item	Description
Installation package EntireX > Installation and Monitoring	This package is now provided as a new installation node with three subpackages: ▪ Application Monitoring Data Collector ▪ Command-line Scripts ▪ Mainframe Broker Monitoring
Licensing	All EntireX RPC servers under UNIX and Windows now check for a valid license file.
Enhanced USTATUS Handling	By default, ACI request and response strings of USTATUS are now converted with ICU.
Adapter Listeners	When you create or update a listener, missing or necessary services are now generated automatically.
Enhanced Integration Server to IDL data type mapping	There are no more restrictions on the data types used in the Integration Server service.
OpenSSL	EntireX now uses OpenSSL 1.1.0 instead of OpenSSL 1.0.2.

Release 10.1

Added Item	Description
Increased platform support	EntireX now runs under Windows Server 2016.
COBOL Integration Enhancements	
COBOL Server using fixed-length tables in variable manner	Support for COBOL server programs that process a variable number of array elements in a fixed-size COBOL table has been extended. This affects the IDL Extractor for COBOL together with the RPC Server for CICS, the EntireX Adapter, the RPC Server for CICS ECI and the RPC Server for IMS Connect.

Added Item	Description
Interface Type COBOL Converter	A new interface type COBOL Converter has been introduced in the IDL Extractor for COBOL. This interface type is used together with the COBOL Converter connection type of the EntireX Adapter to convert Integration Server data structures from/to a byte array representing COBOL binary data.
IBM i (AS/400) COBOL Extraction	COBOL computational data items extracted for AS/400 are mapped to IDL type P (packed decimal) instead of IDL type I (integer).
IBM Enterprise COBOL for z/OS Support	EntireX RPC client and server components now support IBM Enterprise COBOL for z/OS V6.1, in addition to the versions 4.2 and 5.1 supported in earlier versions of EntireX.
Command Central Enhancements	
Installing EntireX using Command Central	EntireX can now also be installed using Command Central instead of the Software AG Installer.
Template-based provisioning	EntireX now supports template-based provisioning with Command Central. Using templates within Command Central you can install EntireX and - at the same time - add instances such as EntireX Broker and multiple RPC servers on local and remote hosts.
Administering RPC Servers using Command Central	EntireX RPC server for C, .NET, IMS Connect, Java, IBM MQ and SOAP/XML can be administered using Command Central.
Workbench Enhancements	
Preferences	The structure of EntireX preference pages in the EntireX Workbench has been simplified. It is now more compact with the most commonly used target environments - COBOL, Integration Server, Natural, PL/I and Web Services - on the first level relative to EntireX preference page. From preference page EntireX > Wrappers you can navigate to all wrappers.

Added Item	Description
IDL Extractor for Integration Server and Integration Server Wrapper	When the Extractor or the Wizard either creates a new connection or updates an existing connection, both the list of connection types and connections are now filtered. Connection types that require a license are only shown if a corresponding license file is available. Reliable RPC connections are only shown if all IDL programs contain only IN parameters. Also, if a server mapping file is available, only those connection types that support the interface type specified in the server mapping file are shown.
CVM/SVM Handling	Client-side mapping files (CVM) are now default in the EntireX Workbench. As server-side mapping files (SVM) will be dropped in a future version, we strongly recommend using client-side mapping files. These are easier to use and do not require any deployment on your server. Support for CVM files for platforms z/VSE and BS2000 will be introduced in a future version.
EntireX RPC Server Enhancements	
New RPC Server for AS/400	The new EntireX RPC Server for IBM® AS/400® enables you to remotely call server programs written in all ILE-based languages, for example C, COBOL, RPG.
RPC Server for CICS Abend Handling	As of version 10.1, the exit for the CICS RPC abend handling is no longer delivered in the LOAD module of the z/OS installation. The exit is assembled from the CEEWUCHA source delivered with the z/OS LE sample library CEE.SCEESAMP. The install job EXPINSTA delivered on EXX1010.JOBS has a step that assembles the CEEWUCHA exit.
User Exit for Additional HTTP Headers with RPC Server for XML/SOAP	A new user exit allows you to add HTTP headers before an RPC call, or to add an HTTP header to an optional retry call.

Added Item	Description
Configuration Parameter entirex.server.verbose	The configuration parameters entirex.server.verbose and entirex.bridge.verbose previously used by multiple servers and listeners are no longer available. Verbose logging is now enabled whenever the configuration parameter entirex.trace has a value greater than 0.
EntireX Adapter Enhancements	
COBOL Server using Fixed-length Tables in Variable Manner	The EntireX Adapter - together with the IDL Extractor for COBOL - supports additional approaches of a COBOL server that process a variable number of array elements in a fixed-size COBOL table (array).
New Interface Type AS/400 Connection	The new interface type AS/400 connection enables you to remotely call server programs written in all ILE-based languages, for example C, COBOL, RPG.
Alternative Mapping of IDL Data Types to Integration Server Data Types	IDL data types can now be mapped to non-string Integration Server data types. The main use case is to support JSON document types in Integration Server.
Other Changes and Enhancements	
Microsoft Visual Studio 2017 support	The C Wrapper and the DCOM Wrapper now support Microsoft Visual Studio 2017.
Unique message ID	With ACI version 11 and above, all messages sent to the broker are given a unique message ID. This message ID is useful for tracking individual messages in the trace and log files.
Postpone units of work	Service-specific attributes `POSTPONE-ATTEMPTS` and `POSTPONE-DELAY` have been added to postpone processing of UOWs that have been cancelled by the receiver. The UOWs are moved to the postpone queue instead of being deleted.
Support of 64-bit Time Values on z/OS	Broker attribute `PSTORE-VERSION` now has a new version 5 to support 64-bit time values on z/OS.
Improved Adabas PSTORE Handling	Adabas persistent store handling has been enhanced on all platforms. The new `PSTORE` version 5 offers significant improvement in performance. We strongly recommend you use this version.

Added Item	Description
CIS Version 10	The new object UOW-STATISTICS supplies important information on units of work per service. The CIS command SET-UOW-STATUS has been added to control postponed units of work.
Consistent Handling of Duplicates in Broker Attribute File	With this release, additional checks are performed on service-specific attributes in the broker attribute file. Duplicate entries are now detected and error message 00210035 is given. This applies to the default definitions and the individual definitions in all DEFAULTS=SERVICES sections. This behavior is now consistent for all sections of the attribute file.
SSL/TLS Hostname Verification in Java Components	For all Java-based components that act as an SSL client, the hostname verification has been changed to conform to the RFC 2818 standard. If the server certificate contains a subjectAltName extension of type dNSName, this name is now used as the identity. Otherwise, the Common Name field in the Subject field of the certificate is used. If only the Common Name field should be used as before, the SSL parameter ignore_rfc_2818=yes must be set in the Broker ID.

Removed Item	Replacement, if any
z/VM	EntireX no longer supports the operating system z/VM.
ETBSRV	The EntireX Broker command-line utility ETBSRV is no longer provided. You can use ETBINFO under z/OS	UNIX	Windows	z/VSE	BS2000 or Command Central instead.
EntireX Broker Tutorial	The Natural-based EntireX Broker Tutorial is no longer provided.

Deprecated Item	Description
Java API Class BrokerService	The obsolete methods getEnvironment(), setEnvironment(String), useCodePage() and useCodePage(Boolean) of the Java class BrokerService have been deprecated. They will be removed with the next version of EntireX.

Deprecated Item	Description
Server-side mapping files (SVM)	Server-side mapping files (SVM) will be dropped in a future version. We strongly recommend using client-side server mapping files (CVM) for ease-of-use.
EntireX RPC Server for IBM i	The of EntireX version 7.1.1 running under IBM i (AS/400) will no longer be supported in the next version of EntireX. We strongly recommend using the new RPC Server for AS/400 or the EntireX Adapter.
Java class `BrokerService`	The obsolete and deprecated methods `getEnvironment()`, `setEnvironment(String),useCodePage()` and `useCodePage(Boolean)` of the Java class `BrokerService` will be removed in the next version.

Changed Item	Description
Automatic character conversion	EntireX Broker has a reworked mechanism for character conversion. Incorrect configurations (e.g. RPC communication without character conversion configured) are detected. In these cases the configuration defined in the broker attribute file is not used and a warning message is written to the broker's log file. Adapt your broker attribute file to avoid the message.
New SSL port default for Broker Administration Service	The default SSL port for the Broker Administration Service has changed from 57708 to 57808.
License file Handling	Under UNIX and Windows, the license file specified during installation is renamed by the Software AG Installer to "license.xml" and copied to the EntireX/config directory. The name and location of this file can no longer be changed as in earlier EntireX versions.

Changed Item	Description
EntireX Adapter license file handling	The license file specified in the Adapter license administration is renamed by the Adapter to 'license.entirex.xml' and copied to the IntegrationServer/instances/<instance_name>/config directory. The name and location of this file can no longer be changed as in earlier EntireX Adapter versions.
Support of 64-bit time values on z/OS	Broker attribute `PSTORE-VERSION` now has a new version 5 to support 64-bit time values on z/OS.
Enhancement to the Broker Agent	You can now specify the address of the network interface on which the Broker Agent will listen.
Broker Installation Verification	The broker verification programs bcoc (client) and bcos (server) are delivered in executable form (binary, load module) only.

Release 9.12

Added Item	Description
Increased platform support	EntireX now supports AIX 7.2.
Workbench enhancements	▪ Enhanced COBOL MPO support: For MPO groups based on a `REDEFINE` declaration, the MPO selector definition can be anywhere in the `DATA DIVISION` of the COBOL source: before, inside or after the MPO group. With the IMS MPP Message Interface (IMS Connect) you can now determine the position of an MPO selector using a fixed offset starting from the end of the message. You can also use an offset from the beginning of the message as in earlier versions. ▪ The IDL Extractor for Natural now supports Arabic shaping as well as multibyte character sets.
Brainstorm ideas	▪ Date and Time support for EntireX Adapter [02848]. The EntireX Adapter now supports user-defined formats for mapping the IDL data types Date and Time. ▪ Trace Utility enhancement [03277]. The EntireX Trace Utility has been enhanced: a date field has been added to the generated CSV file.
Command Central	The following operations on EntireX Broker have been added: ▪ Display Services ▪ Display Server Instances of a Service ▪ Stop Server Instance ▪ Create new EntireX Brokers ▪ Delete existing EntireX Brokers
RPC server	Enhanced COBOL MPO support for EntireX COBOL RPC servers (CICS, Batch, IMS BMP, Micro Focus, CICS ECI, IMS Connect). See Workbench enhancements above for details.

Added Item	Description
EntireX Adapter enhancements	- User-defined formats for mapping the IDL data types Date and Time are now supported. - You can now use mixed-case passwords for CICS ECI connections. - Enhanced COBOL MPO support. See Workbench enhancements above for details.
XML/SOAP Listener and high availability	The XML/SOAP Listener now supports persistent sockets, socket reconnect and security handling. This means it can now be used in high-availability scenarios where the EntireX Broker is load-balanced.
ICU custom conversion under z/OS	Custom conversion using ICU is now available under z/OS in addition to the support already provided under UNIX and Windows.

Removed Item	Replacement, if any
Direct SSL/TLS support for broker stubs under z/OS	Direct SSL/TLS support (using GSK) inside the broker stubs under z/OS has been dropped. We stongly recommend using IBM's Application Transparent Transport Layer Security (AT-TLS) instead.
Administration using System Management Hub	Administration with SMH is no longer supported. This also includes the batch interface argbatch and SNMP. The most important functionality is provided by Command Central. Minor features have been moved to the command line or were dropped.
Dynamic IDL/RPC parameters with IBM® MQ	webMethods EntireX RPC Server and Listener for IBM® MQ no longer support dynamic IDL/RPC parameters.

Removed Item	Replacement, if any
Microsoft Visual Studio 2010, 2012 or 2013	These versions are no longer supported. The following EntireX components support Microsoft Visual Studio version 2015: ▪ C Wrapper ▪ DCOM Wrapper ▪ Microsoft Visual Studio Wizard for .NET Wrapper

Changed Item	Description
Command Central	When using the command-line mode to get information from or to administer EntireX, the data representation for input and output of some commands has changed.
Authorization rules	Authorization rules for UNIX and Windows are no longer managed with System Management Hub. Instead, rules can be stored in an LDAP repository (as in earlier versions of EntireX) or in a new section of the Broker attribute file, `DEFAULTS=AUTHORIZATION-RULES`.
Broker attribute file validation	The validation of the broker attribute file has been thoroughly reworked. Inconsistent definitions may result in an unexpected error when you start your broker.
COBOL RPC Client and Server	The sources generated by the EntireX Workbench component COBOL Wrapper can be compiled by any compiler supported by the COBOL Wrapper: standard COBOL compiler, for example IBM Enterprise COBOL for z/OS 4.2 or 5.1.
Microsoft Visual Studio support	The following EntireX components support Microsoft Visual Studio version 2015: ▪ C Wrapper ▪ DCOM Wrapper ▪ Microsoft Visual Studio Wizard for .NET Wrapper Older versions of Microsoft Visual Studio (2010, 2012 or 2013) are no longer supported.

Changed Item	Description
EntireX Adapter	The mapping of MPO groups to Integration Server data structures and to the signature has been changed with this version to simplify the usage of the MPO construct in the Integration Server.
	Previously the alternatives of an MPO group (groups in the IDL file with the attribute CHOICE) were mapped to arrays with either zero array elements (unselected alternative) or one array element (selected alternative). This has been changed such that arrays are no longer used. Unselected alternatives are suppressed and thus not visible in the output pipeline. The selected alternative is directly represented in the output pipeline without the enclosing array.
	However, this enhancement means the new output signature is not compatible with existing Adapter services. This also affects the runtime behavior. If you use MPO groups, regenerate these Adapter services from the Designer and adapt the services that are using the new Adapter service to the changed output signature.
DIV Persistent Store Parameter Handling	Defining a DIV persistent store has been streamlined. New broker attributes have been introduced to replace format parameters.

Release 9.10

Added Item	Description
Increased platform support	EntireX now supports z/OS version 2.2 and Windows 10 Professional and Enterprise 64-bit editions.
Workbench enhancements	- COBOL program ID and Channel name can now be modified after extraction, using the COBOL Mapping Editor. - EntireX now uses Eclipse version 4.5.
EntireX Adapter	New connection type "COBOL Converter" introduced to convert IS data structures from/to a bye array representing the COBOL binary data.

Added Item	Description
Command Central	Enhanced support for EntireX Broker instances running under UNIX or Windows. You can now perform the following operations on EntireX Broker in addition to the operations supported in EntireX version 9.9: ▪ Configure Application Monitoring ▪ Configure EntireX Broker Persistent Store ▪ Configure EntireX Broker Security ▪ Enable and specify EntireX Broker Trace Level dynamically
KPIs for CPU time	New KPIs are available with Command and Information Services interface for showing amount of CPU time consumed since Broker start. CPU time can also be shown in the Software AG product Optimize for Infrastructure.
Support for Visual Studio 2012 and 2013	The EntireX .NET Wrapper Wizard now supports Microsoft Visual Studio version 2012 and 2013 in addition to version 2010 already supported.

Removed Item	Description
Windows 32-bit Operating Systems	Software AG no longer supports Windows 32-bit operating systems. However, the following EntireX components are supported for 32-bit applications on Windows 64-bit operating systems: ▪ EntireX Mini Runtime ▪ Transaction Object Editor of Broker ActiveX Control ▪ .NET Wrapper Runtime
Java Message Service	JMS support has been dropped.
Publish and Subscribe	The EntireX Broker communication model Publish and Subscribe is no longer supported. You therefore need to remove the broker attribute `PUBLISH-AND-SUBSCRIBE` from your broker attribute file, otherwise error ETBE0023 'Unknown attribute `PUBLISH-AND-SUBSCRIBE`' is returned.

Removed Item	Description
Swapping out New Units of Work	The ability to swap out new units of work that was provided in earlier EntireX versions is now no longer required. The corresponding broker attributes `SWAP-OUT-NEW-UOWS` and `MIN-UOW-CONVERSATIONS-IN-MEMORY` are no longer supported and will be ignored.
Library *broker.so*	Under UNIX, library broker.so has been replaced by library *libbroker.so*. Library *libbroker.so* was already delivered in earlier EntireX versions and is identical. Make sure you applications use only *libbroker.so*.
SMH Technical Information	The System Management Hub Technical Information Agent is no longer delivered.
SNMP	The SNMP (Simple Network Management Protocol) interface of the System Management Hub is no longer supported.

Deprecated Item	Description
Direct SSL/TLS Support for Broker Stubs under z/OS	Direct SSL/TLS support (using GSK) inside the broker stubs under z/OS will be dropped in the next version. We recommend using IBM's Application Transparent Transport Layer Security (AT-TLS) instead.
Administration using System Management Hub	Administration with SMH (including the batch interface `argbatch`) will be dropped in the next version of EntireX. The most important functionality will be provided by Command Central.
Encryption/decryption mechanism provided by EntireX Security	We strongly recommend using the Secure Sockets Layer/Transport Layer Security protocol.
Microsoft Visual Studio 2010, 2012, 2013	With the next version of EntireX, the following components will support Microsoft Visual Studio version 2015: ▪ C Wrapper ▪ DCOM Wrapper ▪ . NET Wrapper Wizard for Microsoft Visual Studio Older versions will no longer be supported.

Deprecated Item	Description
WebSphere MQ RPC Server and Listener Support for dynamic IDL/RPC parameters	

Changed Item	Description
Installation Packages	The EntireX installation packages have been streamlined and restructured: ▪ EntireX Broker can now stay running while runtime updates outside EntireX Broker are made. ▪ Administration and Monitoring functionality has been clearly separated from the runtime parts. ▪ Mini Runtime is now a separate installation package. ▪ Examples have been reworked and streamlined.
EntireX built with Visual Studio 2015	This version of EntireX was built with Microsoft Visual Studio 2015. When you install EntireX components, the necessary Microsoft Redistributable Files are also installed.
COBOL Wrapper, generic RPC service modules	The generic RPC service modules for the following interface types need to be generated with the EntireX Workbench. See COBOL Wrapper documentation for details. ▪ COBSRVID for CICS with standard linkage calling convention ▪ COBSRVIB for Batch with standard linkage calling convention

9.0   Added, Removed, Deprecated, or Changed Built-In Services

A release is listed in this section only if changes occurred in that release.

10.0 Added, Removed, Deprecated, or Changed Parameters

A release is listed in this section only if changes occurred in that release.

Release 10.3

Added Parameter	Description
ACI fields LONG-PASSWORD-LENGTH and LONG-NEWPASSWORD-LENGTH	New fields in ACI 12 to support long passwords and password phrases.

Changed Parameter	Description
Broker attribute ACI-CONVERSION.	Default value YES. This means ACI request and response strings of USTATUS are now converted with ICU. This attribute was undocumented in earlier EntireX versions and had default value NO. This meant that a translation user exit was used instead; this is no longer recommended.

Release 9.12

Added Parameter	Description
Multiple broker attributes under `DEFAULTS=AUTHORIZATION-RULES`	Use these attributes to define authorization rules in the broker attribute file.
Multiple security-specific attributes starting with `LDAP`	Use these attributes to define authorization rules stored in an LDAP repository.
Multiple broker attributes under `DEFAULTS=DIV`	DIV persistent store handling has been streamlined and these new attributes replace format parameters.
`SECURITY-SYSTEM`	Specifies whether authentication is performed against the local operating system or LDAP repository.

Removed Parameter	Description
Security-specific broker attributes `AUTHENTICATION-TYPE` and `AUTHORIZATIONRULE`	Replaced by new `DEFAULTS=AUTHORIZATION-RULES` section.
Multiple broker-specific attributes `SSL*` and `TCP*`, for example `SSL-RESTART`	Use the corresponding SSL-specific and TCP-specific attributes instead, for example `RESTART` in the attribute file section `DEFAULTS=SSL`.

11.0 Added, Removed, Deprecated, or Changed APIs

A release is listed in this section only if changes occurred in that release.

12.0 Copyright Information

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Visit the Tech Community website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

EXX-RM-108-20211015

webMethods Event Routing 10.11 Readme

October 2021

webMethods Event Routing is deprecated. Contact Software AG Global Support for information about a replacement product.

This file contains important information you must read before using webMethods Event Routing 10.11. You can find user documentation on the [Documentation website](#) or the [Tech Community website](#). At those locations, you can also find the suite-related information listed below.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0 Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0 Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

- EDA-2825
  Event Routing might not deliver events to the correct service group when a configuration change coincides with the first event being sent by the client application.
  Event Routing enables the administrator to define one or more services to which events can be sent. Services are grouped together as a set of one or more services. Each product runtime where Event Routing is used has a default service group. Any event types that are not explicitly associated with a custom service group are associated with the default group. However, if the administrator modifies the event type association configuration at the same time when a client application sends its first event of a particular event type, Event Routing might fail to deliver the events.
  Note: This issue does not occur if the client application has already sent events of the particular event type.
  As a workaround, make sure to stop the server runtime and restart it after the event type association configuration updates are completed.

3.0 Usage Notes

This section provides any additional information you need to work with the current release of this product.

- EDA-4167
  Event Routing is in compliance with the General Data Protection Regulation (GDPR) and does not store, collect, or process any personally identifiable information.

- If your event-driven environment contains applications that use the JMS functions of Integration Server (or the JMS protocol in general) to send and receive events of a particular EDA event type, and you create applications that use Event Routing to send and receive events of the same EDA event type, the respective JNDI entries might not be created correctly in the Universal Messaging server for the two application types to work.
  As a workaround, open a command line prompt in *Software AG_directory*\common\lib, and run the event-routing-jms-util.jar utility. This will ensure the JNDI entries and topics are created in your Universal Messaging server. For more information about how to run the utility, see the readme file in event-routing-jms-util.jar.

4.0 Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Release 10.3

- EDA_10.3_NERV_Fix1

Release 10.1

- EDA_10.1_ERSharedBundles_Fix5
- EDA_10.1_Designer_Fix2
- EDA_10.1_NERV_Fix5

Release 10.0

- EDA_10.0_Event Routing Platform Manager Plugin_Fix1

Release 9.12

- EDA_9.12_NERV_Fix11
- EDA_9.12_ERSharedBundles_Fix11
- EDA_9.12_Designer_Fix4
- EDA_9.12_Event Routing Platform Manager Plugin_Fix7

5.0 Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Release 10.3

- EDA-4142
  In Software AG Designer, creating an EDA event type from an existing Integration Server (IS) document type fails. When you select the "Use an existing IS document type" option in the Event Type Editor, Designer returns the following error: "A null service reference is not allowed". The issue occurs because a required software module is not active by default.

This issue is resolved.

Release 9.10

- EDA-2371
  A NullPointerException occurs during deployment of a NERV route bundle.
  If an invalid NERV route bundle is constructed and deployed to an EDA target server using webMethods Deployer, the deployment fails. The log file of the corresponding Software AG Platform Manager contains a NullPointerException.
  The issue is now fixed, and no NullPointerException occurs even if the deployed NERV bundle is invalid.

6.0   Documentation Changes

This section describes significant changes to the documentation in each release, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.3

- An HTML version of *"Communicating between Software AG Products Using Event Routing"* is available on the Software AG Empower website under the name *"Event Routing Webhelp"*.

7.0   Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 10.1

Added Item	Description
Encrypted event transmission	Event Routing supports the Universal Messaging NSPS protocol for secure communication. For more information, see the Event Routing product documentation.

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Removed Item	Description
NERV	NERV has been removed.

8.0   Copyright Information

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Visit the Tech Community website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

ER-RM-1011-20211015

Software AG Infrastructure 10.11 Readme

October 2021

This file contains important information you must read before using Software AG Infrastructure 10.11. You can find system requirements, user documentation, and installation and upgrade instructions on the Documentation website or the Tech Community website. At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0 Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the Empower website.

2.0 Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the Empower website.

- Common Landscape Asset Registry does not support Git LFS repositories when a Git installation is installed without the Git LFS plugin.
  To work around this issue, remove the Git installation or install the Git LFS plugin in addition to the Git installation.

- JConsole has some known issues when using a JMX connection to the CTP profile. The connection over SSL is not possible due to Java limitations. This capability is disabled for versions higher than 1.7.0_25 (removed due to vulnerabilities found: CVE-2013-2453, CVE-2013-2457).
  There is currently no workaround for this issue. This affects the following releases: 9.10, 9.12, 10.0, 10.1, 10.2, 10.3, 10.4, 10.5, and 10.7.

3.0 Usage Notes

This section provides any additional information you need to work with the current release of this product.

4.0 Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the Empower website for detailed information about fixes.

webMethods Metering

Release 10.11

- MTA_10.7_Fix2

Release 10.7

- MTA_10.7_Fix1

Release 10.5

- MTA_10.5_Fix4

Common Landscape Asset Registry

Release 10.11

- LAR_10.7_Fix1

- LAR_10.7_Designer_Fix1

Release 10.7

- LAR_10.5_Fix2

- LAR_10.5_Designer_Fix2

Release 10.5

- LAR_10.4_Fix2

- LAR_10.4_Designer_Fix2

Release 10.4

- LAR_10.3_Fix7

- LAR_10.3_Designer_Fix7

Release 10.3

- LAR_10.2_Fix1

Release 10.2

- LAR_10.1_Fix1

Common Service Container

Release 10.2

- SEC_10.1_Fix2

Software AG Runtime

Release 10.11

- OGI_10.7_Fix6
- OGI_10.7_Updater_Fix1
- OGI_10.7_Diagnostic_Fix1
- OGI_10.7_Migration_Fix1

Release 10.7

- OGI_10.7_Fix1

Release 10.5

- OGI_10.4_Fix1
- OGI_10.4_Migration_Fix1

Release 10.4

- OGI_10.3_Fix2
- OGI_10.3_Migration_Fix2

Release 10.3

- OGI_10.2_Fix3
- OGI_10.2_Migration_Fix1

Release 10.2

- OGI_10.1_Fix4
- OGI_10.1_Migration_Fix3
- OGI_10.1_Agent_Fix1

Release 10.1

- OGI_10.0_Fix1

Release 10.0

- OGI_9.10_Fix5

Release 9.12

- OGI_9.10_Fix3

Release 9.10

- OGI_9.9_Fix1

Software AG Security Infrastructure

Release 10.11

- SIN_10.7_Fix2

Release 10.7

- SIN_10.5_Fix4

Release 10.4

- SIN_10.3_Fix1

Release 10.2

- SIN_10.1_Fix3

Release 10.0

- SIN_9.9_Fix4

Release 9.10

- SIN_9.9_Fix1

Software AG Web Services Stack

Release 10.11

- WSS_10.7_Core_Fix2
- WSS_10.7_WebApp_Fix2
- WSS_10.7_OSGi_Fix2

Release 10.7

- WSS_10.5_Core_Fix5

- WSS_10.5_WebApp_Fix5

- WSS_10.5_OSGi_Fix5

Release 10.4

- WSS_10.3_Core_Fix3

- WSS_10.3_WebApp_Fix3

- WSS_10.3_OSGi_Fix3

Release 10.3

- WSS_10.2_Core_Fix2

- WSS_10.2_WebApp_Fix2

- WSS_10.2_OSGi_Fix2

Release 10.2

- WSS_10.1_Core_Fix3

- WSS_10.1_WebApp_Fix3

- WSS_10.1_OSGi_Fix3

Release 10.1

- WSS_10.0_Fix1

Release 10.0

- WSS_9.12_Fix2

Release 9.12

- WSS_9.10_Fix3

Release 9.10

- WSS_9.9_Fix10

5.0   Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Software AG Web Services Stack

Release 9.12

- WSSTACK- 2190
  With Web Services Stack, potential clickjacking security vulnerability is detected in the Web
  Services Stack administration pages.
  The issue is resolved.

- WSSTACK- 2499
  Software AG Web Services Stack has a potential security vulnerability regarding access to Web
  Services Stack web pages.
  The issue is resolved. The vulnerability has been addressed and the pages are no longer accessible.

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or
removal of product guides, online help, chapters, or other major content. A release is listed in this
section only if changes occurred in that release.

Release 10.7

- New topics, describing how to monitor product usage data and how to use the webMethods
  Metering Server on premise, are added in the "webMethods Metering" section of *Software AG
  Infrastructure Administrator's Guide*.

Release 10.5

- A new section, "webMethods Metering", is added to *Software AG Infrastructure Administrator's
  Guide*, describing how to configure and use the webMethods Metering feature.

- New topics, "Deleting sag-osgi Log Files" and "Configuring the Assertion Validity Interval", are
  added to *Software AG Infrastructure Administrator's Guide*.

Release 10.4

- The topic "Collecting Diagnostic Information About Software AG Products" in *Software AG
  Infrastructure Administrator's Guide* has been expanded with new content on how to collect
  diagnostic information about the OSGi profiles of Software AG products and edit the log
  configuration files for product profiles using the web user interface of the Software AG Diagnostic
  Tool.

Release 10.3

- A new chapter, "Software AG Runtime Logging", is added to *Software AG Infrastructure Administrator's Guide*.

- A new chapter, "Collecting Diagnostic Information About Software AG Products", is added to *Software AG Infrastructure Administrator's Guide*.

- *Software AG Infrastructure Administrator's Guide* is available as a web help on the Software AG Empower website.

Release 10.0

A new chapter, "Working with Software AG Common Landscape Asset Registry", is added to *Software AG Infrastructure Administrator's Guide*.

7.0   Terminology Changes

A release is listed in this section only if changes occurred in that release.

Release 10.4

Old Term	New Term
Software AG Diagnostic Information Collector	Software AG Diagnostic Tool

8.0   Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

webMethods Metering Server

Release 10.11

Added Item	Description
Apache Tomcat upgrade	Apache Tomcat is upgraded to version 8.5.63, which resolves known security vulnerabilities.

Software AG Security Infrastructure

Release 10.7

Added Item	Description
Bouncy Castle upgrade	Bouncy Castle is upgraded to version 1.65, which resolves known security vulnerabilities.
Spring Security upgrade	Spring Security is upgraded to version 5.3.4, which resolves known security vulnerabilities.
Spring Security SAML upgrade	Spring Security SAML is upgraded to version 1.0.10, which resolves known security vulnerabilities.

Release 10.5

Added Item	Description
Bouncy Castle upgrade	Bouncy Castle is upgraded to version 1.65, which resolves known security vulnerabilities.

Release 10.3

Deprecated Item	Replacement, if any
com.softwareag.security.jaas.login.ldap.LdapLoginModule	com.softwareag.security.sin.is.ldap.lm.LdapLoginModule

Added Item	Description
Bouncy Castle upgrade	Bouncy Castle is upgraded to version 1.65, which resolves known security vulnerabilities.

Release 10.1

Added Item	Description
Bouncy Castle upgrade	Bouncy Castle is upgraded to version 1.65, which resolves known security vulnerabilities.
Spring Security upgrade	Spring Security is upgraded to version 5.3.2, which resolves known security vulnerabilities.
Spring Security SAML upgrade	Spring Security SAML is upgraded to version 1.0.10, which resolves known security vulnerabilities.

Release 10.0

Removed Item	Replacement, if any
SSX authentication removed	

Release 9.10

Deprecated Item	Description
IAF	SSX authentication over IAF is deprecated.

Software AG Runtime

Release 10.11

Added Item	Description
Jboss. Xnio upgrade	Jboss Xnio is upgraded to version 3.8.4, which resolves known security vulnerabilities.
Bcprov upgrade	Bcprov is upgraded to version 1.6.8, which resolves known security vulnerabilities.
Log4j upgrade	Log4j is upgraded to version 3.8.4, which resolves known security vulnerabilities.

Release 10.7

Added Item	Description
Apache Tomcat upgrade	Apache Tomcat is upgraded to version 8.5.51, which resolves known security vulnerabilities.
Apache Shiro upgrade	Apache Shiro is upgraded to version 1.6.0, which resolves known security vulnerabilities.
International Components for Unicode upgrade	International Components for Unicode is upgraded to version 64.2.0, which resolves known security vulnerabilities.
Software AG Diagnostic Tool validation feature	The Installation Validator verifies the integrity of the Software AG Common Platform and the OSGI profiles of Software AG products. By default, it is enabled and runs as a part of the Diagnostic Tool. For more information about using the tool, see *Software AG Infrastructure Administrator's Guide*.

Release 10.5

Added Item	Description
Apache Tomcat upgrade	Apache Tomcat is upgraded to version 8.5.57, which resolves known security vulnerabilities.
Apache Shiro upgrade	Apache Shiro is upgraded to version 1.6.0, which resolves known security vulnerabilities.
International Components for Unicode upgrade	International Components for Unicode is upgraded to version 63.1.0, which resolves known security vulnerabilities.
Software AG Diagnostic Tool validation feature	The Installation Validator verifies the integrity of the Software AG Common Platform and the OSGI profiles of Software AG products. By default, it is enabled and runs as a part of the Diagnostic Tool. For more information about using the tool, see *Software AG Infrastructure Administrator's Guide*.

Release 10.4

Added Item	Description
Apache Tomcat upgrade	Apache Tomcat is upgraded to version 8.5.35, which resolves known security vulnerabilities.
Software AG Diagnostic Tool web user interface	You can collect diagnostic information about the OSGi profiles of Software AG products and edit the log configuration files for product profiles using the web user interface of the Diagnostic Tool. For more information about using the tool, see *Software AG Infrastructure Administrator's Guide*.

Removed Item	Replacement, if any
Web Services Stack (WSS) is not installed with Software AG Runtime by default.	
EDA is not installed with Software AG Runtime.	

Release 10.3

Added Item	Description
Diagnostic Information Collector Tool	Collects diagnostic information about the Software AG Common Platform and the OSGi profiles of Software AG products. The tool collects and archives files for troubleshooting from the Software AG installation directory and the Software AG Update Manager directory. It also enables you to edit the log configuration file for each profile. For more information about using the tool, see *Software AG Infrastructure Administrator's Guide*.
Apache Tomcat upgrade	Apache Tomcat is upgraded to version 8.5.57, which resolves known security vulnerabilities.
Apache Shiro upgrade	Apache Shiro is upgraded to version 1.6.0, which resolves known security vulnerabilities.
Software AG Diagnostic Tool validation feature	The Installation Validator verifies the integrity of the Software AG Common Platform and the OSGI profiles of Software AG products. By default, it is enabled and runs as a part of the Diagnostic Tool. For more information about using the tool, see *Software AG Infrastructure Administrator's Guide*.

Release 10.2

Added Item	Description
Tomcat Upgrade	Apache Tomcat is upgraded to version 8.5.23, which resolves known security vulnerabilities.

Release 10.1

Added Item	Description
Apache Tomcat upgrade	Apache Tomcat is upgraded to version 8.5.57, which resolves known security vulnerabilities.
Apache Shiro upgrade	Apache Shiro is upgraded to version 1.6.0, which resolves known security vulnerabilities.

Release 10.0

Added Item	Description
Tomcat Upgrade	Apache Tomcat is upgraded to version 8.5.5, which resolves known security vulnerabilities.
Gemini Web Upgrade	Gemini Web is upgraded to version 3.0.0.RC2, which resolves known issues.

Release 9.12

Added Item	Description
Tomcat Upgrade	Apache Tomcat is upgraded to version 7.0.103, which resolves known security vulnerabilities.

Software AG Web Services Stack

Release 10.11

Added Item	Description
XmlBeans upgrade	XmlBeans is upgraded to version 3.1.0, which resolves known security vulnerabilities.

Release 10.3

Added Item	Description
AES128-GCM Encryption Algorithm	Software AG Web Services Stack supports the AES128-GCM encryption algorithm.

Release 9.12

Changed Item	Description
Spring Upgrade	Spring Framework is upgraded to version 3.2.17, which resolves known security vulnerabilities.

9.0   Added, Removed, Deprecated, or Changed Built-In Services

A release is listed in this section only if changes occurred in that release.

Common Landscape Asset Registry

Release 9.12

Added Service	Description
Common Landscape Asset Registry built-in services	This is the initial release. All services are effectively added.

Common Service Container

Release 9.12

Added Service	Description
Common Service Container built-in services	This is the initial release. All services are effectively added.

10.0 Added, Removed, Deprecated, or Changed Parameters

A release is listed in this section only if changes occurred in that release.

Software AG Runtime

Release 10.4

Changed Parameter	Description
Configuration watchdog	The configuration watchdog is no longer configured via a property file. A system property is provided to turn on and off the periodic reload of configuration files.

Common Landscape Asset Registry

Release 9.12

Added Parameter	Description
Common Landscape Asset Registry configuration parameters	This is the initial release. All configuration parameters are effectively added.

Common Service Container

Release 9.12

Added Parameter	Description
Common Service Container configuration parameters	This is the initial release. All configuration parameters are effectively added.

11.0 Added, Removed, Deprecated, or Changed APIs

A release is listed in this section only if changes occurred in that release.

Common Landscape Asset Registry

Release 10.3

Added API	Description
Common Landscape Asset Registry Transformer APIs	APIs that provide an easily extensible way of modifying binary and metadata assets.

Release 10.2

Added API	Description
Common Landscape Asset Registry Roll back APIs	API that allows roll back of assets in a repository.
Common Landscape Asset Registry Promotion APIs	API that allows promotion of assets between repositories.

Release 9.12

Added API	Description
Common Landscape Asset Registry APIs	This is the initial release. All APIs are effectively added.

Common Service Container

Release 9.12

Added API	Description
Common Service Container APIs	This is the initial release. All APIs are effectively added.

Release 10.2

Added Parameter	Description
Audit log APIs	API that provides audit logging functionality.

12.0 Copyright Information

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13.0 Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the Tech Community website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

INFRA-RM-1011-20211015

Software AG Installer Readme

October 2021

This file contains important information you must read before using the Software AG Installer October 2021 release. You can find system requirements, user documentation, and installation and upgrade instructions on the [Documentation website](#) or the [TECHcommunity website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0　Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the Empower website.

- Always read the Critical Requirements and Recommendations chapter in *Using the Software AG Installer* before installing products.

- You might experience download issues while using the Software Installer. For suggestions on diagnosing and resolving the issues, see *Using the Software AG Installer*.

- Software AG strongly recommends that you create installation images of your products and store them on your internal network. Create an image for each operating system on which you plan to install that is covered by your license agreement. Storing images enables you to ensure consistency across installations over time; the installer provides only the latest product releases, while installation images contain the product releases you download into them. In addition, installing from images helps you reduce WAN traffic and improve installation speeds. For instructions on creating images, see *Using the Software AG Installer*.

2.0　Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the Empower website.

- WIR-5418
  UAC dialog box that prompts for administrator privilege settings is minimized in taskbar
  When you install on a Windows system using the exe, a UAC dialog box may display that prompts administrator privileges. However, the dialog box minimizes to the taskbar instead of displaying on top of other windows.
  The workaround is to click the taskbar to maximize the window and grant administrative privileges.

- WIR-7037
  Download fails and installer log shows warning about password-protected Zip files
  The installation files for some Software AG products contain password-protected Zip files that are used for MashZone. These products are Application Monitor Data Collector, Active File Transfer, Business Event Server, CloudStreams, MashZone, and OneData. If you have selected any of these products for installation, a warning that a Zip file was blocked due to security policy settings might be written to the installation log file. In some circumstances, a company's firewall or security application policy settings may notice this warning and block downloading of those products from the Software AG Software Download Center, causing the installation download to fail.
  The workaround is to restart the installer, set logging to verbose, and select the products to install again. If you get the same failure, search the log file for the warning. If you find the warning,

deselect the products listed above and finish the installation of any other products. Then contact Software AG Global Support to request an installation image of the blocked products.

- WIR-13632
  Cannot create Installer image with fixes on MacOS for Windows.
  When you create an Installer image on MacOS, and the image contains fixes for a platform different from MacOS, the operation fails.
  The workaround is to create the Installer image on a Windows platform.

3.0 Usage Notes

This section provides any additional information you need to work with the current release of this product.

None.

4.0 Other Resolved Issues

This section lists the issues that were resolved in each release. A release is listed in this section only if changes occurred in that release.

Release 10.11

- WIR-13105
  Unable to paste values into the text fields using Mac's Command V shortcut keys.

  Installing products on Mac using the " SoftwareAGInstaller20191216-MACOSX.dmg" version of SAG installer, it is not able to paste values into the text fields using Mac's Command V short cut keys, which are the standard for the US Mac keyboards.

  It works if you apply Control V, but not on the standard Mac short cut keys for copying and pasting.

  The issue is resolved.

Release 10.7

- WIR-12359
  Applinx installation is missing a "Location of previous Applinx installation" browse button.

  Installing Applinx using the "SoftwareAGInstaller20191015-w64.exe" version of SAG installer (Applinx Server), there is a "Migrate Previous Applinx Data" checkbox and a field to select the

previous Applinx installation folder.

The "Location of previous Applinx installation" field is missing a "Browse" button.

The issue is resolved.

Release 10.5

- WIR-12138
  The installation fails when SAG Installer is started with "-console -readImage –editScript" options

  When you start an installation with "-console -readImage –editScript" options, it fails with a NullPointerException.

  This issue is resolved.

- WIR-12034
  An unexpected error occurs when the ZFUSION_INSTALL_ARGS environment variable is used

  When the following environment variable – "set ZFUSION_INSTALL_ARGS= -readScript "<path>\script.txt" " is set and the command is not escaped, an error occurs.

  This issue is resolved.

- WIR-11712
  Unable to connect to Empower when using proxy settings.

  Installer client is unable to establish a secure connection to Empower when using proxy settings.

  The issue is resolved.

Release 10.2

WIR-10860
Installer does not list all products on Azure RHEL 7
When you install on an Azure RHEL 7 system, the installer shows the first 1-7 products and then asks you to press the "+" key to view 11-19 product list. The 8-10 products are missing.
This issue has been resolved.

Release 10.1

- WIR-10287
  Installation from image aborts on SPARC systems
  On Solaris 11.3 SPARC systems, installation from an image can abort with a Java crash (SIGSEGV in

class 'installBuildModule'). This is a SPARC system bug.

Until Oracle provides a fix, the workaround is to use this Java option:

-XX:CompileCommand="exclude,com/wm/distman/custominstall/
CopyFilesProgressPanel.installBuildModule"

Alternatively you can pass this option with a file .hotspot_compiler in the current working
directory that has this content:

exclude com/wm/distman/custominstall/CopyFilesProgressPanel installBuildModule

Release 10.0

▪ WIR-9963, MWS-19466
UNIX daemon is not registered when installing My webMethods Server on AIX
When installing My webMethods Server on an AIX system, you chose the option 'Register UNIX
daemon for automatic start up,' but the daemon was not registered, and you received this error
from the mkitab command:

[daemon.sh] /usr/sbin/mkitab "sag5mws912_default_5:235:wait:/etc/sag5mws912_default_5 start ..."
(1)

The root cause is that the init-script name sag5mws912_default_5 is more than 14 characters long.
The workaround is to use the daemon.sh tool and register the My webMethods Server daemon
manually with a shorter base name, as shown in the following example where the base name is
passed with -n mws912:

/opt/softwareag/common/bin/daemon.sh -f
/opt/softwareag/profiles/MWS_default/bin/sagmws912_default_1 -n mws912
/usr/sbin/rmitab: 0481-204 The ident field is not correct.
Usage: /usr/sbin/rmitab "ident"
[daemon.sh] ERROR: /usr/sbin/rmitab sag1mws912_default_1 failed (1)
[daemon.sh] /etc/sag1mws912_default_1 removed (ok)
[daemon.sh] Created /etc/sag1mws912 (ok)
[daemon.sh] chmod 775 /etc/sag1mws912 (ok)
[daemon.sh] /usr/sbin/mkitab "sag1mws912:235:wait:/etc/sag1mws912 start ..." (ok)

Note: The output shows the message "The indent field is not correct." with the rmkitab command.
You can ignore this message.

If the mkitab command shows no ERROR like in the example, then you have successfully registered
the daemon on AIX.

▪ WIR-9986
My webMethods Server does not register Windows service or UNIX daemon correctly.
When installing on Windows, the installer will not create a service even if the "Register Windows
service/UNIX daemon" check box is selected. The workaround is to run mws.bat to register the
Windows service.

When installing on UNIX, the installer will always try to create a daemon even if the check box is cleared. This means that if the sudo password is provided, a daemon will always be registered. If the sudo password is not provided, the installer will add a script line that will be executed when afterInstallAsRoot.sh is run later. The workaround is to use the daemon.sh command line tool to unregister the UNIX daemon. For instructions, see *Installing Software AG Products*.

▪ WIR-9975

Product daemons do not start automatically on Solaris.

During installation on a Solaris system, you chose the daemon registration option for products that offer that option. However, product daemons are not starting automatically with the Multi User Runlevel (Runlevel 2). The root cause is that the common/bin/daemon.sh does not include Runlevel 2 by default.

The workaround is to use the daemon.sh tool to register the daemons again while specifying the intended runlevels with option '-N', as shown in the following example for Platform Manager:

1. Change to root user:
   $ su root # or sudo sh
   # cd /opt/softwareag/common/bin

2. List the init-script and rc-script names of all registered daemons:
   # ./daemon.sh -L
   /etc/init.d/sag5spm912 /opt/softwareag/profiles/SPM/bin/sagspm912

3. Register the daemon again for Runlevels 2 and 3, using the rc-script names:
   # cd /opt/softwareag/common/bin
   # ./daemon.sh -N 2,3 -f /opt/softwareag/profiles/SPM/bin/sagspm912

Release 9.12

▪ WIR-9462

Cannot create image generation script

When trying to create an image generation script (select Create script and For image generation on Scripts tab, select Create image on Images tab), the installer displays the message "You cannot create a script and create an image at the same time."

The workaround for UNIX is to create the image generation script in console mode. For Windows, there is no workaround.

The issue has been resolved.

Release 9.10

▪ WIR-8895

Products cannot access JDK

When creating a script and installing on local machine, the path to the installer-provided JDK is not set, and products cannot access it.

This issue has been resolved.

5.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

6.0   Terminology Changes

A release is listed in this section only if changes occurred in that release.

7.0   Added, Removed, Deprecated, or Changed Items

This section lists features, functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

8.0   Added, Removed, Deprecated, or Changed APIs

A release is listed in this section only if changes occurred in that release.

Release 10.11

Removed API	Description
Software AG Installer Docker API	This API is not supported for release 10.11.
Added API	**Description**
Software AG Installer Container Image API	This API is added with release 10.11 and used to create container images with Software AG Installer.

9.0   Copyright Information

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10.0 Support

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Visit the TECHcommunity website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

INSTLR-RM-20211015

webMethods Integration Cloud 7.0.0 Readme

April 2021

This file contains important information you must read before using webMethods Integration Cloud 7.0.0. You can find system requirements and user documentation on the [Documentation website](#) or the [Tech Community website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0   Critical Information

This section lists any critical information for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the Empower website.

None

2.0   Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the Empower website.

▪ UHM-973
In the End-to-End Monitoring application, for a complex integration, where one SOAP API or REST API calls another SOAP API, only the starting point of the trace is captured. For the same complex integration, Integration Cloud shows both the traces as part of its monitoring feature.
Note: The same limitation does not occur when REST APIs are called from a SOAP API or another REST API.

▪ UHM-434
In the End-to-End Monitoring application, when you perform a search using multiple search characters, it may not show the correct results in some cases.

▪ UHM-1015
When an Integration execution gets timed out, webMethods Integration Cloud does not store the record. However, this is tracked by End-to-End Monitoring. Due to this, when a user clicks on the *More details* link from the component details page, it opens a blank page.

▪ UHM-970
In End-to-End Monitoring, API Gateway traces without a transactional event are not getting traced.

3.0   Usage Notes

This section provides any additional information you need to work with the current release of webMethods Integration Cloud.

▪ Information on major releases, hotfixes, and patch releases including the latest statistics on cloud system availability, system performance, and security are available on the Cloud Trust Center at https://trust.softwareag.com/integrationcloud/calendar/.

▪ See the *Supported Browsers* section in the *System Requirements for Software AG Products* document available on the Software AG Documentation website at https://documentation.softwareag.com for information on the supported browsers.

- webMethods Integration Cloud is best experienced using Google Chrome browser or Mozilla Firefox. Some features may not work if you are using Microsoft Internet Explorer 10.0 or earlier versions.

- After an Integration Cloud upgrade, the older version browser's cache and cookies are not cleared automatically. This may lead to incorrect display of page content. Ensure that you clear the browser's cache manually after every upgrade, and then log in to Integration Cloud.

- The Stored Procedure operation does not support the Input Field Type as java.sql.Array for the ARRAY JDBC Type. Use the Input Field Type as java.lang.Object for ARRAY JDBC Type.

4.0   Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the released fixes. A release is listed in this section only if changes occurred in that release.

Release 7.0.0

- LIP-15010
  Access Token is not passed dynamically to the connection.
  This issue is resolved. Now dynamic connection will work properly with the access token.

- WST-4989
  The Listener error handling capability does not work.
  This issue is resolved. Listener error handling scenario is now handled properly.

- LIP-14998
  Listener issue on Integration Cloud.
  This issue is resolved. Listener with the same name is now allowed in higher stages.

- CLTS-13446
  Listing page is taking a lot of time.
  This issue is resolved. The Monitor page with more data will now load faster.

- CLTS-13392
  Add thread-based counter to break out of running service wait.
  This issue is resolved. When package reload happens during long running integrations, other integrations will now execute properly.

- PIE-66341
  Rest API calls are failing in production.
  This issue is resolved. Rest APIs will now work properly with the response having date time content type.

- LIP-14843
  Reverting changes in Live stage.
  This issue is resolved. Rest APIs will now work properly with document has string data type with constraint integer.

- LIP-14786
  Cannot edit Integration Cloud Access Profiles.
  This issue is resolved. User will now be able to edit the API Management check boxes.

- LIP-14787
  For Software AG Cloud authentication during API invocation, Integration Cloud sends the sub domain while sending the authentication request to Software AG Cloud.
  This issue is resolved. Now the realm name is sent to Software AG Cloud.

- LIP-14806
Description: Not able to make API requests after the Integration Cloud update.
This issue is resolved. The custom user access profile will now not get updated, while running the integration using API.

- WST-5187
Error while updating the communication between Cloud Gateway and Integration Cloud.
This issue is resolved. If there is a valid Access Token configured even with a wrong refresh configuration, the transaction will now work.

- LIP-14685
Performance issue on exposed API.
This issue is resolved. Caching mechanism has been used to solve the performance issue.

- LIP-14689
Issue in auditing where the context prints with a wrong username.
This issue is resolved. In logs, the username will now print properly with the tenantid.

- LIP-14715
Not able to connect to SFTP server from Integration Cloud using diffie-hellman-group-exchange-sha1.
This issue is resolved. Added extra ciphers watt.ssh.jsch.ciphers to solve the issue.

- LIP-14711
Mapping error in Integration Cloud.
This issue is resolved. Mapping will now show properly with the input mapped to multiple document reference fields.

- LIP-14729
Error appears while listing projects.
This issue is resolved. Error will now not appear when listing the projects.

- LIP-14809
Not able to create a new integration.
This issue is resolved. User will now be able to create an integration with custom access profile without the default project.

- LIP-15113
Input Validation issue
This issue is resolved. In the copy reference dialogue, the skip functionality will now work properly. If we click Skip, references shown in the user interface dialogue will not copy to the higher stages.

- PIE-61708
While copying Document Reference from one folder to other, it is cloning the wrong target inside

the document reference.
This issue is resolved. A SOAP Application which has a document reference, is now working properly after pulling it to the higher stage.

Release 6.6.0

- JDB-2215
  Database Application updates the Input/Output names incorrectly, when you add or delete the table columns or data fields while creating the database operations.
  Workaround: Verify and update the Input/Output names whenever you add or delete the table columns or data fields.

- PIE-58987
  The permissions or other properties of a service within a package are not updated upon redeployment to Cloud.
  This issue is resolved.

- UHM-973
  In the End-to-End Monitoring application, for a complex integration, where one SOAP API or REST API calls another SOAP API, only the starting point of the trace is captured. For the same complex integration, Integration Cloud shows both the traces as part of its monitoring feature.
  Note: The same limitation does not occur when REST APIs are called from a SOAP API or another REST API.

- JDB-2583
  JDBC Adapter database connections are not getting automatically enabled after copying and upgrading Solutions in Cloud Deployment.
  Workaround: Ensure that proper package dependency is set between the package containing driver jars and packages containing adapter connections, and then enable the adapter connections manually.

Release 6.1.0

- UHM-434
  In the End-to-End Monitoring application, when you perform a search using multiple search characters, it may not show the correct results in some cases.

- UHM-1015
  When an Integration execution gets timed out, webMethods Integration Cloud does not store the record. However, this is tracked by End-to-End Monitoring. Due to this, when a user clicks on the *More details* link from the component details page, it opens a blank page.

- ▪ LIP-12868
  Integrations created using a REST Application or a SOAP Application cannot be exported or imported.
  This issue is resolved.

- ▪ LIP-12853
  Integrations created using a REST Application cannot be copied across projects.
  This issue is resolved.

5.0   Documentation Changes

Significant documentation changes for a release such as the addition, relocation, or removal of chapters or other major content are mentioned in the [Added, Removed, Deprecated, or Changed Items](#) section.

6.0   Terminology Changes

Terminology changes, if applicable for a release, are mentioned in the [Added, Removed, Deprecated, or Changed Items](#) section.

7.0   Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 7.0.0

Added Item	Description

Integration Cloud

Ability to save the input values or load already saved input values	When you run an integration, you can save the input values or load already saved input values using the *Save Input Values* and *Load Input Values* options respectively.

Providing an input file is useful when an integration requires inputs where the entries required are many in number. When you save an input, it saves the value in an XML file. You can save this XML file in your system and use it to load the input values when running the integrations. You can also edit this XML file using any text editor and update the values before you upload this file as an input. When you upload the file, it shows the file name beside the *Load Input Values* option.

Note: Click *Clear* to remove any input values before you select the *Load Input Values* option. If you want to load input values for document references, expand the tree nodes and then select the *Load Input Values* option.

Added Item	Description
Support for error handling	You can now handle HTTP errors by selecting the *Error Response* option. If this option is selected while creating a REST resource, then during the execution of an operation, if you receive a corresponding status code as response from the back end, an exception appears.

Add Response Body

HTTP Code *	Type HTTP codes, E.g. 200, 201 or 200-299
Content Type *	application/json
Document Type *	Select or Type
ERROR-RESPONSE	☐

	For example, if a REST resource is created with status HTTPs code as 300-500 identified as error response, then during execution, if you receive any response from 300-500, the operation execution is considered as failure.
Performance improvements	In this release, a performance improvement of 40 percent is seen on integration execution throughput. Also, further performance improvement on the Monitor user interface is observed.

End to End Monitoring

Environment groups and stages	You can now get a granular view of the transaction data by filtering the transactions based on the environment group and the related stages. Customers implement their solutions with Software AG Cloud products spanning multiple environments (one product installed in each environment) as well as each environment having stages like Development, Test, and Production. This feature helps in providing a more granular view of the transaction data by allowing you to filter the transactions based on the environment group and the related stages. Using the environment group, you can view the transactions that span across more than one environment. Using the stages filter, you can further filter the transaction data based on different stages the environments of the selected environment group are mapped with.

Added Item	Description

Integration Cloud

Support for sharing assets across projects

You can now share integrations and document types across projects by clicking the vertical ellipses icon available on a project and selecting the *Share Assets* option. Asset sharing allows you to use the same assets in other projects.

Project
1 Integrations

▶

⋮

🗑 Delete
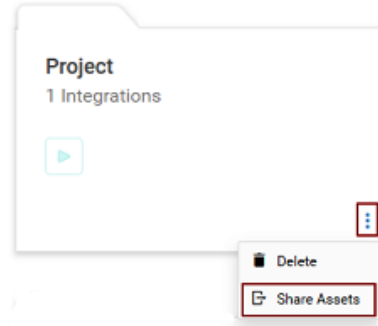
🕞 Share Assets

You can share assets with other projects only in the *Development* stage and if you are assigned to the *Administrator* Access Profile.

Capability to mark Integrations as Completed with Errors, if errors are caught with try-catch blocks

You can enable this option in the new *Settings > Preferences > Tenant Preferences* section. Select this option to view on-screen messages when an exception occurs while executing an operation or a service within an integration using a Try-Catch block. When this option is enabled, if an exception occurs within a Try block, then the end result of the integration execution is shown as completed with errors. Even if the error is handled in the Catch block, the integration is shown as completed with errors. When this option is not selected, if an exception occurs within a Try block, then the end result of the integration execution is shown as integration completed successfully.

Added Item	Description
Support for smart mapping recommendations	Smart mapping provides you with intelligent mapping recommendations regarding which fields should be mapped in the pipeline. You can enable the smart mapping functionality by selecting the *Settings > Preferences > Publish Integration Mappings to Recommendations Engine* option.
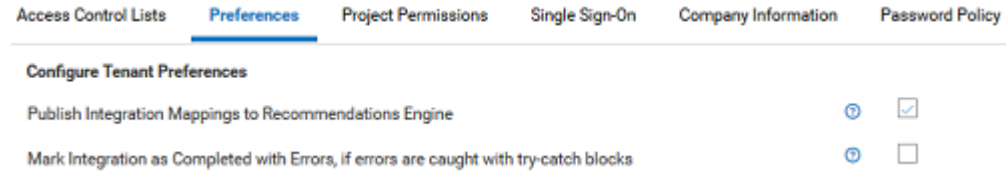
A Machine Learning (ML) algorithm is applied to provide the suggestions. This algorithm learns from the mappings you create and automatically provides suggestions to map similar fields.

If you do not select this option, you will not see the *Recommend Mappings* check box while mapping the fields in the pipeline. For all trial tenants, the mapping data is collected by default.

Note: For paid tenants, only an Admin user who has access profile ID 4 has the permission to enable this feature. For trial tenants and Free Forever Edition, this is always enabled and cannot be changed.

Support for creating a document type with optional fields	In earlier releases, when you loaded an XML or a JSON file to create a document type from scratch, by default, all the fields were marked as mandatory. In this release, after you click the *Load JSON* or *Load XML* options, you can use the *Required* option to mark all the fields as optional or mandatory. By default, all the fields are marked as mandatory. If a field is mandatory, you must pass a value for that field when running an Integration.

Added Item	Description
New Services	The following *MIME* services are now available in Integration Cloud. You can use MIME services to create MIME messages and extract information from MIME messages. • addBodyPart • addMimeHeader • createMimeData • getBodyPartContent • getBodyPartHeader • getContentType • getEnvelopeStream • getMimeHeader • getNumParts • getPrimaryContentType • getSubContentType • mergeHeaderAndBody
OAuth 2.0 scope management	In earlier releases, while creating or updating a scope, exposed Integrations and REST Resources available only in the *Default* project were available for selection in the *Services* panel. In this release, the Services panel displays the exposed integrations and REST Resources available in *all projects*, that is, in custom projects and in the Default project in the selected stage.
Monitor page enhancements	You can now restart or resume an integration execution from the *Monitor > Dashboard* page. You can also restart or resume an integration execution from the *Monitor > Execution Results* page and from the *Last 5 Execution Results* page.
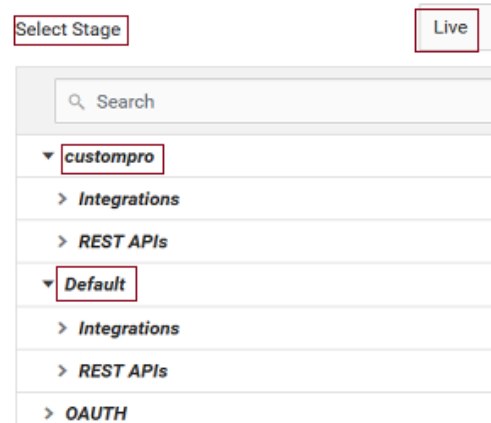
Added Item	Description
Parameters page changes	The *Active* option is now removed from the *Parameters* page while creating an operation for a REST Application to improve the usability. All parameters are now provided as part of the input signature.
Support for encoding of URI context parameters in custom REST Applications	Integration Cloud now supports encoding of URI context parameters. For example, space is now encoded with *%20*: POST /pubapi/v1/fs-content/Shared/test2/Egnyte%20Logo.png and # is encoded with *%23*: POST /pubapi/v1/fs-content/Shared/test2/Egnyte%23Logo.png
Support for executing or debugging integrations generated from APIs	You can now run and debug integrations generated from SOAP APIs using WSDL and REST APIs using Swagger.
Performance improvement	In this release, a performance improvement of 70 percent is observed on integration execution throughput.
Troubleshooting tips on Account configurations	The Help set now contains a new section, which provides troubleshooting tips to some of the most common questions on Account configurations.

Added Item	Description
Dedicated infrastructure support for hybrid integration scenarios	Performance, scalability, and availability of on-premises connectivity for hybrid integration scenarios have now been enhanced by having dedicated Software AG Universal Messaging (UM) nodes for each tenant. A tenant can be associated with dedicated UMs based on the license. Contact Software AG Global Support for assistance in setting up the dedicated hybrid infrastructure. If you are using hybrid connectivity and when you update the on-premises settings for the first time after the v6.6.0 upgrade, restart the on-premises webMethods Integration Server to resume hybrid connectivity. If you have whitelisted the Cloud UM hostname or IP in the firewall, then you have to also whitelist the new UM hostname and IP along with the old ones. See the following table for information on the IP addresses.

Zones	NAT Gateway IP Addresses	Hybrid Connectivity IP Addresses	UM Host Name	UM IP Addresses
US, Oregon	52.39.87.1 52.39.97.85	um.webmethodscloud.com 34.214.4.79 52.24.188.207	um-01-142ebc71-a.webmethodscloud.com um-02-142ebc71-a.webmethodscloud.com um-03-142ebc71-a.webmethodscloud.com	52.27.56.188 52.27.70.226 52.27.83.194
DE, Germany	35.157.214.174 52.57.210.55	um.webmethodscloud.de 18.159.91.233 18.158.241.179	um-01-e8c55c80-a.webmethodscloud.de um-02-e8c55c80-b.webmethodscloud.de um-03-e8c55c80-a.webmethodscloud.de	52.57.68.150 52.28.72.223 52.59.84.12
EU, Ireland	52.209.82.145 52.16.34.106	um.webmethodscloud.eu 54.228.75.61 63.33.112.226	um-01-76de9912-a.webmethodscloud.eu um-02-76de9912-a.webmethodscloud.eu um-03-76de9912-a.webmethodscloud.eu	52.212.8.149 52.51.244.127 52.50.237.197

Support for using the field element inside an array list	While selecting a field for the conditions, that is, while using the If, or Loop, or Switch statements, you can now click on the *Select Field* expression and choose a field in the *Pipeline Data* dialog box to add its path to the condition. If you want to use the field element inside an array list, select the *Add Index* option to add the index and use the indexed field path.
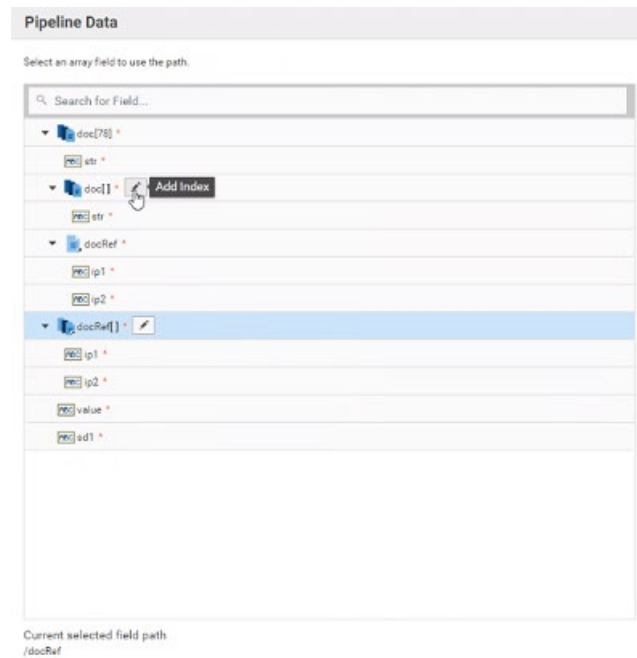
While selecting a field for the iterations, that is, while using the *for-each* statements, you can click now on the *Select Field* expression and choose an array in the *Pipeline Data* dialog box to add its path to the iteration. If you want to use the array element inside the array list, select the *Add Index* option to add the index and use the indexed field path.

End-to-End Monitoring

Dashboard updates	End-to-End Monitoring introduces a new dashboard. The warning status is removed. The *Overall* graph provides an overview of all the transactions that have succeeded or failed. Also, the widget *Top 5 Rules Violated* is now represented as a Pi chart instead of a Bar graph.

More Details link	The *More Details* link now shows the product-specific details for the products involved in a cross-product transaction even if the tenant for that product was configured in a different domain or a custom domain. Previously, the *More Details* link would provide product-specific details only if all the products involved in the cross-product transaction were configured in the same domain.

Release 6.1.0

Added Item	Description
	Integration Cloud
Integration workspace enhancements	• On the *Integrations* page, you can now click the 🔲 icon to see the details of an Integration, click the ellipsis icon ⋮ to delete or copy an Integration, point to the 📅 icon to view the scheduled status, scheduled type and when is the next scheduled execution date and time, and to the 🌐 icon to view the request URL.
	• The look and feel of the blocks have been enhanced and the size of the blocks reduced to increase the work space.
	• You can now copy a block from an integration and paste that block in another integration across projects. Currently, blocks cannot be pasted across different browsers or across domains.
	• The ≡ icon has been removed from the blocks. The *Copy*, *Delete*, *Comment*, *Disable*, and *Duplicate* options are now available by right-clicking on a block.
	• The *Modify Mapping* ( ) option now opens the pipeline data window for mapping. Further, mapping arrows have been removed from the source and target fields in the mapping window.

Added Item	Description
Monitor page enhancements	• On the *Dashboard* page, you can now filter the execution details of Integrations based on the invocation channel, for example, Scheduler, User Interface, HTTP Interface, REST APIs, SOAP APIs, and Listeners. The in-progress executions can also be filtered based on the invocation channels. • You can now terminate multiple in-progress integration executions from the Dashboard by selecting the in-progress integration executions and clicking *Terminate*. • On the *Execution Results* page, you can now select the Invocation channel for which you want to view the integration execution results. You can select All Invocations, All Projects, and All Integrations, if you want to view the execution details of Integrations based on all the invocation channels, for all integrations, and in all projects in the active stage, for the specified time period. • The performance and responsiveness of the Monitor screen to high volume of data have been enhanced.
Flat File enhancements	Integration Cloud now supports flat files that do not have a record identifier. You can select the *Yes* or *No* options on the *Flat File Definition* page depending on whether the flat file contains or do not contain a record identifier. The following options will appear on the Flat File Definition page if you select *Yes*: • *Start at position* - Identifies the character position in the record (counting from zero) where the record identifier is located. • *Nth field* - Identifies the field in the record (counting from zero) that contains the identifier.

Added Item	Description
Support for changing the Authentication Type	While editing an Account in any stage, you can now select a different *Authentication Type* without impacting any integrations. So if an integration is using an Account with a specified Authentication Type, the integration will now run with the changed Account configuration. Further, while editing or creating an Integration, after you select the Operation, the Account field now lists all the Accounts that are supported for the execution of the selected Operation. While testing the Operation, you can select another Account created with a different Authentication Type, if the Account is supported for the execution of the selected Operation.
Support for clearing storage locks	If the environment goes down while an integration is running, the lock taken on the integration will not be automatically removed immediately. So, any scheduled executions for the same integration will be skipped. You can now remove the locks from the *Monitor > Clear Storage Locks* page.
SOAP API enhancements	Integration Cloud now allows you to export and import SOAP APIs.

Added Item	Description
Recipes page enhancements	- You can now search a recipe by the recipe name. - If the main integration created out of a recipe does not have Applications but has sub-integrations, and if the sub-integrations have Applications, then the Applications are now pulled from the sub-integrations. The logos of the Applications in the sub-integrations will now appear on the Recipes page. - The recipe configuration page now shows only the Applications and not the Operations for each Application. Further, now you do not have to configure each integration and sub-integration individually. - If you have already used a recipe, Integration Cloud now prompts you if an integration with the same name already exists in your selected project, and whether you want to overwrite the references and changes made in the existing integration.
New Account Configuration fields	You can now set the following fields while configuring an Account: *Block Timeout* is the number of milliseconds that Integration Cloud will wait to obtain a connection with the SaaS provider before the connection times out and returns an error. *Expire Timeout* is the number of milliseconds that an inactive connection can remain in the pool before it is closed and removed from the pool, if connection pooling is enabled. *Idle Timeout* interval in milliseconds defines the interval for which a connection will be kept alive if it is not in use. *Keep Alive Interval* in milliseconds defines the interval for which a connection will be kept alive, if the back end does not respond with a Keep-Alive header.

Added Item	Description
REST Resource Operation enhancements	You can now modify a REST resource even if the resource has an operation with a deleted integration mapped to the operation.
Project permission changes	To create projects, you must now have the *Administrator* Access Profile as well as the *Developer* project permission assigned.
New Applications	• *Adobe Experience Platform*: You can now connect to Adobe Experience Platform using the REST API version 1. Adobe Experience Platform provides central services for Data Ingestion, Governance, Insights, and Actioning. • *AgileApps*: You can now connect to AgileApps Cloud using the AgileApps REST API 10.8 to create and manage process-driven, situational, and case management applications. • *webMethods Cloud Container*: You can now use this Application to invoke Java and Flow services for any Cloud Container solution.
Support for Keyboard shortcuts for workspace and debug operations	You can now click the *Show Keyboard Shortcuts* icon available above the integration workspace area and view the available shortcut keys.
JSON Web Token support	For some Applications, for example, Salesforce CRM v44, Integration Cloud will now get an Access Token using the JSON Web Token (JWT) flow after you save the Account. You can generate OAuth 2.0 tokens using either the Authorization Code flow or the JSON Web Token (JWT) flow approaches.

Release 6.0.0

Added Item	Description

Integration Cloud

Preview Integrations	You can now view the pipeline and mapping details for a previous version of an orchestrated integration by clicking the *Show History* option. Pipeline preview is available in all stages of the Integration. To view the pipeline and mapping details for a previous version of an orchestrated integration in any stage other than the Development stage, change the stage, select the integration from the Integrations page, and then click *Preview*. You will not be able to make any modifications to the existing pipeline and mapping data.

Added Item	Description
Usage Reports	You can now view or download the run counts of integration usages for a specific stage and for the specified time frame. The report shows the count for the currently active stage. The data you see on the *Reports* page depends on when you view the data and when data collection ends. The reports data is collected daily, at the end of day, and it displays data collected till the day before yesterday. Daily around 9:10 PM, data collection starts. The time when data collection ends depends on the volume of data and for how long Integration Cloud takes to collect the data. Let us assume that the current date and time is 18th October, 9 PM. If you view the Reports page now at 9 PM, data collection is yet to start for today (it will start at 9:10 PM), and so the Reports page will show the integration execution counts that have occurred till 16th October 11:59 PM. If the data collection starts at 9:10 PM today and ends by 11 PM, then after 11 PM, the Reports page will show the integration execution counts till 17th October 11:59 PM.
Copy Integrations, REST APIs, and SOAP APIs across projects	You can now copy Integrations, SOAP APIs, and REST APIs between projects. Ensure that you create any account or reference data associated with the respective asset in the target project.

Added Item	Description
New Services	**Storage** • *deleteStore* - Deletes a data store and all its contents. **XML** • *xmlNodeToDocument* - Converts an XML node to a document. • *xmlStringToXMLNode* - Converts an XML document (represented as a String, byte[ ], or InputStream) to an XML node. • *getXMLNodeType* - Returns information about an XML node. • *queryXMLNode* - Queries an XML node.
New Applications	*Salesforce® CRM REST* Integration Cloud connects to Salesforce® CRM REST using the REST API and allows you to manage security for inbound requests, log payloads, and specify run-time performance conditions for consumers for outbound requests. It also supports multiple authentication mechanisms. *Google Cloud Pub/Sub* Integration Cloud connects to Google Cloud Pub/Sub and allows you to create, get, delete, set policy, and get policy on topics and subscription resources.
Locale information	You can now set the locale information according to the user's preference from the *Users > Locale* tab. The value set by you here is the locale applicable for your user profile, irrespective of the value set in the *Default Locale* field in *Company Information*.
Support for duplicate keys	While running or debugging Integrations and testing Operations, if the input has any duplicate keys, or if the service returns an output with duplicate keys, you can now view those keys.

Added Item	Description
End to End Monitoring	End to End Monitoring is a cloud offering by Software AG to monitor a business transaction from its start to end, as it passes through the various cloud platforms which includes webMethods API Gateway, webMethods Integration Cloud, and webMethods.io B2B. End to End Monitoring allows you to identify any errors that occur during a business transaction. It identifies the application within the cloud platform where the error has occurred and provides details of the time at which the error has occurred.

Cloud Deployment

Added Item	Description
Support upgrade to v10.5 from v10.4 and v10.3	You can now upgrade runtimes like webMethods Integration Server, Universal Messaging, and Terracotta that are part of a solution from an earlier solution 10.3 or 10.4 version to the latest 10.5 version.
Support GraphQL in Cloud Deployment	Cloud Deployment now allows you to deploy GraphQL assets which are developed using Software AG Designer and on-premises webMethods Integration Server. You can choose from predefined solution landscapes to deploy your GraphQL on-premises assets from Software AG Designer.
Support for tenant specific image	Hot fixes are now created for specific tenants. The *Hot Fix* list box in the *Solution* page lists all available fixes that include enhancements to the selected versions.
Support for creating solutions in non-development stage	Cloud Deployment now supports creating solutions in any stage, for example, in the development, test, live, and pre-live stages.

Added Item	Description
Support for defining stateless or stateful cluster for a solution in all stages	You can now define that a cluster is stateless or stateful for a solution in all stages. A stateless cluster of webMethods Integration Servers does not use a Terracotta Server Array. Select Stateful to add the Terracotta section. The Terracotta icons will be activated.

Release 5.6.0

Added Item	Description

Integration Cloud

Projects	A project is an independent entity and corresponds to a folder for organizing your assets. A project holds all the assets created as a part of that project by the logged-in user, along with the configurations associated with the assets. Any asset, for example, Integrations, REST APIs, SOAP APIs, Document Types, and Reference Data, is a part of a project. If you are an existing tenant, your assets will be available in the *Default* project. You cannot delete this default project. If you are a new tenant, the Default project is not available and you need to create a new project. **Note**: Only Administrators can create new projects.
Project Permissions	Project permissions are used to associate permissions with projects. The new *Project Permissions* page available under the *Settings > Project Permissions* tab allows you to associate permissions. Permissions for the *Default* project are assigned on the Administrative Permissions page in Access Profiles.

Added Item	Description
Assets categorized under Projects	Assets are now categorized under *Projects* on the *Deploy* page. If an asset is pulled and if the associated project is not present in the current stage, the project along with the asset will be available in the current stage.
Administrative permissions regrouped	Administrative permissions under Access Profiles have been regrouped under *Global Permissions*, *Functional Controls*, and *Project Permissions for Default Project*. If you are an existing tenant, your user's Access Profile controls global permissions as well as permissions for the Default project. If you are a new tenant, the Default project is not available and your user's Access Profile controls only global permissions.
Multi Authentication Support	You can now select different *authentication types* for the same Application while creating an Account. You can currently select different authentication types, for example, Credentials, OAuth V2.0 (Authorization Code Flow), or OAuth V2.0 (JWT Flow) only for Salesforce CRM v44.
Flat File enhancements	Integration Cloud now supports *Fixed length* and *Variable length* parsers when you use a *sample file* to define the definition and structure of a Flat File Application.
Locking Integrations	Integration Cloud now allows you to manage an Integration during the development life cycle by *auto locking*. When you edit an Integration, it is automatically locked for you. This restricts multiple users editing that Integration at the same time. To unlock an Integration, from the Integrations page, click the Integration link and on the Integration Overview page, click *Unlock*. **Note**: Only the user who locked the Integration or an Administrator can unlock the Integration.

Added Item	Description
Create document type from an XML Schema Definition	You can now create and delete a document type built from an XML Schema Definition (XSD).
Integration Versioning	While editing an Integration, you can now view the version change history of the Integration and also restore an earlier or previous version of the Integration. Click the *Show history* option available on the tool bar to view the version change history of the Integration. Then click on an earlier version to view that Integration version and click the *Restore* option to restore the selected previous version of the Integration. If you have reverted to an earlier version and there is a scheduled execution for the Integration, the reverted version of the Integration will be run as per the defined schedule.
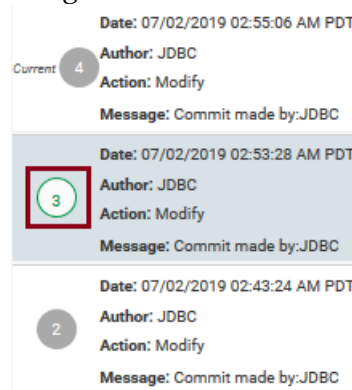
Added Item	Description
User Interface enhancements	The following user interface enhancements and changes are made in this release: ▪ When you log in to Integration Cloud, you will now view the *Projects* page instead of the home page. ▪ The new *Notifications* icon on the Integration Cloud navigation bar allows you to view update notifications, when was the last login, and the list of enhancements and changes in the current release. ▪ The Orchestrated Integration workspace has been enhanced to improve the usability. Icons on the Orchestrated Integration workspace navigation bar have been replaced with intuitive icons and the new *Show inline comments* option allows you to view comments entered for the blocks.
Database Application enhancements	*SSL account in the Database Application* You can now create SSL account to the databases. To create an SSL account, choose the respective certificate from the *Truststore Alias* option available in the *Account* screen. *Pre-loaded driver support* You can now use driver groups like Microsoft JDBC Driver for Microsoft SQL Server and PostgreSQL JDBC Driver for PostgreSQL to create the connection.
Custom *From Email Address* for alert emails	Alert emails that come from Integration Cloud have the *From Email Address* as *noreply@webmethodscloud.** by default. You can now request for a custom *From email Address* for your tenant.

Added Item	Description
Custom Domain Name	You can now request for a custom domain name for your tenant. For example, if your company name is *XYZ*, you can have the domain name as https:// subdomain.*xyz*.com.
Support for form encoded parameter	You can now send simple key value parameters embedded in the *Request Body* for POST or PUT requests. This uses the default web form encoding, which is application/x-www-form-urlencoded.
Server Name Indication (SNI) Support	While configuring an *Account* for an Application, you can select the *Enable SNI* option if a SaaS provider offers SNI-based TLS connectivity, and if you want to connect to an SNI enabled SaaS provider to send the host name specified in the Server URL field, as part of the TLS SNI Extension server_name parameter. To explicitly specify a host name to be included as a part of the SNI extension server_name parameter, in case the host name is other than the host name specified in the Server URL field, specify the host name value in the *SNI Server Name* field.
Modify alert frequency period	You can now set the alert frequency period from the *Alert Rules* page to send email messages.

Added Item	Description
New Applications	The following new Applications are available in this release:

- *Simple Mail Transfer Protocol (SMTP) Application*: Integration Cloud allows you to connect to an SMTP server using the Simple Mail Transfer Protocol (SMTP) Application. The *SendEmail* predefined operation sends an email to the specified recipient using SMTP.

- *Shopify*: Integration Cloud connects to Shopify using the Shopify REST API and allows you to organize your products, customize your storefront, accept credit card payments, track, and respond to orders.

- *CloudStreams Connector for Microsoft Azure Data Lake Store*: Integration Cloud connects to CloudStreams Connector for Microsoft Azure Data Lake Store using the REST API and allows you to manage File System resources through the Hadoop Distributed File System (HDFS) API. You create directories, folders, and files in your Azure Data Lake Store instance that can store and retrieve data.

- *Zuora REST*: Integration Cloud connects to Zuora REST using the Zuora REST API. Zuora allows you to manage Zuora objects in the Zuora Business Object Model, process revenue schedules, and perform other financial operations.

- *Salesforce® CRM REST*: Integration Cloud connects to Salesforce® CRM REST using the REST API and allows you to manage security for inbound requests, log payloads and specifies run-time performance conditions for consumers for outbound requests. It also supports multiple authentication mechanisms.

Added Item	Description

	- *webMethods.io B2B*: This application allows you to:
	  o Interact, accept requests, and build integrations for the webMethods.io B2B product instance.
	  o Exchange business documents between trading partners that use EDI documents of various standards, versions, and transaction types.
	
	- *Electronic Data Interchange (EDI)*: This application provides predefined operations to parse, validate, and transform EDI messages received from the webMethods.io B2B application and use these transformed messages to create orchestrations.

Cloud Deployment

Added Item	Description
Cloud Deployment Command Line Interface (CLI)	You can now manage a solution, monitor the status of all runtimes in a solution, promote assets from one stage to another, and so on using the Cloud Deployment CLI. The CLI supports *Interactive* and *Normal* modes.
Database as a Service	You can now add a MySQL database to your cloud deployment subscription. This enables you to configure, store, and monitor your database directly in the cloud instead of using external systems. The database endpoint can be shared by multiple solutions deployed by the tenant.
Self-managed update management	You can now update any product in a solution to the available higher version after you create the solution. The *Update Available* option appears if a higher version is available for any of the products in the solution. The latest version will appear in the *Version* drop-down list.

Added Item	Description
Copying solutions	You can now copy solutions in any stage. Copying solutions allows you to have a back up of your solution before you make any changes. You can choose to make a copy of a solution by using either the *same configuration and services* in the solution landscape or by *modifying the configuration and services* in the solution landscape.
End to end monitoring using AppDynamics	If you are currently using *AppDynamics* to trace end to end business flows, the new *tracing* list box option available on the Solution creation page allows you to trace logs after creating or updating a solution for a webMethods Integration Server runtime.
Viewing API signature of executable services	After deploying assets, you can go to the Asset explorer page and click the *API Details* option to view the API details of the service such as the HTTP Method, URL, Input structure, and the parameters that are required to invoke the service from an external system, for example, a REST client. **Note**: The API Details option appears only for executable services.
Monitoring support for JDBC adapter and CloudStreams connectors	You can now view *Connectivity KPIs* for both JDBC adapter and CloudStreams connectors in the runtimes of solutions. For connectors, listeners and connections data are displayed.
webMethods Integration Server service execution statistics	webMethods Integration Server service execution for solutions is now displayed by default for all services. There is no need to enable audit logging.

Release 5.5.0

Added Item	Description

Integration Cloud

Added Item	Description
Streaming support and replaying Salesforce events	Some Integration Cloud Applications, for example, *Salesforce CRM version 44*, now support connectivity with streaming APIs and processing of streaming API events. You can create a Salesforce CRM listener, select a subscription channel, and specify the Integration to be invoked on the incoming events. Additionally, you can configure the headers and parameters as well as enable and disable the listener. Once enabled, the listener receives the streaming API events and processes the received events. The Salesforce CRM listener can subscribe and listen to Salesforce events. Salesforce stores standard volume events for 24 hours, so for versions of Salesforce later than v37.0, you can retrieve the events if they are within the retention window. You can replay the lost events by selecting the following replay options: • New - Receive only new events that are broadcast after subscription. • All - Receive new events including past events (last 24 hours) that are within the retention window.
Support for consuming and producing Flat Files	You can now create a Flat File Application by defining a flat file structure either manually or from a sample file. You can then convert an inbound flat file to a document by invoking the predefined *convertFlatFileToDocument* operation in an Integration, or convert a document to an outbound flat file by invoking the predefined *convertDocumentToFlatFile* operation.

Added Item	Description
Support for creating SOAP APIs	Integration Cloud allows you to write integration logic to integrate different types of applications. This logic can now be exposed to the external world using SOAP APIs. You can create SOAP APIs by using an existing set of Integrations (from scratch), or by using a WSDL file. A SOAP API exposes one or more Integrations as operations, so each operation in a SOAP API corresponds to an Integration. Using a SOAP client, you can invoke the SOAP Operation externally using Basic Authentication or 2-way SSL. When the SOAP Operation is invoked, the associated Integration gets executed.
Connect to a database using the Database Application	You can now connect to a database using the new *Database* Application and perform database operations with cloud databases.

Cloud Deployment

Upgrade products to a higher fix version in a solution	You can now upgrade any product in a solution to the available higher fix version after you create the solution. The *Upgrade* option appears if a higher fix version is available for any of the products in the solution. The latest fix version will appear in the Fix version drop-down list.
Enable packages during solution creation	While creating a solution, after you select a *Fix* version, webMethods Integration Server packages such as *WmCloudStreams* and *WmJDBCAdapter* will appear in the *Packages* group box based on the selected *Fix* version. You can select the packages that you want to enable.

Added Item	Description
Enable cloud deployment capability for all tenants	Cloud Deployment capability is now enabled by default for all tenants. As soon as you register, 3 CPU cores and 6 GB memory are allocated for all tenants. *Provisioning* happens if you access Cloud Deployment for the first time using the application launcher. Solutions created using a trial account are deactivated daily. After you log in, you need to reactivate the solutions. All assets will be available after a short delay.
Deploy webMethods CloudStreams assets	You can now deploy CloudStreams provider packages, CloudStreams connector services, CloudStreams connection, and CloudStreams connector listeners to a solution in Cloud Deployment and view those assets. This is applicable only if you have selected *WmCloudStreams* as the package option while creating the solution.
Promote assets from a solution to another solution	Within a tenant, you can now promote assets from a solution to another solution, from a previous stage to the current stage, for the same runtime type. You can promote assets if the source runtime version is lesser than or same as the target runtime version.
Load pipeline data for testing services	When you run a service in Software AG Designer, you can save the pipeline data as an XML document to your local file system. After you deploy the service in Cloud Deployment, you can now click the *Load Data* option in the Service editor in Cloud Deployment to load or update the pipeline data and test the service.

Added Item	Description
Download user deployed packages and configurations	You can now download user deployed packages and configurations from the *Assets* page. The assets will be zipped and downloaded to your local storage space. From the *Asset Repository* page, you can either download individual packages or download the whole repository for each product. The assets including ACDL files will be zipped and downloaded to your local storage.
Enhanced user interface for Monitoring	• The Alerts page now displays the *Resolved On* date for all the resolved alerts. • On the *Runtimes* page, you can now click on the *Adapter KPI* link to display the Adapters details in a pop-up window. • On the landing page, a help icon is now added in the *Service Executions* card. • From the *Alerts* card on the landing page, you can now click *Configure* and go to the *Alerts Configuration* page.

Release 5.1.0

Added Item	Description

Integration Cloud

User Interface changes due to performance enhancements	The following user interface changes are made to enhance the performance and reduce the wait time for user actions: • Applications are now listed under different categories such as Predefined Applications, REST Applications, On-Premises Applications, and SOAP Applications. • The Integrations list page (Develop > Integrations) now shows a basic view of all the Integrations. To view the references (*Uses* column), select the *Show Advanced View* check box available on the Integrations list page.
Support for viewing Integration Cloud Capabilities	The new *Capability* page allows you to view the status of some of the system capabilities, based on your license offering. To access this page, from the Integration Cloud navigation bar, click ⑦ and select *Licensing > Capability*.
Support for multipart request body	For some Applications and Operations, for example, for the *CloudStreams Connector for Salesforce(R) Bulk v2 Data Loader* Application and *Create Job and Upload Job Data* Operation, Integration Cloud supports multipart request body.
Mapping enhancement	While doing pipeline mapping, you can now view only the mapped fields by selecting the *Show Only Mapped Fields* check box.

Added Item	Description
Support for invoking deployed services from Integration Cloud	Integration Cloud Integrations can now invoke Cloud Deployment webMethods Integration Server services for the same tenant. A new pre-defined Application, *Cloud Deployment*, is added in Integration Cloud. Using this Application, you can select the solution webMethods Integration Server services that you want to call from Integration Cloud.

Added Item	Description
OAuth 2.0 enhancements	The following OAuth 2.0 enhancements have been implemented in this release: • From the *Client Registration* page, you can now associate scopes with a client as well as create a new scope and associate it with a client by clicking the *Associate Scopes* option. • Support is added for Client Credentials Grant and Resource Owner Password Credential Grant types as part of OAuth spec for OAuth token generation flow. • After you select the *Enable Integration to be invoked over HTTP* option on the Integration Details page, *OAuth Scopes containing the exposed Integration URL* appears. Clicking the *OAuth Scopes* option displays the OAuth Scopes which contain the exposed URL of the Integration. You can add the exposed URL of the Integration to an existing scope or add a new Scope which will contain the exposed URL of the Integration. • From the REST API Resources page for a REST API which is created from scratch, you can now click the *OAuth Scopes* option to view the OAuth Scopes which contain the REST Resource path with Method. You can add the REST Resource path with Method to an existing scope or add a new scope which will contain the REST Resource path with Method. • While creating or updating a scope, you can now select the exposed Integrations and REST Resources that you want to add as Service URLs from the *Services* dialog box. • Enhanced the OAuth Approval page generated in the OAuth token generation flow. • SSO support for authentication during OAuth token generation flow. • Support for auditing OAuth Client, Scope, and Token CRUD operations.

Added Item	Description

Cloud Deployment

Added Item	Description
Support for viewing Cloud Deployment Capabilities	The new *Capability* page allows you to view the status of some of the Cloud Deployment capabilities, based on your license offering. To access this page, from the Cloud Deployment navigation bar, click ⊕ and select *Licensing > Capability*.
Support for deleting assets	You can now delete assets from all stages from the *Deploy* page for a solution.
Support for viewing more assets	You can now view more on-premises assets for Cloud Deployment.
Support for stateless cluster of webMethods Integration Servers	In addition to supporting stateful webMethods Integration Server clusters, you can now define that a cluster is *stateless* from the *Landscape* page for a solution. The deployment of a solution will therefore not need a Terracotta Server Array.
Landscape component status	You can now see the status of a solution landscape component whether it is ready or not ready on the landscape page.
Deployment Status Tracking	You can now type a message to describe the rollback. The rollback message appears on the *History* page. The History page shows the *Trace ID*, that is, the tracking ID, which is automatically generated on every successful or unsuccessful promotion, rollback, or deletion, the Deployment, Rollback, or Deletion Action, Date when the asset was promoted, rolled back, or deleted, the User who promoted, rolled back, or deleted the asset, and the commit Message for the selected instance. You can click on a Trace ID to see the *Track History* for the specific action.

Added Item	Description
Support for usage based license monitoring of CPU and Memory capacity	You can now view the cumulative usage of CPU and Memory for all the active solutions in all the stages from the *Usage* page. To access this page, from the Cloud Deployment navigation bar, click ⊙ and select *Licensing > Usage*. Further, on the Cloud Deployment landing page, you can see the current usage (CPU and Memory) for the tenant.
Continuous Integration/Continuous Deployment (CI/CD)	You can now build user-created assets and configurations using webMethods Asset Build Environment (ABE), retrieve those assets and configurations from a VCS by using ABE or an automated tool like Jenkins, and then deploy those assets and configurations to the Integration Cloud Development Stage using ABE. For information on CI/CD and how to promote assets across stages, see the *Deploying to webMethods Integration Cloud* document.
Support for webMethods Adapter KPI monitoring	You can now monitor the following details of all the installed Adapters: • Total number of enabled and disabled connection pools • Total number of enabled and disabled listeners • Total number of enabled and disabled notifications
Duplicate low severity alerts	In earlier releases, along with critical alerts, redundant alerts of lower severity like warning and info alerts were also displayed. From this release, if there are critical alerts, lower severity alerts will not be displayed.

Release 5.0.0

Added Item	Description

Integration Cloud

Debug Orchestrated Integrations	You can now debug an orchestrated Integration and can inspect the data flow during the debugging session. You can inspect and edit the pipeline data before and after executing the individual blocks. Further, you can step over each block one at a time, or can specify breakpoints where you want to halt the execution.
Support for OAuth 2.0	You can now protect Integration services and REST APIs using the OAuth 2.0 protocol.
Support for enabling dynamic account configuration details at runtime	For REST Application operations, you can now provide account configurations at runtime during integration execution. When you create or edit an operation of a REST application, you can select the fields you want to pass at runtime in the *Dynamic Account Configuration Fields* dialog box.
Support for configuring two-way SSL for inbound connections	Integration Cloud now supports two-way SSL for inbound connections. You can store client certificates and associate a certificate with a user account.
Support for refreshing OAuth 2.0 Access Tokens	To refresh the access tokens for accounts which use the OAuth 2.0 protocol, you can now specify a call-back Integration which will execute when the access token expires. Select *Custom ESB Service* in the *Refresh URL Request* field and provide the Integration name in the *Refresh Custom ESB Service* field.

Added Item	Description
New Applications	• *Applicability Statement 2 (AS2)* - Applicability Statement 2 (AS2) allows you to transport EDI and other business data securely and reliably using the HTTP transport protocol. The application supports the AS2 protocol versions 1.1 and 1.2. You can configure the AS2 Application with the *Auto Detect* option. • *Microsoft Dynamics CRM 365* - Microsoft Dynamics CRM 365 allows you to manage CRM data and access metadata that defines the specific CRM instance to which you are connecting using the OData API Version 4.0. This Application performs standard CRUD operations on business objects by connecting to the OData service endpoint.
Support for configuring Headers and Parameters for REST-based Applications	You can now add and configure the Headers and Parameters for REST-based Applications.
Support for viewing associated ACLs for an Access Profile	You can now view ACLs associated with an Access Profile from the Access Profile details page. Further, the *Default ACL - Everybody* is now changed to *Default*.
Support for editing the default Access Control List	You can now edit the default Access Control List. Further, the name of the default ACL has been changed from "Everybody" to "Default".
Service changes	• New services *sleep:* This service has been added under the *Flow* category. • Updated Services *xmlStringToDocument* - New input parameters have been added to this service.
Enhancements for Interactions and Business Objects for Operations	You can now edit interactions in a single request and also edit multiple business objects in a single request. Further, you can drag and drop the interactions or business objects to change the order in which they will execute.

Added Item	Description

Cloud Deployment

Support for Cloud Deployment	Cloud Deployment allows you to deploy on-premises assets and configurations, which are developed using Software AG Designer and on-premises Integration Server, to Integration Cloud. You can choose from predefined solution landscapes to deploy your on-premises assets from Software AG Designer. The assets and configurations can be promoted from one stage to another stage. During promotion, the asset field values can be changed. You can monitor the health and availability of the solutions and run-time instances, alerts, and alert statuses for all the deployed solutions.
New Administrative Permissions for Solutions	Permissions for creating, updating, and deleting solutions have been added under Access Profile > Administrative Permissions > *Functional Controls*. The permissions allow you to add, modify, and delete solutions available on Integration Cloud.
Solution Permissions	A new *Solution Permissions* page in Access Profiles is now available which allows you to map Integration Server user groups to an Access Profile. With this mapping, the Integration Cloud user who has that Access Profile can perform tasks on the solution Integration Server(s) by being present in that particular user group.
Customized message while promoting assets	You can now type a message while promoting assets. The promotion message appears on the new *History* page.
Infrastructure provisioning status for Cloud Deployment	You can now see the status when a solution landscape is provisioning or has been successfully provisioned. The user interface pages will be disabled when a solution is being provisioned.

Release 4.6.0

Added Item	Description
Reference Data enhancements	You can now view, edit, delete, and download Reference Data *in all stages*. The new *Status* column in the Reference Data table displays *Configured* if the Reference Data is available in the current stage and displays *Not Configured* if the Reference Data is not available in the current stage but available in any other stage.
Controlling Integration Executions using Access Control Lists (ACLs)	You can now use Access Control Lists (ACLs) to control the execution permission of an Integration. An ACL can be assigned to an Integration and a user can be associated with the ACL through the Access Profile. Therefore using ACLs, you can control the users who can execute an Integration.
Users associated with an Access Profile	You can now view the list of users associated with an Access Profile by clicking the Access Profile link on the Access Profiles page.
Support for associating multiple Access Profiles with an Access Control List	You can now associate multiple Access Profiles with an ACL while creating or modifying an ACL from the Access Control List > *Associate with Access Profiles* page.
Ability to Copy, Export, Import, and Refresh REST APIs	Integration Cloud now allows you to copy, export, import, and also refresh a REST API.

Added Item	Description
Support for nested and multiple Business Objects and Interactions	You can now create or update *multiple business objects*, for example, Contact, Opportunities, and Account in a single request for the Salesforce v42 Application. The following operations have been added for the Salesforce v42 Application: *createMultiple* - This operation allows you to add one or more records of different business object types. For example, Account and Contact business objects can be created in a single invocation. *updateMultiple* - This operation allows you to update one or more records of different business object types. For example, Account and Contact business objects can be updated in a single invocation.
	You can also add *interactions (*sub-operations), for example, Create, Update, Upsert, and Delete, and then *associate those interactions with business objects in a single request* for the OData 4.0 Application. The following operations are available for the OData 4.0 Application: *Batch* - Batch requests allow grouping multiple interactions into a single HTTP request payload. Batch allows you to create, update, read, and/or delete entities of same or different entity types in a single request. *ChangeSet* - A change set is an atomic unit of work consisting of an unordered group of one or more data modification requests. ChangeSet allows you to create, update and/or delete entities of same or different entity types in a single request.
	Note that business objects and Interactions appear only for certain Applications and Operations.
	Further, for some operations, for example, for the *Retrieve Contained Or Derived Entity* operation in the OData 4.0 Application, Integration Cloud displays nested business objects. You can expand the nested business objects to display the child-level objects.

Added Item	Description
New Applications	The following Applications are added in this release: • *Amazon Kinesis* - Amazon Kinesis is a managed service that scales elastically for real-time processing of streaming big data. The most common Amazon Kinesis use case scenario is rapid and continuous data intake and aggregation. • *Twilio* - Using the REST interface, Twilio allows you to programmatically make and receive phone calls and send and receive text messages.
Help navigation and user interface changes	Page titles and help icons have now been removed from the specific user interface pages. To access context-sensitive help information, click on the ⓘ icon from the navigation bar.
Recipes page enhancements	*Pagination* The Recipes page is now paginated to identify the sequential order of the pages. You can also select the number of recipes to be viewed per page. `8` `9` `▶` `▶|` `12 ▾` Recipes per Page *Search* You can now search Recipes by Application names.
Registration page changes	The field name of the email address provided during registration has been changed to *Work Email Address*.

Added Item	Description
New Services	New services have been added under the following categories: *Date* • currentNanoTime • elapsedNanoTime • formatDate • getCurrentDate *Document* • searchDocuments *List* • addItemToVector • vectorToArray *Math* • addObjects • divideObjects • min • multiplyObjects • subtractObjects • toNumber *String* • HTMLDecode • HTMLEncode *Utils* • generateUUID

Changed Item	Description
Submit option is deprecated while executing Integrations from an external system	You can use the *run* option in the Request URL while executing an Integration from an external system, that is, if the Integration is enabled to be invoked over HTTP.

Release 4.5.0

Added Item	Description
Create REST APIs	Integration Cloud allows you to write integration logic to integrate different types of applications. This logic can be exposed to the external world using REST APIs. These REST APIs can be created by using an existing set of Integrations (from scratch) or by using a file containing the Open API specification (formerly known as the Swagger specification) as a template. A REST API consists of many Resource Operations and each Resource Operation has a Path, one or more HTTP Methods, and an associated Integration. A REST Resource Operation can be tried out from the Swagger screen of a REST API. When the Resource Operation is invoked using the HTTP Method, the associated Integration gets executed.
Application enhancements	Following are the Application enhancements: • Some Applications, including custom REST Applications now allow two-way SSL authentication by providing keystore and truststore aliases in the Account Configuration section. • The Account configuration field *Use Chunking* has been added in many Applications. • For custom REST Applications, *binary* has been added as the content type for the Request/Response body. Binary data can be sent as an input to a REST operation.
Refresh SOAP Applications	You can now update a SOAP Application by specifying a new WSDL URL or by uploading a new WSDL file.

Added Item	Description
New Blocks and Expressions in Orchestrated Integrations	Following are the new and modified blocks and expressions: **New Blocks** • *switch* block in *Control Flow* category. The *switch* block can be mutated for multiple *cases* and one *default*. • *Throw error "..."* block in *Control Flow* category. • *Field exists* expression in *Expressions* category. **Modified Blocks** • *if* block has been enhanced and can now be mutated. • *if else* block has been deprecated and is not available from this release but Integrations currently using the *if else* block will continue to work successfully. • *Exit Integration* has been renamed to *Exit Integration signaling success* and *Exit Integration with failure* has been renamed to *Exit Integration signaling failure*.
Ability to delete assets used by an Integration	You can now delete custom Applications, Accounts, Operations, Integrations, Reference Data, and Document Types assets available in the *Development* stage, even if those assets are referenced by other assets. Note that if assets used by an Integration are deleted, you will not be able to pull the Integration into subsequent stages or export the Integration. After deleting an asset, the deleted asset reference is highlighted (⚠) in the user interface.
Ability to delete Users	You can now delete users provided you have the *User Management* permission. Note that you cannot delete your own user profile. If a user is deleted, then the user cannot be recovered and all assets created or modified by the user will appear in the *Created By* and *Modified By* columns as *Unknown User{first two characters of the first name and last name}*.

Added Item	Description
New Services	The following new services have been added under the *IO* category: • *streamToString* - Creates a string from data that is read from an InputStream. • *stringToStream* - Converts a string to a binary stream. The following new services have been added under the *Flow* category: • *clearPipeline* - Removes all fields from the pipeline. • *getHTTPRequest* - Gets information about the HTTP request, received by Integration Cloud. • *setHTTPResponse* - Sets the HTTP response information to be returned by Integration Cloud.
Terminate in-progress Integration executions	You can now click the *Terminate* option available in the Execution Results details page to terminate *in-progress* Integration executions provided you have the Execute Integration permission. The *Terminate* audit log entry is created.
New Application	A new Application, *Anaplan*, has been added in this release. Anaplan allows you to interact with data in your models and securely upload files, download files, import and export data, and run actions programmatically.
Viewing assets and services in various stages	Integration Cloud now displays the current active stage on the navigation bar: The stage in view can be changed in the *Stages > Change Stage To View* page. You can view assets and services in each stage and *view only those assets that are available in the selected stage*.
API Management permission	The *Manage Promotions* permission has been added under *Functional Controls* and allows you to add, modify, and delete API Gateway stages, or move API Gateway assets from the source stage to one or more target stages, or to rollback an asset promotion that is already available in the target stage at any time.

Added Item	Description
Redesigned user interface	The user interface has been redesigned and has a new look and feel in this release. The functions that can be accomplished have been reorganized for improved usability. • *Settings* menu can be accessed by clicking on the ⚙ icon. • *User Profile*, *My Profile* and *Logout* menu items can be accessed by clicking on the 👤 icon. • *Help Topics*, *TECHcommunity* website, and the *About* page can be accessed by clicking on the ❓ icon. • *Applications* and *Keys & Certificates* have been moved under the *Connect* menu. • *Stages* tab has been newly added in this release and contains *Change Stage To View, Deploy, and Manage*. The *Deploy* option is also available on the *Integrations* page. • *Recipes* tab has been moved under *Develop*. • The *Pull* functionality has been moved from the *Integration Details* page to the *Deploy Assets* (*Stages > Deploy*) page. This page allows you to move assets from one stage to another stage. • Stage selection drop-down list box has been removed from the *Dashboard* and *Execution Results* pages.
Terminology changes	▪ Advanced Security changed to Keys & Certificates ▪ Exit Integration changed to Exit Integration signaling success ▪ Exit Integration with failure changed to Exit Integration signaling failure ▪ Stage Management changed to Manage Stages

Release 4.1.0

Added Item	Description
Export and Import Integrations	Integration Cloud now allows you to export Integrations from one tenant and import those Integrations to another tenant. You can import only those Integrations that are exported from Integration Cloud. You must have the "Export" permission to export Integrations.
Home page enhancements	The Home page has been redesigned and has a new look and feel in this release. The functions that can be accomplished from the Home page have been reorganized for improved usability.
Customizing Integration Cloud	You can now customize the Integration Cloud user interface by changing the logo, colors, font face, copyright information, and the "About" page contents. The behavior or functionality of Integration Cloud cannot be changed.
Email opt-in during new tenant registration	The Email opt-in field is now added that will enable you to receive marketing materials from Software AG. You can unsubscribe from the updates at any time.
SSO login capability	If you have already configured SSO, the "SSO Login" option now appears in the login page. Clicking this option redirects you to the Identity Provider (IdP) login page. After you provide the IdP login credentials, you will be logged into Integration Cloud.
Redesigned test results and Orchestration layout	The test results panel has been redesigned to provide a larger work space in this release. Also, the "Cancel" button in the Orchestrated Integration page has been changed to "Exit" and the Help icon has been moved to the lower left-corner of the page.
Logged fields for business data	Integration Cloud now allows you to select any number of fields to log business data from the Operation and Integration signatures.
New Applications	The following Applications are added in this release: • DocuSign • Amazon DynamoDB

Added Item	Description
New Services	The new *Storage* block is added in this release and the following services are added under the *Storage* block: *add, get, keys, lock, put, remove,* and *unlock*. The *objectToString* service is added under the *String* block and it is also available as a transformer service.
New Recipes	39 new Recipes integrating Coupa, NetSuite, ServiceNow, Salesforce, Amazon S3, FTP server, Jira, Sugar CRM, Concur, and Zendesk have been added in this release.
Prevent concurrent executions	Integration Cloud now allows you to skip the next scheduled Integration execution if the previous scheduled execution is still running by selecting the "Prevent concurrent executions" option in the Schedule Execution window.

Release 4.0.0

Added Item	Description
Alert rules	You can now create alert rules and send email messages to selected users for one or more Integrations based on Integration execution results (Failed, Completed with Errors, or Completed Successfully) for different stages (Development, Test, Pre-live, and Live). Email messages are sent only if there are executions that match the alert rules.
Restart/Resume Integration executions	Integration Cloud now allows you to restart or resume Integration executions. You can enable Integration executions to be restartable or resumable by selecting the *Enable executions to be restartable* option in the Integration Details page. From the Execution Results page, based on the execution status, you can either resume or restart the Integration execution.
Orchestration UI changes	The Orchestration User Interface has a new look and feel in this release. The block shapes, colors, and icons have changed but there is no change in the Orchestration functionality.

Added Item	Description
New Applications	The following Applications are added in this release: • Atlassian Jira v2 • IBM Watson Tone Analyzer v3.0 • Google Analytics Reporting v4.0 • Google Analytics v3.0 • Coupa v19 • Google Prediction • NetSuite 2016_2 • Siemens MindSphere v2.0
Add custom fields to operations	For some operations of certain Applications, for example, Coupa, you can now add your own fields. Such fields are called custom fields.
getSessionInfo service enhanced	The getSessionInfo service is enhanced in this release to include the *executionResultReference* parameter in the response under $session. The *executionResultReference* parameter returns the current Integration execution result reference identifier. For example, you can pass the identifier to an on-premises operation and trace the Integration execution.
New Recipes	16 new Recipes integrating Cumulocity, ServiceNow, IBM Watson Tone Analyzer, Zendesk, Salesforce CRM, Marketo, Google Sheets, Slack, MS Dynamics CRM, and Magento have been added in this release.
Orchestrate containerized Integration Server services	You can now invoke services exposed by Integration Servers running in Docker containers from Integrations.
API Management permissions	Integration Cloud now allows you to create and manage API Management Access Profiles provided you have the required API Gateway Cloud and/or API Portal Cloud licenses. The following predefined Access Profiles are provided: • API Gateway Administrators • API Gateway Providers • API Portal Administrators • API Portal Providers
Terminology changes	Expose as a REST service is changed to Enable Integration to be invoked over HTTP

Added Item	Description

Deprecated Item	Replacement, if any
Coupa v17	Coupa v19
NetSuite 2014_2	NetSuite 2016_2

Release 3.6.0

Added Item	Description
Create REST Applications	Integration Cloud now allows you to define REST Resources and Actions and create REST Applications.
New Recipes	New recipes are added in this release. The recipes page now displays the number of times each recipe has been used to create Integrations. The page also displays the Applications referenced in the recipe.
New Applications	The following Applications are added in this release: • Apache Solr • Concur • Coupa • Cumulocity • SugarCRM • Zendesk
Double-click to set field values	You can now double-click a field while mapping and set a value for that field.
View Docker Image Tag label details	You can now view the Docker Image Tag label details on the *Image Tag* details page.
View the number of available Docker containers	You can now view the number of available Docker containers in the repositories screen based on your license permissions.
Password Policy changes	The following fields are added in the *Password Policy* page: • Password Never Expires for • Inactive Session Timeout

Added Item	Description
SOAP Account configuration changes	Protocol, Host, and Port fields in the SOAP Account configuration page are replaced with the *URL* field.
Save Integration execution test results	You can now either open or view an Integration execution test result entry or save it locally in JSON format. You can also delete the selected test result entry from the *Test Results* page.
Licensing model changes	Licensing model has now changed and the details are as follows: • Licensing is now based on the number of Applications and not on the number of Accounts created. • If an Application has an Account, then the Application is considered as being used. • The total number of Applications allowed is 2 for Basic, 5 for Advanced, and 8 for Enterprise editions. • You can now use all released versions of an Application, that is, you can use both version 29 and 31 of Salesforce CRM. The Application count will still be considered as 1. • The Application count will be considered as 1 for any number of custom SOAP or REST Applications created in Integration Cloud. • The "Applications" page message now displays the total number of allowed Applications and the total number of Applications used. On-premises applications are not counted as part of the total number of applications allowed.
Redesigned Registration page	The *Registration* page has a new look and feel in this release. Further, the following fields are added: • Your Role • Company Size • Is your interest based on

Release 3.5.0

Added Item	Description
Recipes	You can now use pre-built Orchestrated or Point-to-Point Integration templates to create an Integration. Recipes are based on the most common integration needs and can significantly reduce the effort required to build an Integration. You can also preview the recipe description and its assets before using the recipe.
Alphanumeric characters on the New Registration, Reset Password, and Login screens	Integration Cloud now displays distorted alphanumeric characters on the "Password Reset" and "New Registration" screens. Further, if you are not able to successfully login after a few attempts, you are required to enter the distorted alphanumeric characters that appear on the login screen.
Password in a follow-up email	After you submit the new registration form and as soon as the registration process is complete, an email is sent to the email address you provided during registration. A follow-up email is now sent that contains the temporary password. The follow-up email is also sent for "Password Reset".
New Applications	The following Applications are added: ▪ Google Cloud Storage ▪ SAP S/4HANA Marketing Cloud
Enhanced Integration Scheduling	You can now define a recurrence pattern to schedule integration flows at 1 minute intervals.
New types Integer, Short, Long, Float, Double, and Boolean are introduced for defining the data contained by a field.	While defining fields of a Document Type, you can now specify Integer, Short, Long, Float, Double, and Boolean as types.
Enhanced Operations screen	"Show Signature" and "Test" options are now available on the Operations screen. The "Show Signature" option allows you to view the Input and Output signature of all predefined and custom Operations. The "Test" option allows you to test all predefined and custom Operations. Both Trigger and Action Operations can be tested. If an operation does not have an input signature, the input fields are not displayed.

Added Item	Description
Enhanced Business Data logging	Integration Cloud now allows you to capture business data for all (successful and error) transactions. The "Always" option is added in the "Select Business Data to log" dialog box, which allows you to *always* log select business data from the Operation and Integration signature.
Enhanced Dashboard	Integration Cloud Dashboard displays the number of in-progress Integration executions. You can now click on the number to view the in-progress Integration execution details.
Reference Data in Point-to-Point Integrations	Reference Data is now available in Point-to-Point Integrations while transforming data.

Changed Item	Description
getSession	Name of the "getSession" service is changed to "getSessionInfo". The service is available under the Services > Flow block.

Release 3.1.0

Added Item	Description
Redesigned Container management UI	Container Repository and Services screens are reorganized for improved usability. Container now includes elastic volume for Docker application data persistent.
Run Universal Messaging (UM) as a container	Universal Messaging (UM) can now be run as a container in Integration Cloud. For creating the UM Docker images supported by Integration Cloud, you must run the Integration Cloud UM script to modify the base image before it is uploaded into Integration Cloud.
New Service	"getSession" service is now added under the Services > Flow block.

Added Item	Description
Redesigned Execution Results screen	You can now view execution results for all Integrations in all stages for a specified time period. Execution status filters are provided to filter the results. Numbers inside the status filter circles indicate the sum of the execution counts for that status. Detailed screens are provided to view the number of documents processed by an Integration along with information about the Operations for a selected Integration. You can also view the business data logs when errors occur along with custom messages from the Execution Results screen.
Redesigned Dashboard screen	The Dashboard now displays the total number of documents processed (counted using the countProcessedDocuments service) by an Integration or for all Integrations. It also shows Integration executions that have completed with errors.
Alerts on Welcome screen	You can now view alerts on the Integration Cloud Welcome screen. High severity messages appear in red color. Medium severity messages, for example, deprecated information, appear in yellow color. Low severity messages, for example, scheduled and upgrade messages, appear in blue color.
New Services	groupDocuments, documentToBytes, bytesToDocument, and sortDocuments services are added under the Document block. countProcessedDocuments service is added under the Flow block.
New Applications	The following Applications are added: ▪ Avalara AvaTax ▪ Google BigQuery ▪ Magento eCommerce Platform ▪ OData v2.0 ▪ ServiceNow Enterprise Service Management (Geneva) ▪ Slack

Added Item	Description
Copy fields and Paste fields	You can now copy a field from a pipeline view or a Document Type view and depending on the context, paste either the field or the field path.
New Control Flow blocks	"Exit Integration", "Exit Integration with failure", and "Break out of loop" blocks are now added under the Control Flow category.

Deprecated Item	Replacement, if any
ServiceNow Enterprise Service Management version Calgary.	ServiceNow Enterprise Service Management version Geneva.

Release 3.0.0

Added Item	Description
Container management service	You can now package existing webMethods Integration Server services as a Docker image or a repository and upload them in the Integration Cloud registry using the Docker CLI. From the Integration Cloud User Interface, you can create Docker containers from those repositories and start, stop, or delete the container services.
Support for upgrading Accounts and Operations	You can now upgrade Accounts and Operations from a lower version to a higher version. If an upgrade is available, the upgrade notification text appears on the Applications screen beside the Application. In this release, only Salesforce CRM Application can be upgraded from v29 to v31.
Support for complex fields	Integration Cloud now allows you to select nested data fields while creating a custom operation.
Enhanced look and feel for the User Interface	Integration Cloud User Interface has a new look and feel in this release. The screen layout and width has changed but there is no change in the User Interface functionality.
Field level help texts	For some fields in Integration Cloud, you can now point the mouse cursor to the help icon (❓) next to a field, and view the field level help text.

Deprecated Item	Replacement, if any
Salesforce CRM version 29 is deprecated.	Salesforce CRM version 31.

Release 2.6.0

Added Item	Description
Performance data on Welcome screen	You can now view performance data regarding Integration executions on the Integration Cloud Welcome screen.
Dashboard for monitoring	Dashboard provides a centralized and intuitive way to view and monitor Integration executions and performance details. You can quickly identify, diagnose, and address problems in Integrations. Dashboard is available on the "Monitor" menu.
Integration Cloud User Interface	"Audit Log" and "Execution Results" are now available on the "Monitor" menu.
Business Data Logging	Integration Cloud now allows you to log select business data from the Operation and Integration signature. Values of logged fields can be viewed in the "Business Data" section in Execution Results. You can also create aliases for the logged fields.
New Service	The "logCustomMessage" service is added under the Flow block.
Download Execution Results	You can now download execution results from the Execution Results screen.
SAML 2.0 based Single Sign-On (SSO)	Integration Cloud now supports Single Sign-On (SSO) that allows users to authenticate themselves against an Identity Provider (IdP). Both Service Provider and Identity Provider initiated SSO capabilities are supported.
Federation ID for SSO	You can now enter the *Federation ID* in the *User profile > Basic* tab if your Identity Provider passes the Federation ID for Single Sign-On.
Secure File Transfer Protocol (SFTP)	You can now connect to a SFTP server using the new SFTP Application and download files from or upload files to an SFTP-enabled server using the secure file transport channel.

Added Item	Description
Amazon Simple Notification Service (SNS)	An additional Application for Integration Cloud. Integration Cloud connects to Amazon Simple Notification Service (Amazon SNS) using the REST interface and allows you to publish messages and deliver them to subscribers and other applications.
SAP Cloud for Customer (C4C) OData v2.0	An additional Application for Integration Cloud. Integration Cloud connects to SAP Cloud for Customer (C4C) including SAP Cloud for Sales, SAP Cloud for Service, and SAP Cloud for Social Engagement solutions using the REST interface, and allows you to do standard CRUD operations on business objects by connecting to the OData Service endpoint. The SAP Cloud for Customer (C4C) OData v2.0 Application is a Beta candidate.
Marketo	An additional Application for Integration Cloud. Integration Cloud connects to Marketo using the Marketo REST API and allows you to create, retrieve, and remove entities and data stored within Marketo.

Release 2.5.0

Added Item	Description
Added new services under String block	The following new services are added: isNumber, isAlphanumeric, isNullOrBlank, isDate, substitutePipelineVariables, compareStrings.
Added a new FTP predefined operation	renameFile operation is added for FTP Application.
Alfabet	An additional Application for Integration Cloud. Integration Cloud connects to Alfabet using the Interface for RESTful Web Services Version 1 and supports working with the various object types as defined in Alfabet. You can use it to query, retrieve, create, update, and delete objects of any type, and also manage relations between the objects.
Ability to connect to Salesforce using Partner SOAP API version 31 and Salesforce Bulk API version 31	Integration Cloud can now connect to Salesforce using the Partner SOAP API version 31 and the Salesforce Bulk API version 31.

Added Item	Description
Added a new Salesforce CRM predefined operation	uploadDataToWave operation is added for Salesforce CRM.
Download Integration Cloud Readme	You can now download the Integration Cloud Release Readme from the *About webMethods Integration Cloud* page (*<Logged in User>* > About > About webMethods Integration Cloud).

Changed Item	Description
Integration Cloud User Interface	Integration Cloud has a new look and feel in this release. The location of the menu has changed but there is no change in the User Interface functionality.

Release 2.1.0

Added Item	Description
Added new services under Date, Document, List, and Flow blocks	The following new services are added: compareDates, incrementDate, insertDocument, deleteDocuments, documentListToDocument, documentToDocumentList, appendToDocumentList, appendToStringList, sizeOfList, stringListToDocumentList, getLastError.
Test Integration executions in real time	You can now test the Integration execution in real time and view the execution results in the "Test Results" pane.
Support for document references	You can now create pipeline variables as document references, create document types comprising of document references, and also define the signature of Integrations comprising of document references.
Connection status for FTP and SOAP Accounts	You can now select "Test Connection" if you want to view the status of the connection for an FTP or custom SOAP Application. In earlier releases, Integration Cloud automatically verified the connection status.

Added Item	Description
Integration inputs during scheduling	You can now use "Schedule" or "Run Now" options available in the Integration details page and provide inputs to the Integration based on the defined input signature.
Enhanced Reference Data signature	You can now filter the Reference data by providing an appropriate "matchCriteria". The output of Reference Data used in an Integration is a list of documents that match the specified "matchCriteria". Reference Data signature is derived from the column names of the uploaded text file. The root element in the output of Reference Data created from Integration Cloud version 2.1.0 has the same name as the one given to the Reference Data.
Map an indexed item of a String List, Document List, Document Reference List, or Object List	You can now add an indexed item to a String List, Document List, Document Reference List, or Object List and also map the indexed item. You can delete the selected indexed item provided the indexed item or none of its child fields are mapped.

Release 2.0.1

Added Item	Description
Microsoft Dynamics CRM	An additional Application for Integration Cloud. Integration Cloud connects to Microsoft Dynamics CRM 2013 using the Microsoft Dynamics CRM SOAP API. You can manage CRM data and access metadata that defines the specific CRM instance to which you are connecting.

Release 2.0

Added Item	Description
Create and edit Document types	You can now create a Document type and use it to define the input or output parameters for an Integration.
Specify input/output signatures	You can now declare input and output parameters for an Integration using the Input and Output tabs.
Invoke an Integration from another Integration	A new "Integrations" block is added, which displays the list of Integrations created in Integration Cloud. You can now invoke an Integration from another Integration. When copying integrations from one stage to another, all the referred Integrations and their dependents are also copied. You can also edit the referred Integration, which will open the Integration in a new tab.
Improved Orchestrated Integration User Interface	Blocks are reordered for improved usability.
Perform pipeline variable substitution	You can now perform pipeline variable substitution if you want to replace the value of a pipeline field at run time.
View execution results within Integration Cloud	You can now view the last five execution results in the Integration details page.
File Transfer Protocol (FTP/FTPS) Application	You can now connect to a FTP server using the new FTP/FTPS Application and download files from or upload files to the FTP-enabled server.
Added new services	New services are added under Flat File, JSON, and XML in this release.
WSDL file selection for a custom SOAP Application	You can now select a WSDL file from your local file system while creating a custom SOAP Application.
Ability to upload custom Application logos	You can now select a different icon for your custom SOAP Application.
Support for Partner or agent	You can now define Partner users. Even if "Allow User Interface Access" permission available under Access Profile > Administrative Permissions >

Added Item	Description
	Account Controls is not enabled, a Partner User can still perform on-premise tasks.
View and download Audit Logs and update the retention period	You can now view and download audit logs related to additions, deletions, updates, export, schedule, login, logout, password changes, record access attempts, access violations, deployments, and so on for a user.

Release 1.6.0

Added Item	Description
Advanced Security	Integration Cloud now allows you to upload Keystores, Truststores, and Partner Certificates. These can be applied while creating an Account for a Custom Application.
Custom SOAP Applications	Integration Cloud now allows you to create Custom SOAP Applications. Custom SOAP Applications enable you to access third party web services hosted in the cloud or on-premise environment. The Custom SOAP Application uses a WSDL that is accessible through publicly or locally accessible URLs.
Web Service Security	Integration Cloud now allows you to create Custom SOAP Applications with third party Web Services that have WS-Security policies annotated in them. The WS-Security policies are automatically acknowledged in Integration Cloud if those policies are enforced on the Web Services.
New Services	findDocuments, fuzzyMatch, bytesToStream, and streamToBytes services are added to Integration Cloud in this release.

Added Item	Description
Reference Data	Integration Cloud now allows you to upload Reference Data from a text file containing tabular data separated by a character. Reference data is a collection of key-value pairs, which can be used to determine the value of a data field based on the value of another data field. You can access the uploaded Reference Data in Orchestrated Integrations as a list of documents, by using the Reference Data block and providing an appropriate name.
Add fields to the pipeline	Integration Cloud now allows you to add a field to the pipeline while creating an Orchestrated Integration.

Release 1.5.1

Added Item	Description
Remove field *Restore* field	You can drop or remove an existing pipeline input field. Once you drop a field from the pipeline, it is no longer available to subsequent services. The field which is removed can be restored.

Release 1.5

Added Item	Description
Orchestrated Integration	Integration Cloud now supports advanced integration scenarios involving multiple application endpoints, complex routing, and orchestrations requiring multiple steps. Using a graphical drag and drop tool, you can create complex, orchestrated integrations and run them in the Integration Cloud environment.

Release 1.2

Added Item	Description
Better logging and auditing capabilities	For better debugging of the integration execution failures, more information is now provided in the "Execution Results" page.
Application Account enable and disable functionality	You can now configure the Account details correctly in a stage. If you have configured

	the Account details incorrectly in any stage, the stage will appear in red color in the "Connectivity Status" column. If an Account is configured correctly in a particular stage, then that stage will appear in green color, and if an Account is not configured in a particular stage, then that stage will appear in white color.
Ability to expose an Integration as a REST service	You can now trigger the execution of an Integration from an external system. This feature provides you with one more option to trigger Integration executions from a software application, for example, a REST Client, apart from manual and scheduled integrations from the user interface.
Amazon Simple Storage Service (S3)	An additional Application for Integration Cloud. Integration Cloud connects to Amazon Simple Storage Service (S3) using the REST interface and provides read, write, and delete access to the Amazon S3 buckets and objects within the Amazon instance.
Amazon Simple Queue Service (SQS)	An additional Application for Integration Cloud. Integration Cloud connects to Amazon Simple Queue Service (SQS) using the REST interface and provides access to the SQS objects within the Amazon instance.
StrikeIron Contact Verification	The StrikeIron Contact Verification Application has been added in this release.
Predefined operations added in Salesforce CRM	*getDeletedBusinessObjectIDs* - Fetches the ID field of business objects deleted within the provided timeframe.
	getUpdatedBusinessObjectIDs - Fetches the ID field of business objects updated within the provided timeframe.
Salesforce Bulk Data Loader	An additional Application for Integration Cloud. Integration Cloud connects to Salesforce using the Salesforce Bulk API version 29 and supports Job and Batch resources. You can use it to create, update, query jobs and batches, and operate on large number of records asynchronously by submitting batches which are processed in

	the background by Salesforce.
SuccessFactors HCM	An additional Application for Integration Cloud. Integration Cloud connects to SuccessFactors using the SuccessFactors web service SFAPI, and performs SuccessFactors operations (Create, Read, Update, Delete, Fetch, Insert, Query, queryMore, and Upsert) over HTTP, using synchronous SOAP protocols. This Application has been tested with the following business objects: GOAL$1, GOAL$2, GOAL$3, GoalMilestone$2, GoalMilestone$3, GoalTask$2, GoalTask$3, MatrixManager, and CustomManager.
ServiceNow Enterprise Service Management	An additional Application for Integration Cloud. webMethods Integration Cloud connects to different areas (Incident, Problem, and Change management) of ServiceNow using the Calgary version of the ServiceNow API. You can create incidents, get details of created incidents, and update and delete them. Similar operations are available for problem and change management cloud applications.

Release 1.1

Removed Item	Replacement, if any
StrikeIron Contact Verification	The *StrikeIron Contact Verification* Application has been temporarily removed. If you have created StrikeIron Accounts, Custom Operations, and Integrations, these will not function. The Application may be reintroduced in a future release.

Release 1.0

Added Item	Description
Initial Release	Initial Release

8.0 Copyright Information

9.0 Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the Tech Community website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

IL-RM-700-20211004

webMethods Integration Server 10.11 Readme

October 2021

This file contains important information you must read before using webMethods Integration Server 10.11. You can find user documentation on the [Documentation website](#) or the [Tech Community website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0 Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0 Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

- PIE-70941
  Integration Server throws a stack overflow error on refreshing a consumer REST API descriptor created from an Open API document.
  When a consumer REST API descriptor created from an Open API document containing cyclic references to schemas under components is refreshed, Integration Server throws 'java.lang.StackOverFlowError'.
  Currently, there is no workaround for this issue.

- PIE-71643
  Fields that would contain their "default" value are missing from the gRPC method service inputRecord.
  When the generated gRPC method flow service is invoked during the processing of a gRPC request, fields in the inputRecord that would have contained their default value may not be present in the pipeline. The default value of a field depends on its type. In general, numeric types default to 0, Boolean types default to false, and String types default to an empty string.
  To work around this issue, when implementing the logic of the gRPC method flow service, take the above behavior into account. Treat a field that is not present in the pipeline as though it contains the default value for its field type.

- PIE-71876
  When using a JVM from Azul, Integration Server might fail with "javax.security.auth.login.LoginException: No key to store" error during the validation of Kerberos tickets.
  This error is caused by an issue in Azul.
  In version 10.11, Integration Server and Microservices Runtime added the following to the startup scripts:
  -Djdk.security.auth.login.useCachedLoginModules=true
  Setting this property to false resolves the above issue but can also cause a significant performance degradation.
  To make this change for Integration Server, edit <Software AG_directory>/profiles/IS_<instanceName>/configuration/custom_wrapper.conf
  To makes this change for Microservices Runtime, edit <IntegrationServer_directory>/bin/server.bat|sh
  After setting -Djdk.security.auth.login.useCachedLoginModules=false, restart the server.

- PIE-71582
  Attempting to create a gRPC provider descriptor from a .proto file with spaces in the actual filename may result in a failure with the error message, java.lang.ClassNotFoundException.
  This can happen if the .proto file does not contain the "option java_outer_classname" parameter and is attempting to use the .proto file name as the outer classname.
  To work around this issue, rename the .proto file. removing any characters that are not valid java

identifier characters.

- **PIE-70330**
When the OpenID Connect redirection endpoint (wm.server.security.openid:codeCallback) returns an error, browsers will display ERR_INVALID_RESPONSE.
This has no known negative consequences, though it may give the impression that Integration Server is offline when it is not.

- **PIE-64352**
Scheduled tasks in Integration Server fail to execute after reactivating the associated solution in webMethods Cloud Container.
The target node of a scheduled task retains the IP address of the associated solution despite reactivating the solution in Cloud Container. When a solution is reactivated in Cloud Container, a new hostname or IP address is allocated to it and the target node in the scheduled task is expected to change accordingly. However, the scheduled task fails to execute as its target node still points to the previous IP address.
To work around this issue, update the scheduled task's target node with the new hostname or IP address of the solution on each reactivation.

- **PIE-68515**
Integration Server on cloud does not automatically restart after deployment of runtime configuration through Deployer using an Asset Composite Definition Language (ACDL) file.
Deployment of Integration Server runtime configuration from on-prem to cloud can be performed either through Command Central or Deployer. After Integration Server runtime configuration is deployed to a cloud instance using an ACDL file through Deployer, the Integration Server instance does not automatically restart. However, when the configuration is deployed to the cloud through Command Central, the Integration Server instance automatically restarts.
Use Command Central to deploy Integration Server runtime configuration on the cloud.

- **PIE-69953**
In Integration Server Administrator, security certificate expiry notifications are not automatically marked as read.
When an Integration Server security certificate expires, Integration Server Administrator displays a notification to inform the user about the expiration. However, despite replacing or deleting the expired certificate, the notification is not automatically marked as read.
To work around this issue manually mark such notifications as read.

- **PIE-71629**
Pagination issue when Integration Server fetches alerts from Tibero database.
If Integration Server uses the Tibero database to store alerts and the 'pub.alert:fetchUnread' and 'pub.alert:fetchAll' services are run to fetch alerts from the database, only alerts on the first page are displayed. However, at times, the alerts on the subsequent pages may not be displayed, which leads to inconsistent output from the services.
There is no workaround for this issue.

- **PIE-71634**
Pagination issue occurs when Integration Server fetches alerts from a DB2 database.

When the 'pub.alert:fetchUnread' or 'pub.alert:fetchAll' service runs to fetch alerts from the DB2 database, if the 'pageSize' parameter exceeds the count of unread alerts to be fetched at any point, Integration Server fails to fetch the remaining unread alerts. Typically, this happens when the 'pageSize' is more than the count of remaining unread alerts to be fetched and the 'pageNumber' represents the last page of the records.

The workaround is to pass the pageSize value as a multiple of 5.

- PIE-69925

  Integration Server license expiry notifications are not automatically marked read.

  Integration Server Administrator continues to display the license expiry notifications despite updating the license file.

  As a workaround, manually mark such notifications as read.

- PIE-71475

  The server logger for Microservices Runtime logs information messages of the Maverick SFTP client library.

  By default, the logging level for server logger in Microservices Runtime is 'Info'. However, information messages of the third-party Maverick SFTP client library are also logged in the server logs. This issue does not occur when the logging level is set to 'Warn'.

  Currently, there is no workaround for this issue.

- PIE-68895

  A global variable of the password type is displayed as encrypted text in Designer.

  During variable substitution in flow services, a password configured as a global variable is displayed as encrypted text instead of masked characters (*). This happens when Integration Server configuration containing global variables is deployed using Command Central.

  The workaround for this issue is to deploy global variables using ACDL files through Deployer.

- PIE-71650

  After migration to version 10.11, an Integration Server running on Solaris fails with an error message on startup.

  After using the migration utility to migrate to Integration Server 10.11 from an earlier version, Integration Server startup fails with the following error message in wrapper.log.

  ERROR | wrapper | 2021/08/28 12:25:42 | JVM exited while loading the application.

  INFO | jvm 5 | 2021/08/28 12:25:42 | Unrecognized option: -d64

  To work around this error, after migration, remove the following property from the custom_wrapper.conf file located under profiles/IS_default/configuration and then restart Integration Server.

  wrapper.java.additional.<NNN>=-d64

  Where NNN is a numeric number like 205

- PIE-70338

  The 'wm.server.ns:getNodes' service returns the class names of nodes in a package.

  When the 'wm.server.ns:getNodes' service is invoked with the Content-Type and Accept headers as application/json, the service returns the class names of the nodes, instead of the actual nodes of the package.

There is no workaround for this issue.

- **PIE-71425**

  Integration Server writes an access denied error to the server log every two minutes when a Designer user's password is updated in Integration Server but not in Designer.

  When a user's password is changed in Integration Server and that user is connecting to Integration Server from Designer, the Integration Server refuses the user's connection and writes the following error to the server log every two minutes until the user's password is updated in Designer:

  [ISS.0053.0002C] (tid=93) Access denied for user <user-name> on port <portNumber> -> 'wm-message' from 127.0.0.1.

  To work around this issue, update the password in the server definition in Designer. The server definition is located in Windows > Preferences > Software AG > Integration Servers.

- **DTS-1292**

  When Integration Server is configured to use an OpenID provider for authentication, the Integration Server Administrator forces a second login even if the OpenID provider already authenticated the user.

  This issue occurs with the new Integration Server Administrator only.

  There is no workaround for this issue.

- **DTS-1520**

  Some pages in the new Integration Server Administrator do not have a context-sensitive help link.

  To work around this issue, open the help by selecting ? > Administration and using the table of contents to navigate to the page.

- **DTS-1524**

  When Integration Server runs inside container with path-based routing, the user cannot login to Integration Server and Integration Sever Administrator does not work.

  There is no workaround for this issue.

- **DTS-1537**

  If the user is required to create a new password upon first log in and the user's first session expires before the user changes the password, the user is denied access on subsequent attempts to log in.

  To avoid this issue, change the password before the session expires.

- **DTS-1569**

  When CSRF guard is enabled, many breadcrumbs and dynamic server pages (DSPs) are displaying incorrect information and sometimes include extra breadcrumbs.

  When CSRF guard is enabled, the titles and breadcrumbs for some of the DSP pages are incorrect. The title will be close to correct; for example, the title may be "Licensing details" when it should be "Edit licensing details".

  There is no workaround for this.

  The breadcrumbs will also be very close to correct; however, there may be an additional breadcrumb or one less breadcrumb in the list.

  The workaround for this is to use the "Back" button on the browser.

  These problems are not present if CSRF guard is disabled.

- PIE-70982

  The system task scheduled for a notifier runs once even after the notifier is deleted or disabled.

  If the 'notifyInstantly' parameter is false and the 'intervalInSeconds' parameter has a value for a notifier, the system task scheduled for the notifier runs once even after the notifier is deleted or disabled.

  Currently, there is no workaround for this issue.

- PIE-71545

  Creating a gRPC provider descriptor may occasionally fail with the error message [ISS.0014.9116] Unable to locate or start compiler.

  This failure may be the result of a very long classpath or a large number of generated java files for the gRPC provider descriptor.

  To work around this issue, set the server configuration parameter watt.server.compile to an empty value and then attempt to create the gRPC provider descriptor.

- PIE-71517

  To enable the "Developer" user in Integration Server, an Administrator must run the 'sagcc update configuration data' command twice with the required parameters in the Command Central CLI.

  Authenticating Integration Server users with the default password is insecure. Therefore, Administrators disable the Developer and Replicator accounts, remove their default passwords, and then provide a secure password for these users before enabling them through User Management in Integration Server Administrator.

  Running the 'sagcc update configuration data' command from Command Central CLI must enable the "Developer" user. However, the user is not enabled unless the command is run twice, which is unexpected.

  Currently, there is no workaround for this issue.

- PIE-71475

  The server logger for Microservices Runtime logs information messages of the Maverick SFTP client library.

  By default, the logging level for server logger in Microservices Runtime is Info. However, information messages of the third-party Maverick SFTP client library are also logged in the server logs. This issue does not occur when the logging level is set to Warn.

  Currently, there is no workaround for this issue.

- PIE-71382

  The input and output document type references are missing in the service generated for a Provider Web Service Descriptor (WSD).

  The document type references are not shown in the Input and Output fields of the service generated for the WSDL-first Provider WSD. However, the Input and Output signatures of the service are intact and the WSD can be used without issues.

  As a workaround, set the value of the "watt.server.SOAP.identifyISGeneratedWSDL" server configuration parameter to "true" to see the document type references for the service on creating the WSDL-first Provider WSD.

- PIE-63099

Integration Server returns a misleading message when you update a KEX algorithm for an SFTP server alias.

When you update a KEX algorithm for an SFTP server alias, the algorithm is updated correctly. However, Integration Server returns a message indicating that a different algorithm is updated. You can ignore the message as it is incorrect.

- PIE-8533 (was 1-1Z6J9O)

  Integration Server does not shut down if an audit logging queue contains records waiting to be written to a destination.

  To work around this issue, wait for the records in the queue to be written to the destination.

- PIE-8045 (was 1-1Y1BZ7)

  Installing a package that contains a schema with a target namespace that is the same as an existing schema on the Integration Server may result in two sets of definitions or declarations for the same components.

  If you only need the schema definitions or declarations contained in one schema, delete the other schema. However, if you need definitions from both schemas, there is no workaround for this issue.

- WSC-515

  Known issue in the JVM Cipher implementation for certain JVM builds may cause decryption failures in Integration Server and other products that use the outbound password manager provided in Integration Server.

  A change in the PBEWithHmacSHA256AndAES_256 implementation causes Strings encrypted with the cipher in Open JDK builds 1.8.0_64 and before do not decrypt in later builds, beginning around build number 1.8.0_71. If your Integration Server runs on a JVM from Open JDK builds 1.80_64 up to, but not including 1.8.0_71, and then upgrade to Open JDK build 1.8.0_71 and after, passwords stored in the Integration Server outbound password manager cannot be decrypted.

  To avoid this issue, change the encryptor before upgrading the JVM. That is, store the password using the same handle but a different encryption code such as EntrustPbePlus.

  For information about changing the encryption method for the outbound password file and resetting outbound passwords, see the "Master Passwords and Outbound Passwords" chapter in the *webMethods Integration Server Administrator's Guide*. You can also change an outbound password using the pub.security.outboundPasswords:updatePassword service which is documented in the *webMethods Integration Server Built-In Services Reference*.

  A description of this Open JDK defect can be found here:

  https://bugs.openjdk.java.net/browse/JDK-8162690

  Note that the Open JDK defect description has some ambiguity regarding the build number in which this issue was introduced. The issue is observed in build number 1.8.0_74 but may have been introduced in earlier builds. Builds 1.8.0_64 through 1.8.0_74 were not tested by the defect reporter. The WSC-515 description cites build 1.8.0_71 as the Open JDK defect identities 71 as the "Introduced in version" value.

- PIE-8185 (was 1-1YBYQD)

  Web service connector ends with the error [ISC.0082.9034] Field is absent, field must exist.

  If the output signature of a service used as an operation in a provider web service descriptor (WSD) contains a field that has a namespace URI without a prefix, Integration Server adds a prefix when

generating a WSDL document for the provider WSD. In the consumer WSD created from the WSDL, the web service connector that corresponds to the operation (IS service) specifies a prefix for the field in the service output. However, the web service provider does not include a prefix with the field in the response. As a result, the contents of the SOAP response cannot be mapped to the web service connector output and the web service connector ends with the error [ISC.0082.9034] Field is absent, field must exist.

To avoid this issue, if a service will be exposed as a web service, always associate a prefix with a namespace URI for fields in the service signature.

- PIE-8494 (was 1-1Z342R)

  The xsi:nil attribute in an element does not convert properly when generating an IS document from an XML document.

  If an XML document has an element containing only xsi:nil as an attribute and an IS document is generated from that XML document using the pub.xml.xmlNodeToDocument service, the xsi:nil attribute is generated as an @xsi:nil field for the element in the resulting IS document. This occurs even if the element with the xsi:nil attribute has a simple type string; however, the document type that is created from the XML schema (which is used by the XML document) has a string field for the xsi:nil element instead of the IS document. There is a type difference between the generated document and the document type.

  To work around this issue, manually edit the generated IS document to remove the @xsi:nil attribute and then convert the IS document to string field.

- PIE-16451

  WSDL generated for a web service descriptor with a service signature, header document type, or a fault document type containing derived document types does not contain the schema definitions for the derived document types.

  To work around this issue, create a WSDL with the schema definitions for the derived document types and then create a WSDL first web service descriptor.

- PIE-18649

  When creating a WSDL first provider web service descriptor, Integration Server does not preserve the original service name from the WSDL document.

  When Integration Server generates a WSDL document for the provider web service descriptor, the service name will not match the service name in the source WSDL document.

  There is currently no workaround for this issue.

- PIE-19157

  IMAP email listener does not start.

  This issue occurs when an IMAP e-mail port is configured to receive requests from an e-mail server that uses NTLM for authentication. With this configuration, the following error is returned when the port is enabled:

  "Failed to start EmailListener:imap: <UserName>@<HostName>: [ISS.0070.9003] Enable failed: Could not log into account <UserName>@<HostName>"

  To resolve this issue, do one of the following:

  If you want to disable NTLM authentication, follow these steps:

     1. Open custom_wrapper.conf located under

<Software AG_directory>/ profiles/IS_default/configuration directory.

2. Add the following property:
   wrapper.java.additional.n=-Dmail.imap.auth.ntlm.disable=true
   where n is the next unused sequential number in the file.

3. Restart Integration Server.
   Note that this behavior is consistent with the past releases of Integration Server.

If you want to enable NTLM authentication, follow these steps:

1. Download jcifs-1.3.15.jar file from http://jcifs.samba.org/src/ into the
   <IntegrationServer_directory>/instances/<instanceName>/lib/jars or
   <IntegrationServer_directory>/lib/jars directory.

2. Restart Integration Server.

▪ PIE-22556

Java service throws java.lang.reflect.InvocationTargetException when attempting to use jars from <JRE_directory>/lib/ext directory, such as classes in the com.sun.crypto.provider package.

If you plan to use jars from the <JRE_directory>/lib/ext directory, you can avoid this issue by modifying the config.ini as follows:

1. Open the config.ini file located in
   <Software AG_directory>/profiles/IS_<instanceName>/configuration.

2. Add the following line:
   osgi.parentClassloader=app

3. Restart Integration Server.

Note: This issue does not apply to Microservices Runtime.

▪ PIE-58945

Integration Server does not support HTTP request or response compression for MTOM streaming and HTTP chunked transfer encoding.

Unexpected results may occur when using HTTP request or response compression function with MTOM streaming and HTTP chunked transfer encoding.

There is no workaround for this issue. Software AG recommends against using the HTTP compression function along with MTOM streaming and HTTP chunked transfer encoding.

▪ PIE-65633

Importing an OpenAPI document fails when the format is "date" and also contains an enum property with a date value or a default property with a date value.

When you create a provider REST API descriptor using an OpenAPI document that contains a property of type "string" and format as "date", and also contains an enum property with a date value or a default property with a date value, Integration Server throws an exception and does not import the OpenAPI document.

There is no workaround for this issue.

▪ PIE-65385

Integration Server throws an exception while importing an OpenAPI document containing a property of array type that holds an enum value.

While creating a provider REST API descriptor using an OpenAPI document that contains a property of type "array" having an enum value, Integration Server throws an exception and does

not import the OpenAPI document.

There is no workaround for this issue.

- PIE-66274

  Importing a WSDL with many operations results in a StackOverFlow error.

  Issues in the internal XML serialization of a WSDL cause the service to run out of stack space when importing a WSDL with many operations. This results in a StackOverFlow error.

  There is no workaround for this issue.

- PIE-66117

  The pub.client:smtp and pub.client:http services cannot process a javax.mail.internet.MimeMessage object.

  The pub.client:smtp and pub.client:http services cannot process a javax.mail.internet.MimeMessage object that is generated by the pub.mime:getEnvelopeStream service when the payload exceeds the watt.server.mime.largeDataThreshold.

  To work around this issue, the javax.mail.internet.MimeMessage object must be converted to a java.io.InputStream object before passing it to these services. Alternatively, consider increasing the value of the watt.server.mime.largeDataThreshold parameter to such an extent that the pub.mime:getEnvelopeStream service returns only InputStream objects.

  To convert a MimeMessage object to an InputStream, use the writeTo() method of MimeMessage to write to a file and then read the file as an InputStream.

- PIE-66046

  The pub.mime:getEnvelopeStream service could generate an out of memory error when adding a large number of files.

  There is no workaround for this issue.

- PIE-65481

  Some System tasks in the Integration Server may show a negative time interval.

  There is no workaround for this issue.

- PIE-66119

  An input file path for the pub.parquet:write service that contains a consecutive backslash and forward slash may cause unexpected results. For example, the path "packages/replicatePackage/resources\/testService2.parquet" in Linux creates a directory named "resources\" that cannot be traversed.

  To work around this issue, ensure the paths passed to the service are in the appropriate format for the operating system.

- PIE-65750

  The pub.json:documentToJSONString service does not handle the escape character correctly.

  There is no workaround for this issue.

- PIE-70558

  An Admin API query with POST method and /admin/port/* end-point creates an internal port in Integration Server without the Enterprise Gateway license.

  An Admin API query with POST method and /admin/port/* end-point creates an internal port in

Integration Server even if the installed license key does not support Enterprise Gateway. However, the port is not enabled.

There is no workaround for the issue.

- PIE-71557, PIE-71558

   If the keys in the JSON string input to the pub.json:jsonStringToDocument service are not available in the JSON document type, they are not transformed by the service.

   While transforming a JSON string to a Document using the pub.json:jsonStringToDocument service, if the 'strict' parameter is 'true' and the 'jsonDocumentTypeName' parameter is specified, any field that is absent in the JSON document type is not added to the resulting document, although the same field is present in the JSON schema used to create the JSON document type.

   As a workaround, set the 'strict' input parameter as 'false' so that the transformation from JSON string to Document is loosely based on the JSON document type.

- PIE-71213

   While creating a REST API descriptor from an OpenAPI document, if an operation response has a description field with an empty value, Designer throws an error.

   While creating a REST API descriptor from an OpenAPI document, Designer converts the document to an OpenAPI java model, and then back to string using the swagger parser external libraries. If an operation response in the OpenAPI document has a description field with an empty value, the field is removed, which makes the OpenAPI document invalid. Since the description for a response is a required field, Designer does not import the OpenAPI document and throws an exception like: "Failed to create REST API descriptor. Reason: [attribute paths.'/test'(put).responses.200.description is missing]"

   There is no workaround for this issue.

- PIE-70461

   An unauthorized user can cause a temporary denial-of-service attack by allowing an XML document to be defined with a Document Type Definition (DTD) that does not properly control the number of recursive definitions of entities. This results in an out of memory error and a temporary failure of Integration Server.

   Setting watt.core.xml.expandGeneralEntities to false may avoid this issue.

3.0   Usage Notes

This section provides any additional information you need to work with the current release of this product.

- Beginning with the 10.11 release, when you launch Integration Server Administrator, the redesigned interface loads by default. However, you can switch to the legacy interface temporarily by opening the home page of the WmRoot package. Alternatively, to use the legacy interface every time you start Integration Server, set the value of the watt.server.defaultPackage server configuration parameter to WmRoot.

- During installation of Integration Server, an option can be set requiring that the password for the Administrator user account be changed immediately upon successful log in to Integration Server

Administrator. If so, the Administrator user account password must be changed before the server can do anything else. Any requests sent to Integration Server before the Administrator password is changed will be rejected.

- Beginning with the 10.7 release, webMethods Integration Agent is no longer available. Use webMethods Microservices Runtime instead.

- Integration Server 10.11 no longer includes TLSv1.1 as a default enabled protocol. The default values for watt.net.jsse.client.disabledProtocols and watt.net.jsse.server.disabledProtocols now include TLSv1.1.

- Integration Server 10.7 supports TLS v1.3 for secure inbound and outbound connections that use JSSE. Integration Server 10.7 no longer includes TLSv1.0 as a default enabled protocol. To support this change, Integration Server removes the server configuration parameters watt.net.jsse.client.enabledProtocols and watt.net.jsse.server.enabledProtocols, replacing them with watt.net.jsse.client.disabledProtocols and watt.net.jsse.server.disabledProtocols, respectively. During migration of an earlier version of Integration Server to version 10.7, Integration Server detects the current values of watt.net.jsse.client.enabledProtocols and watt.net.jsse.server.enabledProtocols. Integration Server then uses those values to build the values for watt.net.jsse.client.disabledProtocols and watt.net.jsse.server.disabledProtocols.

- XML Schema 1.1 is not supported on AIX.
  The Xerces library in AIX supports XML Schema 1.0 only. Attempts to use XML Schema 1.1 features on an Integration Server running on AIX results in schema syntax errors and the schema does not compile.

- Use of MD5 signing algorithm is not supported when Integration Server runs in FIPS mode.

- Beginning in Integration Server 10.7, the pub.mime services have been enhanced to support large payloads. If any of your existing flow services use the pub.mime:createMimeData or the pub.mime:getEnvelopeStream services and you want to take advantage of the new functionality, you need to modify the follow services to use a javax.mail.internet.MimeMessage object instead of an InputStream. This would involve using the pipeline to change mapping for the service in question. Further, the watt.server.mime.largeDataThreshold value determines if the pub.mime:getEnvelopeStream service returns a javax.mail.internet.MimeMessage object instead of an InputStream. If you do not want invocations of pub.mime:getEnvelopeStream service to return a javax.mail.internet.MimeMessage object, increase the value of watt.server.mime.largeDataThreshold. You could also use convert a javax.mail.internet.MimeMessage to an InputStream using the javax.mail.internet.MimeMessage.writeTo().

- Integration Server does not support HTTP request or response compression for dynamic server pages (DSPs).

- Integration Server now includes the server configuration parameter watt.client.data.maxToStringLength which sets a limit on how long the String produced by IData.toString() can be. Previously, there was no limit to how long the produced String could be.

Introduction of a limit of the maximum String length for the IData.toString() response will impact any solutions that use IData.toString() to determine if two Strings were equivalent. Use the equals() method to determine if two IData objects are equivalent.

- webMethods Broker is deprecated.

- Before importing a Swagger document into Integration Server, validate the document using an external tool.

- In Universal Messaging version 10.0 the implementation of shared durables was rewritten to improve stability and performance. However, these changes were not compatible with the pub.publish:deliver* services which relied on the previous implementation of shared durables to ensure that delivered documents were routed by Universal Messaging to the intended destination. As of version 10.3 (and in fixes delivered on earlier releases), Universal Messaging implemented subscriber name filtering for its durable subscriptions. In subscriber name filtering, when a publisher designates a message for a specific subscriber, Universal Messaging routes the message to a consumer whose durable subscription name matches the designated subscriber name in the message. For Integration Server, the subscription name filtering requires some modifications, specifically:

  - Enable the subscription name filtering feature on Universal Messaging To enable the feature through Universal Messaging Enterprise Manager, navigate to the realm and select the Config tab. In the realm server configuration panel, click Show Advanced Config. Expand Advanced Configuration - Durable Config and set Durable Name Filtering to true.

  - Change the destID input parameter value in invocations of pub.publish:deliver and pub.publish:deliverAndWait, if necessary. This may only be necessary when the trigger to which the message is to be delivered contains an underscore in its name. For more information about client IDs for triggers and how this change may impact existing services that invoke pub.publish:deliver*, see the *Publish-Subscribe Developer's Guide*.

- PIE-58995
Previously, when creating a Dockerfile for an Integration Server that runs on Windows, the -Dimage.name parameter did not need to be specified because the is_container scripts referenced the base image tagged "latest" for Windows server containers. However, Microsoft now provides Windows image tags per OS version instead of a "latest" base image. This change prevents a Dockerfile from being created for an Integration Server running on Windows when the -Dimage.name parameter was not specified.
For an Integration Server running on Windows, the -Dimage.name parameter should be set as follows:
-Dimage.name=mcr.microsoft.com/windows/servercore:YourOsImageTag
Where YourOsImageTag is the tag for the Windows image created for the OS version on which Integration Server runs.

- Integration Server 10.4 and previous versions to which a fix including PIE-51049 was applied provide stricter validation for an inbound SOAP request. Validation of an inbound SOAP request message fails if the SOAP request body includes input fields that are not part of the service input

signature. This behavior change may be problematic for existing solutions. Integration Server includes a server configuration parameter named watt.server.soap.validateInput that can be used to control whether or not a validation error occurs when the inbound SOAP request includes fields that are not declared in the service input signature. Set this parameter to false to obtain the behavior that existed prior to 10.4 or applying a fix that includes PIE-51049.

▪ Take care when setting the watt.security.max* server configuration parameters. If the parameters values are set too low, Integration Server rejects legitimate requests. It is also possible to lock yourself out of Integration Server Administrator by setting the parameters too low. If this happens, you can try changing the configuration parameter values by invoking the wm.server.admin:setSettings service with a command-line HTTP client. If you are still unable to change the value of these parameters, you need to kill the Integration Server process, manually edit the parameters in the Integration Server_directory/instances/instanceName/config/server.cnf file, and restart Integration Server.

▪ PIE-32205
Integration Server does not provide Java-based NTLM (Windows NT LAN Manager) support for proxy servers that support NTLM authentication. You can only use the NTLM authentication support in Integration Server to allow clients to access resources on web servers that support NTLM authentication, such as Microsoft Internet Information Server (IIS).

▪ PIE-16497
Integration Server does not generate the *doctype field for IS document types generated from derived document types in a schema, when:
- Deriving a complex type from an empty complex type by extension.
- Deriving a complex type from a simple type by extension.

▪ PIE-42419
As of Integration Server 10.0, the Allow List for any new port with an Access Mode of "Deny by Default" now includes the wm.server.csrfguard:getCSRFSecretToken service and the wm.server.csrfguard:isCSRFGuardEnabled service. When migrating to Integration Server 10.0 or higher from a version lower than 10.0, for any existing ports with an Access Mode of "Deny by Default", you must manually update the Allow List to include the wm.server.csrfguard:getCSRFSecretToken and wm.server.csrfguard:isCSRFGuardEnabled services.

▪ PIE-48484
A web service request that specifies a content type of application/xml succeeds in versions of Integration Server prior to version 9.12. However, the web service request fails in Integration Server version 9.12. Prior to Integration Server 9.12, Integration Server did not provide out of the box support to directly handle the content type application/xml. If a content handler was not specified for application/xml, Integration Server used the default content handler. The default handling is the same as the handling of text/html, resulting in XML being placed in the pipeline as an inputStream . In version 9.12, Integration Server added a content handler named ContentHandler_XML to support the content type application/xml, resulting in the content being placed in the pipeline as an XML node. This behavior change causes the web service request to fail in version 9.12 because the web service expects an inputStream, not an XML node. To address this issue and avoid having to

change the service to accept an XML node instead of an inputStream, you can use the watt.server.content.type.mappings server configuration parameter to map the application/xml content type to the text/xml content type. Integration Server will use the text/xml content handler when receiving a request that specifies a content type of application/xml. Specify the following: watt.server.content.type.mappings=application/xml text/xml

- If your solution includes publishable document types with an encoding type of protocol buffers, you need to edit, save, and synchronize the publishable document types to Universal Messaging while the queues of subscribing triggers are empty. This ensures that subscribing triggers will not fail with a NullPointerException if you later choose to edit the publishable document type while queues of subscribing triggers contain published documents that conform to earlier iterations of the publishable document type.

- Integration Server 10.0 introduces the ability to enable or disable follow the master behavior on a per messaging connection alias basis. Prior to Integration Server 10.0, follow the master was enabled globally for webMethods messaging. The only way to disable follow the master behavior was to modify the custom_wrapper.conf file to include the wrapper.java.additional.n=-DFollowTheMaster=false where n was the next available wrapper.java.additional number. Do not use the DFollowTheMaster parameter to control the follow the master behavior for Integration Server. This parameter setting will override the follow the master behavior set in Universal Messaging connection aliases and JMS connection aliases.

- When securing web services using policies based on WS-SecurityPolicy, you cannot alter an inbound message before the security processing executes or alter an outbound message after the security processing completes. For inbound messages, Integration Server always performs the security processing first upon receiving the message. As a result, Integration Server cannot invoke custom handlers before the security processing of an inbound message. For outbound messages, Integration Server always performs the security processing last, right before it sends the message. As a result, Integration Server cannot invoke custom handlers after the security processing of an outbound message.

- Integration Server uses Xerces Java parser version Xerces-J 2.12.1-xml-schema-1.1. Limitations for this version are listed at https://xerces.apache.org/xerces2-j/.

- If you want to use WS-SecurityPolicy to secure a web service and want to use MTOM streaming, be aware that if the fields to be streamed are being signed and/or encrypted, Integration Server cannot use MTOM streaming because Integration Server needs to keep the entire message in memory to sign and/or encrypt the message.

- Web services security implemented using WS-Security facility in Integration Server does not support partial message operations (Sign/Encrypt). Integration Server allows only the body of the SOAP message to be signed and encrypted.

- Do not modify the following file unless instructed to do so by Software AG:
<IntegrationServer_directory>\instances\<instanceName>\config\wss\axis2.xml
Changes to this file may result in an unstable configuration. Software AG will not support issues that arise because of changes to this file that were not authorized by Software AG.

- Software AG does not support the deployment of custom handlers or modules via placement of an Axis Module (*.mar) file in the following directory:
<IntegrationServer_directory>\instances\<instanceName>\config\wss\modules
Unexpected behavior that arises due to the manual deployment of mar files directly to this location is the responsibility of the user and will not be addressed by Software AG.

- Software AG does not support the deployment of web services via placement of an Axis Archive (*.aar) file in the following directory:
<IntegrationServer_directory>\instances\<instanceName>\config\wss\services
Unexpected behavior that arises due to the manual deployment of aar files directly to this location is the responsibility of the user and will not be addressed by Software AG.

- In Integration Server version 10.1, the default behavior of the enhanced XML parser now prohibits the support of DTDs and resolution of external entity references. For the pub.xml:loadEnhancedXMLNode and pub.xml:XMLStringToEnhancedXMLNode services the inputProcessing\supportDTD input parameter and the inputProcessing\isSupportingExternalEntities now have a default value of false. If an existing solution relies in the previous default behavior (inputProcessing\supportDTD and inputProcessing\isSupportinExternalEntities were set to true), after migrating to Integration Server 10.1 or higher, you must update invocations of pub.xml:loadEnhancedXMLNode and pub.xml:XMLStringToEnhancedXMLNode to set inputProcessing\supportDTD and\or inputProcessing\isSupportinExternalEntities to true.

- Now, when you start Integration Server, Integration Server receives configuration settings (for example, the size of the Java heap) from the wrapper.conf and custom_wrapper.conf files located in the *Software AG_directory*\profiles\IS_*instance_name*\configuration directory. Integration Server no longer obtains settings from setenv.bat/sh or server.bat/sh.
If you need to modify the default property settings for Integration Server, you can override the settings using the custom_wrapper.conf file. The following table shows the settings formerly set in the setenv.bat/sh file that are now set using properties in the custom_wrapper.conf file:

This setting in setenv.bat/sh…	Is replaced with the following property in custom_wrapper.conf…
APPENDCLASSES/ APPEND_SYSTEM_CLASSPATH	wrapper.java.additional.203=-Dwatt.server.append.classes=
JAVA_CUSTOM_OPTS	wrapper.java.additional.*n*
JAVA_MAX_DIRECT_SIZE	wrapper.java.additional.*n*=XX:MaxDirectMemorySize=
JAVA_MAX_MEM	wrapper.java.maxmemory
JAVA_MAX_PERM_SIZE	wrapper.java.additional.*n*=XX:MaxPermSize=
JAVA_MIN_MEM	wrapper.java.initmemory
PREPENDCLASSES/ PREPEND_SYSTEM_CLASSPATH	wrapper.java.additional.202=-Dwatt.server.prepend.classes=

The following table shows settings you can change that were formerly in the setenv.bat/sh file, but are now located in other files or removed:

Setting	New location (if applicable)
DEBUG_ENABLED	*Software AG_directory*\profiles\IS_*instance_name*\bin\ startDebugMode.bat/sh
JAVA_PROFILER_OPTS/ PROFILER_ENABLED	Removed.
Java location	wrapper.java.command in *Software AG_directory*\ profiles\IS_*instance_name*\configuration\wrapper.conf
JMX_ENABLED	Removed. JMX monitoring is enabled by default and cannot be disabled.
JMX_PORT	The port property in *Software AG_directory*\profiles\IS_*instance_name*\configuration\ com.software.jmx.connector.pid-*port*.properties

The startup.bat/sh and shutdown.bat/sh scripts contained in the *Integration Server_directory*\instances*instance_name*\bin and *Integration Server_directory*\bin directories are deprecated. You should use the scripts contained in the *Software AG_directory*\profiles\IS_*instance_name*\bin directory to start and stop Integration Server. If you will manage Integration Server through Command Central, you *must* use the scripts located in the *Software AG_directory*\profiles\IS_instance_name\bin directory.
The installSvc.bat file located in *Integration Server_directory*\instances*instance_name*\support\win32 directory is also deprecated. You should use the service.bat file from the *Software AG_directory*\profiles\IS_*instance_name*\bin directory to register or remove an Integration Server instance as a Windows service.
For complete instructions for using any of the features affected by these changes, see *webMethods Integration Server Administrator's Guide* and *Working with the webMethods Product Suite and the Java Service Wrapper*.

4.0   Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Release 10.11

- IS_9.7_Core_Fix36

- IS_9.8_Core_Fix31

- IS_9.9_Core_Fix36

- IS_9.12_Core_Fix30

- IS_9.12_SPM_Fix9

- IS_9.12_WmCloud_Fix5

- IS_10.1_Core_Fix23

- IS_10.1_SPM_Fix7

- IS_10.1_WmCloud_Fix5

- IS_10.3_ABE_Fix3

- IS_10.3_Core_Fix17

- IS_10.3_Migration_Fix2

- IS_10.3_SPM_Fix9

- IS_10.3_WmCloud_Fix4

- IS_10.5_ABE_Fix2

- IS_10.5_Core_Fix10

- IS_10.5_Database_Fix2

- IS_10.5_Migration_Fix2

- IS_10.5_SPM_Fix8

- IS_10.5_WmCloud_Fix3

- IS_10.7_Core_Fix4

- IS_10.7_SPM_Fix1

- IS_10.7_WmAdmin_Fix2

- WAR_9.12_Fix7

- WAR_10.3_Fix14

- WAR_10.5_Fix5

Release 10.7

- IS_9.5_SP1_Core_Fix23

- IS_9.6_Core_Fix23

- IS_9.7_Core_Fix34

- IS_9.8_Core_Fix30

- IS_9.9_Core_Fix36

- IS_9.10_Core_Fix24

- IS_9.12_Core_Fix28

- IS_9.12_SPM_Fix9

- IS_9.12_WmCloud_Fix5

- IS_10.1_Core_Fix20

- IS_10.1_SPM_Fix7

- IS_10.1_WmCloud_Fix5

- IS_10.3_ABE_Fix2

- IS_10.3_Core_Fix13

- IS_10.3_Migration_Fix1

- IS_10.3_SPM_Fix8

- IS_10.3_WmCloud_Fix4

- IS_10.5_ABE_Fix2

- IS_10.5_Core_Fix6

- IS_10.5_Database_Fix1

- IS_10.5_Migration_Fix2

- IS_10.5_SPM_Fix5

- WAR_9.8_Fix5

- WAR_9.10_Fix5

- WAR_9.12_Fix5

- WAR_10.1_Fix6

- WAR_10.3_Fix13

- WAR_10.5_Fix4

Release 10.5

- IS_9.5_SP1_Core_Fix21

- IS_9.6_Core_Fix21

- IS_9.7_Core_Fix29

- IS_9.8_Core_Fix25

- IS_9.9_Core_Fix32

- IS_9.10_Core_Fix19

- IS_9.10_SPM_Fix3

- IS_9.12_Core_Fix22

- IS_9.12_SPM_Fix7

- IS_10.1_Core_Fix13

- IS_10.1_SPM_Fix5

- IS_10.3_Core_Fix5

- IS_10.3_SPM_Fix2

- IS_10.4_Core_Fix2

- IS_10.4_SPM_Fix1

- WAR_9.12_Fix4

- WAR_10.4_Fix2

- WFF_9.12_Fix4

- WFF_10.1_Fix6

Release 10.4

- IS_9.5_SP1_Core_Fix20

- IS_9.6_Core_Fix20

- IS_9.7_Core_Fix28

- IS_9.8_Core_Fix25

- IS_9.9_Core_Fix29

- IS_9.10_Core_Fix17

- IS_9.12_Core_Fix21

- IS_9.12_SPM_Fix6

- IS_9.12_WmCloud_Fix3

- IS_10.1_AssetPublisher_Fix1

- IS_10.1_Core_Fix11

- IS_10.1_MobileSupport_Fix1

- IS_10.1_WmCloud_Fix1

- IS_10.3_Core_Fix3

- IS_10.3_SPM_Fix2

- IS_10.3_WmCloud_Fix1

- WAR_9.8_Fix4

- WAR_9.9_Fix3

- WAR_9.12_Fix3

- WAR_10.1_Fix4

- WAR_10.3_Fix4

- WFF_9.7_Fix7

- WFF_10.1_Fix3

- WFF_10.3_Fix2

Release 10.3

- IS_9.5_SP1_Core_Fix19

- IS_9.7_Core_Fix25

- IS_9.8_Core_Fix21

- IS_9.9_Core_Fix26

- IS_9.10_Core_Fix15

- IS_9.12_Core_Fix17

- IS_9.12_SPM_Fix5

- IS_10.1_Core_Fix5

- IS_10.1_SPM_Fix3

- IS_10.2_Core_Fix2

- MIG_9.10_MigrationFramework_Fix1

- MIG_9.12_MigrationFramework_Fix4,

- WFF_10.1_Fix2

Release 10.2

- IS_8.2_SP2_Core_Fix24

- IS_9.0_SP1_Core_Fix21

- IS_9.5_SP1_Core_Fix18

- IS_9.6_Core_Fix18

- IS_9.7_Core_Fix22

- IS_9.8_Core_Fix18

- IS_9.9_Core_Fix22

- IS_9.10_Core_Fix11

- IS_9.12_Core_Fix14

- IS_9.12_SPM_Fix4

- IS_10.0_Core_Fix3

- IS_10.0_WmCloud_Fix3

- IS_10.1_Core_Fix3

- IS_10.1_SPM_Fix1

- MIG_9.12_MigrationFramework_Fix3

- MIG_10.1_MigrationFramework_Fix1

- WFF_9.7_Fix6

- WFF_9.9_Fix4

- WFF_9.12_Fix3

Release 10.1

- IS_8.2_SP2_Core_Fix23

- IS_9.0_SP1_Core_Fix20

- IS_9.5_SP1_Core_Fix17

- IS_9.6_Core_Fix16

- IS_9.7_Core_Fix19

- IS_9.8_Core_Fix15

- IS_9.8_Tanuki_Fix1

- IS_9.9_Core_Fix15

- IS_9.9_SPM_Fix4

- IS_9.10_Core_Fix9

- IS_9.10_SPM_Fix2

- IS_9.10_Tanuki_Fix

- IS_9.12_Core_Fix7

- IS_9.12_SPM_Fix2

- IS_9.12_WmCloud_Fix2

- IS_10.0_Core_Fix1

- IS_10.0_WmCloud_Fix2

- MIG_9.12_MigrationFramework_Fix1

- WAR_9.7_Fix3

- WAR_9.8_Fix4

- WAR_9.9_Fix2

- WAR_9.10_Fix3

- WAR_9.12_Fix1

- WFF_9.6_Fix5

- WFF_9.9_Fix3

- WFF_9.10_Fix1

- WFF_9.12_Fix1

Release 10.0

- IS_8.2_SP2_Core_Fix22

- IS_9.0_SP1_Core_Fix18

- IS_9.5_SP1_Core_Fix14

- IS_9.6_Core_Fix13

- IS_9.7_Core_Fix14

- IS_9.7_SPM_Fix3

- IS_9.7_SubVersion_Fix1

- IS_9.7_Tanuki_Fix1

- IS_9.7_VCS_Fix1

- IS_9.7_WmCloud_Fix4

- IS_9.8_Core_Fix11

- IS_9.8_SPM_Fix2

- IS_9.8_VCS_Fix1

- IS_9.8_WmCloud_Fix1

- IS_9.9_Core_Fix9

- IS_9.9_SPM_Fix3

- IS_9.9_Tanuki_Fix1

- IS_9.9_VCS_Fix1

- IS_9.9_WmCloud_Fix1

- IS_9.10_Core_Fix6

- IS_9.10_SPM_Fix1

- IS_9.10_VCS_Fix1

- IS_9.10_WmCloud_Fix1

- IS_9.12_Core_Fix4

- IS_9.12_WmCloud_Fix1

- WAR_9.6_Fix5

Release 9.12

- IS_8.0_SP1_Core_Fix32

- IS_8.2_SP2_Core_Fix20

- IS_9.0_SP1_Core_Fix14

- IS_9.5_SP1_Core_Fix11

- IS_9.7_Core_Fix8

- IS_9.7_Tomcat6_Fix2

- IS_9.8_Core_Fix5

- IS_9.9_Core_Fix2

- IS_9.9_SPM_Fix2

- IS_9.10_Core_Fix1

- IS_9.10_OData_Fix1

- WAR_9.7_Fix2

- WAR_9.8_Fix3

- WAR_9.10_Fix2

- WFF_8.2_SP2_Fix6

- WFF_9.5_SP1_Fix4

- WFF_9.6_Fix4

- WFF_9.8_Fix1

- WFF_9.9_Fix1

Release 9.10

- IS_7.1.3_Core_Fix28

- IS_8.2_SP2_Core_Fix19

- IS_9.0_SP1_Core_Fix13

- IS_9.5_SP1_Core_Fix10

- IS_9.5_SP1_Portal_Fix3

- IS_9.6_Core_Fix9

- IS_9.7_Core_Fix5

- IS_9.7_Portal_Fix4

- IS_9.8_SPM_Fix1

- IS_9.9_Core_Fix1

- IS_9.9_SPM_Fix1

- WAR_9.5_SP1_Fix6

- WAR_9.8_Fix2

- WFF_8.2_SP2_Fix5

- WFF_9.0_SP1_Fix2

- WFF_9.5_SP1_Fix3

- WFF_9.6_Fix1

- WFF_9.7_Fix4

5.0 Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Release 10.7

- PIE-55371
  Creating a JSON document type fails if the enum keyword contains an empty array as one of its elements in JSON schema.
  When creating a JSON document type if JSON schema contains enum keyword with an empty

array as one of its elements, then Integration Server writes a service exception to the error log.
This issue is resolved.

- PIE-55402
Integration Server does not create the URL alias automatically while creating a REST API descriptor (RAD) using resource first approach.
While creating a RAD using the resource first approach, Integration Server does not create the URL alias automatically if the basepath is updated.
This issue is now resolved.

- PIE-55771
JSON schema validation fails but error messages are not clear as to the cause.
If validation fails for the JSON schema constructs 'anyOf', 'allOf' and 'oneOf' keyword, the error messages do not clearly indicate the cause or location of the validation failure.
This issue is now resolved.

- PIE-57239
Integration Server generates invalid Swagger document after creating a provider REST API descriptor (RAD).
When user creates a provider RAD using a Swagger document that contains an inline schema in the body or in the response, then Integration Server generates an invalid Swagger document while creating the provider RAD.
This issue is resolved.

- PIE- 57903
Attempting to create a JSON document type from a JSON schema that contains a cyclic reference at the property level might cause out of memory errors.
This issue is now resolved.

- PIE-58826
When deploying the JNDI configuration for ActiveMQ to Cloud, the provider URL is incorrectly changed to point to Universal Messaging.
This issue is now resolved.

- PIE-58587
Designer should not allow adding an OAuth type security definition for a REST API descriptor if the scope name added in Integration Server contains a large string. Currently Designer does not display any error while adding the security definition.
Desginer now displays the following message when the scope length is too long: The scope name, *scopeName* exceeds the maximum length.

- PIE-58525
Integration Server allows to access a resource with incorrect authentication type.
After assigning OAuth type security definition for a resource, Integration Server allows accessing the resource using basic authentication without any error.
This issue is resolved.

- PIE-58673
  Integration Server adds incorrect output to the REST connector service while executing it.
  While executing a REST connector service, if the REST API returns an undefined data in the response, then Integration Server adds that data in the connector service output.
  This issue is resolved.

- PIE-58658
  Integration Server throws an exception while creating a REST API descriptor (RAD) from a Swagger file containing a path defined as '/test/{id}-{name}'.
  While importing a valid Swagger file to create a RAD, if the Swagger file contains a path having multiple path parameters in a single URI segment, Integration Server throws a validation error.
  This issue no longer occurs.

- PIE-58847
  Integration Server throws NullPointerException while calling a connector service in a consumer REST API descriptor (RAD).
  If a consumer RAD is created and then renamed, an attempt to run any of the connector service, ends with a NullPointerException.
  There is no workaround for this issue.

- PIE-58862
  Using the Integration Server Administrator UI to set the Kerberos "Use Subject Credentials Only" property (which corresponds to the "javax.security.auth.useSubjectCredsOnly" field) on the Security > Kerberos > Kerberos Settings screen sets an incorrect property.
  This issue is now resolved.

- PIE-58919
  A StringIndexOutOfBoundsException occurs when the root service wm.server.apigateway:getApiData tries to fetch details of published APIs from an API Gateway instance running on a different machine.
  This issue is now resolved.

- PIE-58996
  Consumer endpoint aliases with Kerberos as the authentication method are not editable.
  This issue is now resolved.

- PIE-59175
  Command Central displays incorrect status of the OSGI-IS_{is_instanceName} component.
  Command Central incorrectly displays the status of the OSGI-IS_{is_instanceName} component in the Instances tab as "STARTING" even when the child nodes do not have a Platform Manager plugin Offline implementation. This issue occurs only after an Integration server restart.
  This issue is now resolved.

- PIE-59266
  Designer displays the erroneous input parameter 'secure' under the service signature of pub.client:restClient service.
  This issue is resolved.

- WFF-612

  Composite definitions for fixed-length record parsers without delimiters do not get parsed.
  This issue is resolved. Support for composite definitions for fixed-length record parsers without delimiters can now be done through flat file schema generation wizard.

- WFF-636

  In Integration Server, when the newly added "recordIdentifierPre105Version" property is set to true the record identifier will not be added to pub.flatFile:convertToString service output for composite fields.

- WFF-664

  There is no input to handle line separators other than modifying the flat file schema record delimiter based on the Operating System where Integration Server is running.
  To resolve this, a new input 'lineSeparator' is added to the delimiters input document in the pub.flatFile:convertToString service to specify how handle CRLF/LF/CR line separators in the service output.

Release 10.3

- PIE-48958 [IS_10.1_Core_Fix5]

  When creating a document type from XML string in Integration Server, an XML external entity attack was possible during the validation of XML string.
  The issue is now resolved. After the fix, Integration Server rejects such XML with the following message - "XML provided is not well-formed or external references encountered while parsing XML - <specific error message>". - "

- PIE-47905 [IS_10.2_Core_Fix2, IS_9.10_Core_Fix12, IS_9.12_Core_Fix15]

  Application Platform does not initialize properly when Integration Server startup does not complete within 5 minutes.
  To resolve this issue, Integration Server registers the OSGi services before continuing with the rest of startup. This allows Application Platform to initialize properly even if Integration Server takes longer than 5 minutes to complete startup.

- PIE-50428 [IS_10.2_Core_Fix2, IS_9.12_Core_Fix16]

  Element in outbound SOAP message is associated with the incorrect namespaces.
  When an attribute on an element redefines the XML namespace prefix for an element to be a different URL from the one defined in the WSDL document and WS-Security processing is engaged, the element in the outbound SOAP message is associated with the incorrect namespace. This issue is now resolved.

- PIE-50562 [IS_10.2_Core_Fix2, IS_9.12_Core_Fix16]

  Generation of a consumer web service descriptor or WSDL first provider web service descriptor fails with a WSDLException.
  If a WSDL document contains an empty targetNamespace attribute, an attempt to create a web

service descriptor from the WSDL document fails with the following exception:
WSDLException: faultCode=PARSER_ERROR: Problem parsing '- WSDL Document -'.:
org.xml.sax.SAXParseException: The value of the attribute
"prefix="xmlns",localpart="tns",rawname="xmlns:tns"" is invalid. Prefixed namespace bindings may
not be empty.
Now, when creating a web service descriptor from a WSDL document that contains an empty
targetNamespace attribute, Integration Server no longer generates the xmlns:tns= attribute.
Note: This fix resolves the issue for consumer web service descriptors completely. However, to fully
resolve the issue for WSDL first provider web service descriptors, you must also install a Web
Services Stack fix that includes WSSTACK-2783.

- PIE-51285 [IS_10.2_Core_Fix2, IS_9.12_Core_Fix17]
  The enhanced XML parser throws an ArrayIndexOutOfBoundsException when more than 20
  attributes are present on a node.
  With this fix, there is longer a limit to the number of attributes on a node which prevents the
  ArrayIndexOutOfBoundxException.

- PIE-50185 [IS_10.2_Core_Fix2]
  Integration Server does not close a socket connection after SSL handshake fails.
  If Integration Server establishes the socket connection using JSSE and then if the SSL handshake
  fails, the socket connection remains open.
  The issue is now resolved. Integration Server now closes the socket connection after SSL handshake
  fails.

- PIE-51486 [IS_10.2_Core_Fix2]
  When entering quiesce mode Integration Server shuts down all cache managers available in a JVM
  instead of just the cache managers started by Integration Server.
  This issue is now resolved.

- PIE-51047 [IS_9.10_Core_Fix14, IS_9.12_Core_Fix17, IS_9.7_Core_Fix24, IS_9.8_Core_Fix21,
  IS_9.9_Core_Fix25]
  When editing existing keystore and truststore aliases, the configured "Type" and "Provider Type"
  fields show incorrect input.
  When editing existing keystore and truststore aliases properties, the values
  or the "Type" and "Provider" fields are reset to "JKS" and "SUN" instead of the configured values
  set during the creation of keystore and truststore aliases.
  The issue is resolved. Integration Server now preserves the settings used during the creation of
  keystore and truststore aliases.

- PIE-51909 [IS_9.10_Core_Fix14, IS_9.12_Core_Fix17, IS_9.7_Core_Fix24, IS_9.8_Core_Fix21,
  IS_9.9_Core_Fix25]
  Long latencies observed when using SFTP.
  Concurrent execution of the pub.client.sftp:login service and/or methods in the underlying class
  com.wm.app.b2b.server.sftp.client.SFTPSessionManager may result in long latencies which are
  caused by synchronization.
  To address this issue and improve multi-threading support, synchronization statements deemed

unnecessary were removed.

- PIE-49804 [IS_9.10_Core_Fix14, IS_9.12_Core_Fix17, IS_9.9_Core_Fix25]
  Enhancements in web service connectors to process messages in an order.
  When creating a consumer web service descriptor from a WSDL document, Integration Server
  creates a web service connector for each operation contained in the WSDL document. These
  connectors do not provide a facility to process messages in an order.
  The issue is now resolved. Integration Server now uses message numbers that are unique identifiers
  used by the reliable messaging sequence.

- PIE-51892 [IS_9.10_Core_Fix14, IS_9.12_Core_Fix17, IS_9.9_Core_Fix25]
  FTP thread hangs during FTP put operation.
  During an FTP file transfer using the FTP put command from client to server, where Integration
  Server acts as the server, if a network issue occurs, then the FTP thread hangs and it never times
  out. This issue happens only in Passive mode.
  The issue is now resolved.

- PIE-51663 [IS_9.10_Core_Fix14, IS_9.12_Core_Fix17]
  Integration Server acting as FTPS client cannot connect to an FTPS server.
  An Integration Server acting as FTPS client cannot connect to an FTPS server using JSSE.
  Integration Server uses JSSE when the secure/useJSSE input parameter for the pub.client.ftp*
  service is set to yes.
  The issue is now resolved.

- PIE-52091 [IS_9.10_Core_Fix14, IS_9.8_Core_Fix21, IS_9.9_Core_Fix26]
  When watt.net.http401.throwException is false and the pub.client:http service does not get a
  response from the server to which it is trying to connect, Integration Server throws a
  NullPointerException instead of a ServiceException.
  This issue is now resolved.

- PIE-51877 [IS_9.10_Core_Fix14, IS_9.9_Core_Fix25]
  Integration Server throws a ConcurrentModificationException when initializing a connection from
  a JDBC connection pool.
  This issue is resolved by updating methods in an internal class to use locking.

- PIE-49739 [IS_9.10_Core_Fix14]
  Public service setKeyAndChainFromBytes does not work properly if the SSL key differs from the
  default SSL key in Integration Server Administrator.
  If an SSL key is configured in the Integration Server Administrator (Security > Certificates) is
  different from the one set using the setKeyAndChainFromBytes service, then Integration Server
  does not send the SSL key set by setKeyAndChainFromBytes service for connections using JSSE.
  Normally, SSL key set using the setKeyAndChainFromBytes service takes precedence over the one
  set in the Integration Server Administrator.
  This issue is resolved now.

- PIE-50123 [IS_9.10_Core_Fix15, IS_9.12_Core_Fix17]
  ODATA $filter query fails when there is an ampersand (&) in the search string.

When using the Integration Server OData implementation to query the OData entity with a filter containing the ampersand character (&). For example: $filter=SAMPLE eq 'Text1 & Text2'), Integration Server returns an incorrect result.

Integration Server now returns a proper result; however, the query string that uses & must be properly encoded before Integration Server receives the query. For example: $filter=SAMPLE%20eq%20%27Text1%20%26%20Text2%27

- PIE-51631 [IS_9.10_Core_Fix15, IS_9.7_Core_Fix25]
  The pub.document:searchDocuments service behaves differently than expected.
  The pub.document:searchDocuments service functions differently from the expected behavior, which is documented in the webMethods Integration Server Built-In Services Reference.
  This issue is now resolved.

- PIE-51101 [IS_9.12_Core_Fix16, IS_9.12_Core_Fix17]
  No option to set custom truststore while invoking pub.client:http service.
  The pub.client:http service uses the default truststore alias (DEFAULT_IS_TRUSTSTORE) while establishing a secure connection with HTTP server. Integration Server does not provide the option to set custom truststore while invoking this service.
  This issue is resolved. Now, a new input parameter "trustStore" is included in pub.client:http service to set the custom truststore alias while invoking this service.

- PIE-49598 [IS_9.12_Core_Fix17]
  Integration Server does not validate the SSL certificate expiry while using JSSE.
  Integration Server does not validate the SSL certificate expiry in a certificate chain of an incoming connection request from an Internet resource while it is configured to use JSSE. Hence, even if the certificate has expired, Integration Server does not reject the request.
  This issue is now resolved.

- PIE-50404 [IS_9.12_Core_Fix17]
  Input parameter value of scheduled task is overwritten with the latest value of input parameter in flow service.
  An assigned input value in scheduler task is overwritten with the latest value set for the corresponding flow service. This impacts the value of the input parameter in the scheduled task.
  This issue is now resolved.

- PIE-51293 [IS_9.12_Core_Fix17]
  Execution of a web service connector ends with a NullPointerException.
  Execution of a web service connector for a consumer web service descriptor generated from a WSDL document containing multiple service definitions ends with a NullPointerException. This occurs because Integration Server did not create the BRANCH steps correctly when creating the connector.
  Now, Integration Server generates the correct BRANCH steps for web service connectors created from a WSDL document with multiple service definitions.
  Note: After applying this fix, you must recreate or refresh the consumer web service descriptor to generate web service connectors with the correct BRANCH steps.

- PIE-51300 [IS_9.12_Core_Fix17]

webMethods messaging trigger ends with the exception
com.google.protobuf.InvalidProtocolBufferException: Protocol message contained an invalid tag (zero).
If a publishable document type specifies an encoding type of Protocol buffers and saving changes to the document type results in warning messages about field names not being valid for protocol buffer encoding, trigger processing fails for instances of the publishable document type with the following exception:
com.wm.app.b2b.server.dispatcher.exceptions.MessagingCoderException: java.io.IOException: com.google.protobuf.InvalidProtocolBufferException: Protocol message contained an invalid tag (zero)
This issue occurs because of an error in how Integration Server encodes the UnknownFieldSet when publishing a document. The UnknownFieldSet contains fields that cannot be represented in a protocol buffer message descriptor.
This issue is resolved by changing the way in which Integration Server encodes the UnknownFieldSet at the time of publication. This encoding change affects only those documents published after the fix is installed. Existing, unprocessed documents that use the improperly encoded UnknownFieldSet must be removed to prevent the occurrence of InvalidProtocolBufferException: Protocol message contained an invalid tag (zero). Make sure the client side queue for the Universal Messaging connection alias that publishes instances of the document type is empty. Additionally, make sure to use Universal Messaging Enterprise Manager to delete the channel associated with the publishable document type. Deleting the channel removes any instance documents encoded with the invalid zero key. Integration Server recreates the channel when it is restarted after fix installation.

- PIE-51613 [IS_9.12_Core_Fix17]
  Integration Server does not start if the distributed service results cache contains invalid entries.
  If the distributed service results cache contains invalid entries, Integration Server exits with an error similar to the following.
  Error occurred while initializing server: java.lang.StringIndexOutOfBoundsException: String index out of range: -1 at java.lang.String.substring(String.java:1967) at com.wm.app.b2b.server.ostore.ServiceCacheImpl.getKeySvc(ServiceCacheImpl.java:350) at com.wm.app.b2b.server.ostore.ServerCache.load(ServerCache.java:110) com.wm.app.b2b.server.CacheManager.startSweeper(CacheManager.java:128) at com.wm.app.b2b.server.Server.run(Server.java:644)
  This issue is now resolved.

- PIE-52025 [IS_9.12_Core_Fix17]
  Unable to restart Integration Server in a clustered environment.
  After installing a fix that contains PIE-45163, restarting Integration Server in a clustered environment fails if there is scheduled task with target set to 'All'. Also, the pub.scheduler:getTaskInfo service returns incorrect status of a running task.
  These issues are now resolved.

- PIE-50807 [IS_9.7_Core_Fix24]
  Integration Server fails to read the restore file.
  Integration Server throws an exception while restoring pipeline from file using the

pub.flow:restorePipelineFromFile service. The issue has occurred because an incorrect data type was defined to one of the input fields in the file while saving pipeline.
This issue is now resolved.

▪ PIE-50102
Integration Server fails to update the REST API descriptor(RAD) containing REST V2 resources.
In Designer, while making changes to the REST V2 resources or the services associated with the operations of the resources, Integration Server fails to update the RAD that contains the REST V2 resources.
The issue is now resolved.

▪ PIE-50180
Decoding a dynamic parameter with unicode characters fails to decode accurately.
Integration Server fails to correctly decode the unicode characters in the dynamic parameter of a REST request.
This issue is now resolved.

▪ PIE-50348
Integration Server fails to add comments to the generated document.
When creating a REST API descriptor from a Swagger document, if a definition in the Swagger document contains comments, Integration Server fails to add those comments to the corresponding Comments tab of generated docTypes.
This issue is now resolved.

▪ PIE-50352
In a REST API descriptor, variables of type File get converted to type String.
When creating a REST API descriptor from a Swagger document, Integration Server represents a file type as a String instead of a document.
This issue is resolved. Since Integration Server does not support the File type, variables of type File are converted to Object type.

▪ PIE-50359
Integration Server clears the response code from a REST API descriptor.
When adding a new response code to a resource in REST API descriptor and then moving the resource from one package to another, Integration Server removes all the new response codes from REST API descriptor.
This issue is now resolved.

▪ PIE-50616
Unable to create a REST API Descriptor for REST resources with documents with cyclic references.
Creating a REST API descriptor for REST resources with services that have documents with cyclic references fail.
This issue is now resolved.

▪ PIE-50639
Clicking the Log Off link in Integration Server Administrator causes Internet Explorer to log the user out of all Integration Servers in all Internet Explorer tabs.

This issue is resolved. Clicking the Log Off link in an Internet Explorer tab now logs the user out of the Integration Server in the current tab only. If the user is logged in to the same Integration Server through multiple tabs, logging off the Integration Server on one tab logs the user off of that same Integration Server on the other tabs as well.

- **PIE-50642**
  Integration Server displays '405 method not found' error while executing a URL at run time that is added to a REST API descriptor(RAD).
  While adding two similar URLs to a RAD with different HTTP methods, Integration Server might display '405 method not found' error while executing one of the
  URLs during run time.
  The issue is now resolved.

- **PIE-50780**
  The pub.client:http service ends with a NullPointerException if useJSSE is set to yes and the default truststore is not configured.
  If the default truststore is not configured, the watt.security.cert.wmChainVerifier.trustByDefault parameter is set to false, the pub.client:http service sets useJSSE to yes, the pub.client:https service ends with a NullPointerException but should not.
  This issue is now resolved.

- **PIE-51052**
  When migrating JDBC connection pools, Integration Server migration utility reports the following error. "Error message: String index out of range: -1"
  This issue occurs because of the non-XML files present in the <IntegrationServer_installDirectory>\instances\<instance_name>\config\jdbc\pool folder.
  This issue is now resolved. Integration Server migration utility correctly migrates JDBC connection pools.

- **PIE-51268**
  Integration Server displays incorrect error messages when certain services belonging to pub.string folder are invoked without the required inputs.
  Integration Server throws incorrect error messages when the pub.string:tokenize , pub.string:numericFormat ,pub.string:padLeft , pub.string:padRight services are invoked.

- When invoked without the required inputs com.wm.app.b2b.server.ServiceException: java.lang.NullPointerException is thrown and com.wm.app.b2b.server.ServiceException: java.lang.NumberFormatException is thrown when invoked with invalid inputs
  This issue is now resolved. Now, Integration Server displays the following appropriate error messages:
  com.wm.app.b2b.server.ServiceException: [ISS.0086.9249] Missing Parameter for incomplete inputs
  com.wm.app.b2b.server.ServiceException: [ISS.0086.9250] Parameter is not of type for invalid inputs

- **PIE-51641**
  Package deployment fails with a NullPointerException when the Compile Java Services option is set to Yes.

Deploying a package that contains a Java service fails with a NullPointerException similar to the following when the Compile Java Services option is set to Yes:
java.lang.NullPointerException: null
at com.wm.lang.ns.NSService.setValues(NSService.java:717)
at com.wm.lang.ns.NSNode.<init>(NSNode.java:93)
at com.wm.lang.ns.NSService.<init>(NSService.java:149)
at com.wm.app.b2b.server.BaseService.<init>(BaseService.java:201)
This issue is now resolved.

- PIE-51723
Enterprise Gateway blocks the IP address of the proxy used.
When a proxy is used between a client and Enterprise Gateway, then Enterprise Gateway blocks the IP address of the proxy. This is because, Enterprise Gateway ignores the X-Forwarded-For header in the request and hence during a Denial of Service attack check, instead of using the client IP address it uses the IP address of the proxy server.
This issue is resolved. Now, Integration Server checks for X-Forwarded-For header in request and if it is present, then Enterprise Gateway uses the client IP address from this header.

- PIE-52012
Invoking pub.string:numericFormat service with a decimal value for the 'num' parameter fails with error.
Invoking the pub.string:numericFormat service by providing a decimal value for the input parameter 'num' fails with following error: [ISS.0086.9250] Parameter [num] is not of type: [Integer]
This issue is now resolved.

- PIE-52017
Integration Server supports string constraints in Swagger document.
Integration Server supports to add string field constraints such as MinLength, MaxLength, and Pattern to the Swagger document generated for REST V2 resources. Integration Server generates the constraints along with the Swagger document that are set as part of the fields in the referred definition or service.
This is a new feature.

- PIE-52089
Integration Server rolls back the messages to Universal Messaging if message processing fails with a decoding error.
While processing a message using webMethods messaging trigger that receives documents from Universal Messaging, if Integration Server encounters any decoding errors, Integration Server rolls back the message to the message provider (in this case, Universal Messaging). As the decoding errors are non-transient, the same message rolls back each time Integration Server starts processing that message.
This issue is now resolved. If a webMethods messaging trigger encounters a decoding exception while processing a message, Integration Server acknowledges the message to messaging provider. The message text for [ISS.0153.0089C] has also changed to "Trigger <trigger_name> failed because of message decoding exception: <exception_message>. Message has been acknowledged to messaging provider."

- PIE-52220

  Passing an empty string as an input in pub.string:tokenize service fails with an error.
  In the pub.string:tokenize service when an empty string is passed as an input for the "inString"
  parameter, Integration Server throws the following error:
  com.wm.app.b2b.server.ServiceException: [ISS.0086.9272] inString cannot be empty when empty
  string is passed as an input for parameter "inString".
  This issue is now resolved. Now, pub.string:tokenize service accept emptry string as an input
  parameter.

- PIE-52300

  After applying a fix that includes PIE-36402 or migrating to a version of Integration Server that
  includes PIE-36402, execution of a web services that use multi-level document type references
  exhibits a performance degradation in Integration Server as compared to older releases.
  Web services that contain multiple levels of document type references (in which a document
  reference field includes a field that is a document reference field which in turn also includes a field
  that is a document reference field, and so forth) exhibit a decrease in performance. This issue is
  observed after applying a fix containing PIE-36402 (IS_9.8_Core_Fix2) on Integration Sever 9.8 or in
  Integration Server versions 9.9 and higher.
  The performance degradation has been remedied by identifying and removing performance
  bottlenecks.

- PIE-52360

  An enabled webMethods messaging trigger does not have a registered listener on Universal
  Messaging but the trigger cannot be restarted.
  In some situations, a webMethods messaging trigger that receives messages from Universal
  Messaging does not create the associated listener on the Universal Messaging server as part of
  trigger startup. Without the listener, the trigger will not receive messages from Universal
  Messaging. Even though there is not a listener for the trigger, the trigger remains in an enabled
  state which prevents Integration Server from restarting the trigger.
  This issue is observed in the following scenarios:
  - During startup of the webMethods messaging trigger, the connection to Universal Messaging
  becomes unavailable but is quickly re-established. However, the listener for the trigger is not
  created on the Universal Messaging server. In Integration Server Administrator, the trigger state
  indicates that it is enabled but not connected (On the Settings > Messaging > webMethods
  Messaging Trigger Management screen, the Active property displays Yes (Not Connected) for the
  trigger.) In this state, the trigger cannot be re-enabled manually. The Universal Messaging
  connection alias used by the trigger must be restarted for the trigger to be enabled. This scenario is
  most frequently observed when Integration Server connects to an active-active Universal
  Messaging cluster.
  - During startup of the webMethods messaging trigger, Universal Messaging throws an exception
  while creating the listener for the trigger but the Universal Messaging connection alias remains
  active. This can occur for a variety of reasons, but it most often occurs when the trigger request to
  create the listener times out or when the Universal Messaging connection alias and the trigger are
  connecting to different realms.
  To resolve the scenarios in which a listener is not created on Universal Messaging as part of startup

of the webMethods messaging trigger, Integration Server now attempts to restart any webMethods messaging trigger that is enabled, associated with an active Universal Messaging connection alias, and does not have a registered listener on Universal Messaging server.

▪ PIEAR-1086
Assertion errors related to Adapter Connections are logged when releasing the connection or making the connection available. This happens when the parent service has set a timeout in the flow services.
This issue is now resolved.

▪ PIEAR-1093
Error copying an existing connection as the default values for the connection properties are not copied.
The issue is now resolved.

Release 10.2

▪ PIEAR-1052
In webMethods Adapter for SAP, the connection is not enabled, as the script file was not loaded.
The issue is resolved. Now the connection is enabled and ART retains the backward compatibility of the adapters which are referring to the java scripts with the extension .js.txt.

▪ PIEAR-1056
In webMethods Adapter for Runtime, an error occurs when you view the listeners in Integration Server Administrator.
This issue occurs when the listener is not loaded in the Integration Server which is referred by one of the notifications.
This issue is now resolved.

Release 10.1

▪ PIE-45041
The Integration Server log contains the active Session ID even though masking of Session IDs is enabled.
The Integration Server server log contains the active Session ID when the maskSession ID is set to "true" and logging level is set to "Trace". The active Session ID is mentioned even though masking of Session IDs is enabled.
This issue is now resolved.

▪ PIE-45064
Moving or renaming folders containing flow services results in broken references.
When a folder containing a flow service is moved or renamed, any document references present in the flow service are not correctly updated. This results in the flow service containing broken references.
The issue is now resolved.

- PIE-45087
  Designer does not honor the protocol buffer encoding type for a publishable document type created in an earlier version of Integration Server.
  When using Designer 9.10 or higher to view or edit a publishable document type created on an Integration Server version 9.10 or earlier, Designer may display the IData as the Encoding type even though the assigned encoding type is protocol buffers. Additionally, if the Encoding type is changed to Protocol buffers, Designer reverts the Encoding type to IData upon save.
  This issue is now resolved.

- PIE-45125
  Java services that reference Ehcache classes directly cannot be compiled.
  This issue is resolved.

- PIE-45131
  Issues with configuring a restV2 resource.
  When configuring a restV2 resource, Integration Server does not display any error on specifying a URL format containing only dynamic parameters for a REST resource. This is incorrect because a URL format must include at least one static parameter.
  Integration Server throws an exception on specifying a URL format with only dynamic parameters.

- PIE-45172
  From Command Central, Integration Server instance creation using a YAML template and specifying the dbtype in lower case prevents any update to Audit Logging Destination.
  When using Command Central to create an Integration Server instance using a YAML template and specifying the dbtype in lowercase prevents any attempt to change the Audit Logging Destination to 'Database' for an Audit Logger in the Edit Session Logger Details page (Settings> Logging> Edit Session Logger Details). Additionally, the following error occurs on changing the Session Logger: RESTART is required due to inability to update in Integration Server.
  This issue is resolved. Now, the dbtype is case insensitive in the YAML template, allowing the choice of "Database" as the destination when the ISCoreAudit Functional Pool is set to a valid JDBC pool.

- PIE-45177
  When using Command Central to create an Integration Server instance using a YAML template, specifying the dbtype in lower case causes the functional description to be unavailable.
  When creating an Integration Server instance with Command Central, using YAML template and specifying the dbtype in lowercase causes the functional description of functional alias to be unavailable for viewing or editing on the Settings >JDBC Pools > Functional Definitions page.
  This issue is resolved. Now, the dbtype is case insensitive in the YAML template and hence, the function description appears correctly.

- PIE-45320
  Unable to add IPv6 address in Integration Server to access a port.
  While updating the IP access of a port in the Integration Server Administrator on the Security > Ports > IP Access screen, Integration Server does not allow a user to add an Ipv6 address in the allow/deny lists of IP address.

This issue is now resolved. Integration Server now allows an IPv6 address in the allow/deny lists.

- PIE-45366
Searching for Integration Server elements results in a NullPointerException.
Searching for Integration Server elements using the Service Development perspective of Designer in a package for which the manifest.v3 file has the system_package attribute missing results in a NullPointerException.
This issue is now resolved.

- PIE-45543
Executing the is_container script with the createLeanDockerfile option creates a Docker image that does not include the WmCloud package.
This issue is now resolved.

- PIE-45588
When using a stand-alone Java client created for Integration Server, the client ignores client certificates when establishing an outbound HTTP connection using JSSE.
When a stand-alone Java client uses the Integration Server method com.wm.app.b2b.client.BaseContext.setSSLCertficates() to provide client certificates for the purpose of establishing an SSL connection using JSSE, the client did not provide the destination HTTP server with the client certificates needed to establish the connection.
This issue is now resolved.

- PIE-45797
Java service compilation fails with an error if the service uses the Common Directory Services API.
If a Java service uses the Common Directory Service API, compilation of the Java service fails with the following error:
class file for com.webmethods.sc.LocalizedException not found
This issue is now resolved.

- PIE-46024
Integration Server now supports migration when source and target version are same.
The migration utility can now be used for migration where the source and target versions of Integration Server are the same. This can be useful for data center or machine moves.

- PIE-46407
Unable to change the logging level for Integration Server by using composite templates in Command Central.
When using a composite template in Command Central to change the logging level for an Integration Server, Command Central throws a ConfigurationValidationException and the logging level does not change.
This issue is now resolved.

- PIE-46654
The Integration Server migration utility does not migrate the quiesce port settings.
This issue is now resolved.

- PIEAR-1002

  In webMethods Adapter Runtime 10.1, when you create an adapter connection, the Pool Increment Size value in connection management property cannot be greater than Maximum Pool Size value. This issue is resolved. Pool Increment Size is now validated with Maximum Pool Size value.

- PIEAR-1004

  In webMethods Adapter Runtime 10.1, the connection pool reset does not happen when adapter connection exception occurs in the design time while creating or configuring the adapter services. This issue is now resolved.

- PIEAR-1012

  In webMethods Adapter Runtime 10.1, when you navigate to the Connections screen from the About screen, the left navigation pane of the Connections screen still shows the information related to About screen.
  This issue is now resolved.

Release 10.0

- WFF-259

  An exception causes file polling ports to automatically disable.
  When processing large number of files, the file polling port is automatically disabled and the following exception is displayed in Integration Server Administrator.
  "java.lang.IllegalArgumentException: Comparison method violates its general contract!"
  The disabled port can only be enabled by reloading the package.
  This issue occurs because of the change in the sorting algorithm in JDK 1.7.
  This issue is resolved.

- WFF-261

  In webMethods Integration Server, the pub.flatFile:convertToString service eliminates the values or fields that contain only white spaces which results in incorrect outputs.
  This issue is resolved.

Release 9.12

- PIE-39870 (IS_9.0_SP1_Core_Fix14, IS_9.5_SP1_Core_Fix11, IS_9.9_Core_Fix2, IS_9.10_Core_Fix1)
  Service fails to run automatically after the cache expires when the Prefetch parameter is set to True.
  When the Prefetch parameter is set to True and the cache expires, the service fails to run automatically. The following exception is displayed in the server logs. "[ISS.0086.9249] Missing Parameter:num1" .
  This issue is resolved.

- PIE-39177 (IS_9.0_SP1_Core_Fix14, IS_9.9_Core_Fix2)
  Integration Server logs contain duplicate entries after a port is enabled and disabled.
  When a port is enabled and disabled, Integration Server creates two entries for each action in the server logs. This issue occurs if the logging level is set to Debug. Integration Server logs the same

information in the Debug log and the Info log which causes duplicates.

This issue is resolved. Now, if the logging level is set to Debug Integration Server logs information related to enabling and disabling of ports in the Info log.

▪ PIE-36924 (IS_9.5_SP1_Core_Fix11)

An additional prefix is included in an XML document input when restored from the pipeline. Integration Server includes an additional prefix dx: at the root of an XML document instance. This issue occurs when the XML document is updated as specified in the following sequence of steps:

(1) The XML document is provided as input to an operation in a provider web service descriptor.
(2) The document is saved to a pipeline.
(3) The pipeline is restored.

The issue is now resolved.

▪ PIE-39114 (IS_9.7_Core_Fix8, IS_9.9_Core_Fix2)

Discrepancy in session count on Server > Statistics page and Server > Statistics > Session page. In Integration Server Administrator, the current total sessions displayed on the Server > Statistics page does not match the number of rows for Current Sessions displayed on the Server > Statistics > Sessions page.

This issue is now resolved.

▪ PIEAR-746 (IS_9.7_Core_Fix8)

The threads waiting for the connection and the threads releasing the connection from the connectionPool are blocked in the ConnectionPool.

When the connection creation thread acquires a lock on the ConnectionPool, the thread goes to the wait state and the state of this thread does not change. This prevents the connection from being released.

To resolve this issue, Integration Sever now includes the following server configuration parameter: watt.server.jca.connectionPool.createConnection.interrupt.waitTime Specifies the wait time, measured in milliseconds, that elapses before Integration Server interrupts a connection creation thread that is in a wait state. There is no default value. You must restart Integration Sever for changes to this parameter to take effect.

▪ PIE-39355 (IS_9.7_Core_Fix8)

Integration Server does not indicate when it is disconnected from a cluster. Integration Server does not log an error message when it is disconnected from a cluster, preventing automatic detection of the situation.

Now, Integration Server logs the following error message when it is disconnected from the cluster.
[ISS.0033.151] The cluster is now not operational.

Additionally, Integration Server logs the following error message when it rejoins the cluster.
[ISS.0033.152] The cluster is now operational.

▪ PIE-34518 (IS_9.8_Core_Fix5)

Addition of CDATA block support to outbound SOAP processing.

When processing an outbound SOAP message, Integration Server ignores CDATA delimiters in String fields.

If a String field contained text in a CDATA block, Integration Server treats the text as regular text instead of character text and url-encodes special characters in the delimiters and in the text block. Integration Server now provides CDATA block support for processing of outbound SOAP messages only when Integration Server hosts the web service provider. When a service used as an operation in a web service provider returns String values containing CDATA blocks, when encoding the IData into a SOAP message, Integration Server places the CDATA text in the outbound SOAP message in a CDATA section and does not url-encode special characters in the delimiters or text block.

Keep the following information in mind:

- A CDATA block begins with <![CDATA[and ends with]]> - Multiple CDATA blocks may be used in a single String value.

- CDATA blocks may not overlap or be nested.

Note: When Integration Server is acting as the web service client, Integration Server does not provide CDATA block support when processing outbound SOAP messages. If a String value containing the request is passed to the web service connector and the string contains CDATA, the contents of CDATA block will be treated as regular text and special characters in the delimiters and text block will be url-encoded in the outbound SOAP request.

▪ PIE-35132 (IS_9.8_Core_Fix5)
Changes to Integration Server to address the security vulnerabilities identified during internal security testing.
This fix resolves the security issues found during internal security testing.

▪ PIE-38427 (IS_9.8_Core_Fix5)
A NullPointerException occurs when modifying or saving a flow service if dependency checking features are disabled.
A NullPointerException occurs in Software AG Designer when modifying or saving a flow service if the server configuration parameter watt.server.ns.dependencyManager is set to false.
This issue is resolved.
PIE-38649 (IS_9.8_Core_Fix5)
Host name of an email port is displayed incorrectly in the View Email Client Details page in Integration Server Administrator.
The host name of an email port is incorrect and contains garbled characters when the email port is viewed in the Security > Ports > View Email Client Details page in Integration Server Administrator.
This issue is resolved. The host name is now displayed correctly in the Ports > View Email Client Details page in Integration Server Administrator.

▪ PIE-38920 (IS_9.8_Core_Fix5)
Certification of Integration Server with MySQL version 5.6.
Integration Server 9.8 is now certified for use with MySQL version 5.6
PIE-39009 (IS_9.9_Core_Fix2)
Messages are rolled back to Universal Messaging incorrectly if the webMethods messaging trigger is configured to Suspend and Retry Later.
If a webMethods messaging trigger specifies Suspend and Retry Later for On Retry Failure, Integration Server rolls back a message to Universal Messaging if a transient error causes the

trigger to fail. However, instead of rolling back a single message, Integration Server rolls back all of the received but unacknowledged messages for the trigger. For concurrent triggers, this can cause messages to be reprocessed. For serial triggers, this can cause messages to be lost.

Now, when a webMethods messaging trigger specifies Suspend and Retry Later and a transient error prevents the trigger from executing successfully, Integration Server rolls back a single message at a time to Universal Messaging. Additionally, Integration Server clears the trigger queue on the Integration Server immediately after suspending the trigger. Clearing the queue removes any messages that the trigger received but did not process. These messages will be redelivered.

- PIE-39287 (IS_9.9_Core_Fix2)
  Integration Server displays the predefined Client Prefix instead of the user-defined Client Prefix after a restart.
  After restarting Integration Server, the user-defined Client Prefix for a new Broker Connection Alias is replaced with the predefined Client Prefix that Integration Server creates.
  This issue is resolved. Now, Integration Server displays the user-defined Client Prefix correctly after a restart.

- PIE-39295 (IS_9.9_Core_Fix2)
  An attempt to create a web service descriptor form a WSDL document fails with a NullPointerException if the WSDL document contains multiple services but the services are not associated with all of the binding and portType definitions in the WSDL document.
  Creating a consumer web service descriptor or a WSDL first provider web service descriptor from a WSDL document fails with a NullPointerException if the WSDL document defines multiple services and every service is not associated with every binding and portType defined in the WSDL document.
  This issue is resolved. Each web service descriptor generated from a service in a WSDL document exposes only the binding and portTypes associated with the service.

- PIE-40157 (IS_9.10_Core_Fix1)
  Correction to a spelling error in Queue Provider field.
  On the Settings > Logging > Edit <loggerName> Details page, Integration Server Administrator lists Universal Messaging instead of Universal Messaging as one of the Queue Provider values.
  The spelling error is now corrected.

- PIE-37272
  Deadlock among threads in XA recovery store prevents XA transactions from completing.
  The XA recovery store contains information about each XA transaction, including the transaction ID (XID), the global state of the transaction at each point in the transaction, and the state of each resources participating in the transaction. During an XA transaction, a deadlock between threads accessing the XA recovery store occurred because an exception occurred after a thread acquired a lock. The exception prevented the release of the lock.
  This issue is now resolved. In addition to resolving the issue described above, Integration Server now includes server configuration parameters to control recovery logging.
  watt.server.transaction.xastore.performXALogging
  Specifies whether Integration Server writes transaction information to the XA recovery store. Set to true to instruct Integration Server to log information about the state and progress of each XA

transaction. Set to false to instruct Integration Server to skip logging XA transaction information. The default is true.

Important! If you set watt.server.transaction.xastore.performXALogging to false, Integration Server does not log any information to the XA recovery story while processing a transaction, making transaction recovery impossible. If you want Integration Server to automatically resolve incomplete transactions or you want to manually resolve incomplete transactions, Integration Server must perform XA logging.

You must restart Integration Server for changes to this parameter to take effect.

watt.server.transaction.xastore.maxTxnPerFile

Specifies the maximum number of unique XA transactions in an XA recovery log file. When the XA recovery log file reaches the maximum number of transactions, Integration Server creates a new file. The default is 2000 transactions.

Consider increasing the maximum number of unique XA transactions for the XA recovery log file if there are more than 2000 active XA transactions and Integration Server exhibits a performance delay due to input/output. Increasing the number of unique XA transactions allowed per file decreases the number of files used for the XA recovery log, which, in turn, may result in fewer files for Integration Server to search when performing XA recovery.

Decreasing the number of unique XA transactions stored in file may help during transaction recovery as it might decrease the time to read and consolidate open transactions.

- PIE-37566
  Executing anonymous services creates persistent sessions.
  Some anonymous services in the WmRoot package create persistent sessions. Repeated execution of these services can consume all of Integration Server's licensed sessions.
  This has been fixed. Anonymous services in WmRoot are now stateless which means that Integration Server creates sessions to execute these services and discards the sessions immediately

- PIE-38112
  Integration Server does not restart after improper shut down.
  If Integration Server does not shut down properly, which can be caused by a JVM crash or a machine crash, configuration files such as acls*.cnf become corrupted or are reduced to a size of zero. In turn, this causes a restart of Integration Server to fail. To recover, data must be restored manually from a backup directory. This issue results from how Integration Server persists data into the file system. Prior to this fix, Integration Server tried to overwrite the existing file in the file system. If Integration Server shut down improperly right after the file was recreated but before the new content was written to the file system, the file content became corrupted or the file was reduced to a size of zero.
  With this fix, Integration Server changes how it saves changes to configuration files. When saving changes to configuration files, Integration Server first saves the configuration changes in a temporary file in the IntegrationServer_directory/instances/instanceName/config/work directory. After saving the changes in a temporary file, Integration Server moves the temporary file to the actual configuration file. This ensures that if unexpected behavior occurs before the configuration changes are initially saved to the temporary file, only the temporary file is impacted. The actual configuration file is not corrupted. At start up, if Integration Server detects files in in the IntegrationServer_directory/instances/instanceName/config/work, it suggests that changes to a configuration file were not saved to the temporary file and that, therefore, the changes were not

made to the actual configuration file. Use the contents of the IntegrationServer_directory/instances/instanceName/config/work directory to determine which configuration files were in the process of being changed. Decide whether you want to redo the changes to the configuration files. Delete the files under the directory and redo the configuration change if you so choose.

▪ PIE-38470

The xsd:any element and attributes are not generated for a web service descriptor when the Allow Unspecified Fields property is true.

The WSDL document for a web service descriptor does not include the xsd:any element and attributes when the web service descriptor uses a Document variable for which the Allow unspecified fields property is set to true. This issue occurs even when the server configuration parameter watt.core.schema.createSchema.omitXSDAny is set to false.

To address this issue, the web service descriptor now includes a property, Omit xsd:any from WSDL. When set to false, the WSDL document generated by Integration Server includes an xsd:any element. When set to true, the WSDL document does not include the xsd:any element. The default value is true. For changes to this property to take effect, after saving the change to the property, either refresh the web service descriptor or reload the package that contains the web service descriptor.

▪ PIE-38658

When a client sends multiple HTTP PUT requests to Integration Server, every second request fails with a 400 Bad Request response.

Now, alternating HTTP PUT requests from the same client will not fail. Integration Server handles multiple HTTP PUT request from the same client correctly.

▪ PIE-38686

GET request mandatorily adds a default value to the Content-Type header.

If Content-Type header is not specified in a GET request, the pub.client.http service adds a default Content-Type:"application/x-www-form-urlencoded". According to HTTP 1.1, it is not mandatory to specify the Content-Type header. If the Content-Type header is not specified, the pub.client.http service should not add a default Content-Type.

Now, if no Content-Type header is specified, pub.client.http service does not add a default Content-Type to the request. However, if you pass the data using 'args' or 'table' keys, default Content-Type: "application/x-www-form-urlencoded" is added.

▪ PIE-38751

In Integration Server, sometimes publishing a guaranteed document to Universal Messaging server fails due to transaction failure.

This issue occurs when the Universal Messaging server does not respond to the transaction within the specified EvenTimeout.

This issue is resolved. A new server configuration property, watt.server.um.producer.transaction.commitRetryCount is introduced in the server configuration file. This property specifies the number of retry attempts Integration Server makes to publish the message to the Universal Messaging server. The maximum number of retries is 9. If you try to assign a value greater than 9, Integration Server automatically sets the value of the property to 9.

The default is 0. When setting a retry value, you must ensure that the total transaction time does not exceed the MaxTransactionTime. The total transaction time is calculated by multiplying the total number of attempts with the EvenTimeout. For example, if the retry value is set to 9, and the EvenTimeout is set to 60s, the total transaction time is 60,000(9+1) = 600s.

- PIE-38932
  Integration Server loads a package more than once during deployment.
  During deployment of multiple packages at the same time, Integration Server reloads the packages more than once.
  Now, when a deployment operation includes multiple packages, Integration Server loads each package only once.

- PIE-39017
  In a clustered environment, Integration Server sometimes does not create child tasks when a new server is added to the cluster or when an existing server is restarted.
  When a task is scheduled to run on all servers in a clustered environment, Integration Server creates a parent task and a child task for each server in the cluster. When a new server is added to the cluster or when an existing server in the cluster is restarted, Integration Server creates a corresponding child task upon server restart. However, Integration Server sometimes does not create the child task for the newly added server or for the server that was restarted. As a result, the complete information for all servers in the cluster is not available on the Scheduler screen.
  This issue is resolved.

- PIE-39164
  SSL handshake fails as no client certificate is sent when a new connection is opened through proxy.
  When Integration Server tries to open a connection to web server that requires client certificate through proxy, the SSL handshake using JSSE fails as no client certificate is sent. This happens only when the keyStoreAlias and keyAlias parameters are set using pub.security.keystore:setKeyAndChain service and not when they are set using the Integration Server Administrator (Security > Certificates). This issue occurred because the client certificate attachment was missing in the request.
  This issue is now resolved. Now, client certificate is sent to web server when a connection is opened through proxy.

- PIE-39178
  Repository-based deployment fails when deploying locally publishable documents on the target Integration Server.
  When deploying locally publishable documents on the target Integration Server using a repository-based deployment, Integration Server cannot find a messaging connection alias for the locally publishable document. This causes the deployment to fail. When the publishable document type is set to locally only, there is no messaging connection alias attached to it.
  This issue is resolved. Now, Integration Server does not check for a messaging connection alias during deployment when the publishable document type in Integration Server is set to locally only.

- PIE-39210
  Integration Server experiences memory leak due to orphaned entries of type

com.wm.app.b2b.server.ostore.FileCache$InvokeCounter located in
com.wm.app.b2b.server.ostore.FileCache.
This issue is now resolved.

- PIE-39268
Enhancement to Integration Server to use a file for specifying allowed cipher suites.
The following server configuration properties identify the list of cipher suites for use with inbound
and outbound SSL connections.
watt.net.ssl.client.cipherSuiteList
watt.net.ssl.server.cipherSuiteList
watt.net.jsse.client.enabledCipherSuiteList
watt.net.jsse.server.enabledCipherSuiteList
Prior to this enhancement, the properties accepted a comma-separated list of cipher suites.
However, specifying a long list of cipher suites can be cumbersome. To make it easier to specify a
long list of cipher suites, Integration Server now allows specifying a file as the value for the cipher
suite server configuration properties. In the file, specify each cipher suite on a different line. For
each cipher suite server configuration property for which you want to specify a file instead of a list
of cipher suites, specify the following as the value of the property: file:directoryName\filename For
example: watt.net.jsse.server.enabledCipherSuiteList=file:c:\ssl\ciphers.txt.
Note: You can set the value of a cipher suite server configuration property to a comma-separated
list, default, or the absolute path to a file. You cannot specify a combination of these. Integration
Server loads the file and its list of supported cipher suites at start up. Changes to the contents of the
file that are made after Integration Server starts will not take effect until the next time Integration
Server starts. Integration Server throws the following exception if it cannot find the specified file:
ISS.0070.9048E Integration Server cannot find the file {0} specified for the server configuration
parameter {1}.
Cause The specified server configuration parameter uses a file to identify the allowed cipher suites;
however, Integration Server cannot find the file.
Action Make sure the server configuration parameter specifies the correct location of an existing
file.

- PIE-39278
Message not found for messageKey 68.29 and 68.30.
If an email port has "Log out after each mail check=Yes" , Integration Server fails to retrieve the
error messages for messageKey 68.28 and messageKey 68.30.
Following messages appear in the server log:
For IMAP: ISP.0068.0029I] Message not found for messageKey 68.29. For POP3: ISP.0068.0029I]
Message not found for messageKey 68.30.
This issue is now resolved. Now, correct messages are displayed for messageKey 68.28 and
messageKey 68.30.

- PIE-39298
Error in getting SFTP server host key, if a key exchange algorithm is not supported by SFTP server.
Jsch has a default key exchange algorithm order.
During the handshake, jsch checks the client key exchange algorithms one by one with SFTP server
key-exchange algorithms. The first matching algorithm is used as the key-exchange algorithm

between SFTP client and SFTP server. However, Jsch does not support 2048-bit keys for diffie-hellman-group-exchange-sha256 and diffie-hellman-group-exchange-sha1 key exchange algorithms in Java 1.7 and earlier versions. Consequently, if the Integration Server runs with Java 1.7 or earlier version and SFTP server expects 2048-bit keys for these algorithms, then the handshake between SFTP server and SFTP client fails.

To avoid this issue, the order of these key exchange can be changed using the watt.ssh.jsch.kex parameter so that, any other matching key exchange algorithm can be selected as the key exchange algorithm between the SFTP client and SFTP server.

To address this issue, Integration Server now include a server configuration parameter to change the order of the key exchange algorithm.

watt.ssh.jsch.kex Specifies the order of the key exchange algorithm for Jsch. The specified order overrides the default key exchange algorithms order supported by Jsch.

For example: watt.ssh.jsch.kex=diffie-hellman-group-exchange-sha1, diffie-hellman-group1-sha1,diffie-hellman-group14-sha1 If the SFTP server expects 2048-bit keys for diffie-hellman-group-exchange-sha1, then the order of this algorithm can be changed so that, any other matching algorithm can be selected as key exchange algorithm between the SFTP client and SFTP server.
watt.ssh.jsch.kex=diffie-hellman-group1-sha1, diffie-hellman-group14-sha1, diffie-hellman-group-exchange-sha1 Integration Server must be restarted for changes to this parameter to take effect.

- PIE-39357
  Integration Server fails to retrieve the SFTP Get Host Key during the SFTP Server Alias creation.
  SFTP Server Alias creation fails with 'Auth Cancel' exception, as Integration Server fails to retrieve the SFTP Get Host Key.
  The issue is now resolved.

- PIE-39380
  Integration Server issues an Access Denied error message during the logon process and logs an authentication exception in the server log.
  Integration Server issues the following error message during the logon process and logs the exception in the server log:
  Access to Integration Server is denied because of the following authentication exception: LoginModule "com.wm.app.b2b.server.auth.jaas.X509LoginModule" unavailable.
  The issue is now resolved.

- PIE-39574
  Web service connector does not capture all the Set-Cookie HTTP response headers sent back by the web service provider.
  When a web service connector sends a request to a web service provider that sends back multiple Set-Cookie response headers, the connector captures only one Set-Cookie response header.
  This issue is resolved. Now, if the web service provider sends back multiple Set-Cookie HTTP response headers, the connector returns all of the headers in its output.

- PIE-39585
  Missing fields in an IS document type generated from an XML Schema Definition (XSD) that has complex type definitions referring to group elements defined later in the schema.
  When an Integration Server document type is generated from an XSD where the complex type

definitions contain references to group elements defined later in the schema, the generated document type does not contain the fields corresponding to such references.
This issue is now resolved.

- PIE-39701
Integration Server migration utility reports an exception during migration of Trading Networks package.
During migration of Integration Server, if the source Integration Server contains a Trading Networks package, the migration utility throws an exception if JDBC pool information was not selected during migration of configuration files and JDBC pool information was specified during installation of Trading Networks.
Trading Networks data and configuration file Migrator : Unable to locate the database configuration information. File
<IntegrationServer_installDirectory>\bin\migrate\..\..\instances\default\config\jdbc\pool\<poolName>.xml does not exist. Where poolName refers to the pool name specified for the Trading Networks functional alias.
This issue is now resolved. Integration Server migration utility correctly migrates Trading Networks data.

- PIE-39735
Synchronization of publishable documents with the messaging provider fails when using a startup service to run pub.publish:syncToProvider.
When the pub.publish:syncToProvider service runs as part of a startup service, Integration Server reloads the webMethods messaging triggers but fails to update the state of the triggers.
This issue is resolved.

- PIE-39762
REST API descriptor treats parameter of type byte[] as byte.
When creating a REST API descriptor, if a selected REST resource contains a service with byte[] in the service signature, the REST API descriptor treats the parameter as a byte instead of byte[].
This issue is now resolved.

- PIE-39819
An error occurs when you create or edit a file polling port if the path to the monitoring directory contains a backslash '\'.
When you create or edit a file polling port and the path to the monitoring directory contains a backslash '\', the following error message is displayed. "No listener defined with the specified key: FilePollingListener: c: mp" This issue occurs because the Integration Server Administrator uses the wrong encodingType.
This issue is resolved.

- PIE-39825
A synchronous or asynchronous publish and wait does not receive a reply.
If a publishable document type is empty, that is, it does not contain any fields besides the _env field, and values are mapped to fields the _env field before publishing the document using pub.publish:publishAndWait, Integration Server does not receive a reply to the published request.

This occurs for synchronous and asynchronous publish and wait requests.
This issue is now resolved.

▪ PIE-39839
Universal Messaging does not reuse the session on Integration Server even though watt.server.trigger.reuseSession is set to true.
When the server configuration property, watt.server.trigger.reuseSession is set to true and Broker is the messaging provider, Broker reuses the session on Integration Server. Whereas, Universal Messaging as the messaging provider does not reuse the session.
This issue is resolved.

▪ PIE-39847
JDBC connection pools are blocked after the database restarts.
After the database used by a JDBC pool restarts, Integration Server does not release connections from the pool because of an unexpected exception thrown by the JDBC driver.
Now, Integration Server exception handling prevents the exception thrown by the JDBC driver from blocking the release of connections from the JDBC pool.

▪ PIE-39848
After migrating to Integration Server 9.5 or later, Integration Server displays an exception when calling a web service and using MTOM streaming.
After migrating 2 to Integration Server 9.5 or later, sending a web service request that uses MTOM streaming for which more than one chunk is sent, the following exception occurs: "Exception --> org.apache.axis2.AxisFault: Connection reset by peer: socket write error"
This issue is now resolved.

▪ PIE-39853
Unable to view assigned input values for services in Integration Server Administrator when the server configuration property watt.server.disableXSSFilter=true.
When creating a scheduled task, assigning input values using the "Assign Inputs" button displays an empty input field even though the assigned value is saved in the input field. Since the XSS filter is disabled by setting the server configuration property watt.server.disableXSSFilter=true, Integration Server in unable to encrypt quotation marks (") in the input values. Therefore, the assigned input values are not displayed in the input field in Integration Server Administrator.
This issue is resolved. Integration Server is now able to encrypt quotation marks (") in input values when the server configuration property watt.server.disableXSSFilter=true.

▪ PIE-39876
Swagger document generated by Integration Server does not represent REST resources with required list parameters correctly.
If a REST API descriptor contains REST resources that refer to a list parameter, such as String list, Document list, Document Reference list, and Object list, and the list parameter is required, the definitions section of the generated Swagger document does not indicate that the parameter is required.
This issue is now resolved.

▪ PIE-39877

If a REST API descriptor contains a REST resource that refers to a parameter of type String table, the generated Swagger document does not indicate the type of the parameter as "array".
This issue is now resolved.

- PIE-39938
  Reliable messaging sequences on Integration Server are timed out when the inactivity timeout interval is set to a value of -1.
  This issue is now resolved. The reliable messaging sequences do not get timed out when the inactivity timeout interval is set to -1 in the Integration Server Administrator (Settings > Web Services > Reliable Messaging > Edit Configuration).

- PIE-39967
  Service error statistics counter causes memory leak.
  An internal mechanism used to report the last 60 seconds worth of service failures has a memory leak. The memory leak occurs when a steady stream of exceptions, at least one every 60 seconds, are thrown without interruption.
  To resolve the memory leak, Integration Server clears the service error statistics counter when new entries are added.

- PIE-40014
  Selected Authentication Type does not get populated under HTTP Transport Properties in consumer web service descriptor endpoint alias.
  When creating a consumer web service descriptor endpoint alias, the selected Authentication Type is not populated under HTTP Transport Properties.
  The issue is now resolved.

- PIE-40027
  Integration Server logs the wrong message when it cannot find the encoder "esapi".
  When Integration Server cannot find the encoder "esapi", it logs the following wrong error message:
  [ISC.0072.0023E] Couldnt initialize encoder "{0}".
  Whereas, Integration Server should log the following message:
  ISC.0072.0023E] Failed to initialize the bundle for encoder 'esapi'.
  This issue is resolved now.

- PIE-40048
  In the Service Usage screen, some of the values are displayed as   instead of the actual value.
  In the Service Usage screen of Integration Server Administrator, some of the values in the Count and Last Run columns are displayed as   instead of the actual value. This issue occurs because of encoding issues in Integration Server.
  This issue is resolved. Now, the values in the Count and Last Run columns are displayed correctly.

- PIE-40109
  The pub.xml:getNextXMLNode service incorrectly returns a NullPointerException when the NodeIterator does not have XML nodes to return.
  This issue is resolved. The pub.xml:getNextXMLNode service returns null when there are no XML nodes to return.

- PIE-40126

  Results window does not show parameter names when using Natural CALC subprogram.
  From the Natural CALC subprogram, the IDL and IS connection are created. When using
  Integration Server and Adapter 9.9, and running the example CALC flow service in Software
  Designer from the Service Development perspective, the results window does not show the
  parameter names. The field name abbreviator (as used for XmlData) truncates field names that start
  or end with #.
  With this fix, the Field name abbreviator no longer truncates field names that start or end with #.

- PIE-40139

  Integration Server becomes unresponsive due to an OutOfMemoryError caused by lack of
  PermGen space. A memory leak in the package classloader may result in a
  java.lang.OutOfMemoryError: PermGen space, which causes Integration Server to become
  unresponsive.
  The memory leak in the package classloader is now repaired.

- PIE-40141

  The pub.event.routing* services are not working properly in Integration Server .
  The pub.event.routing* services of send, subscribe, and unsubscribe are not working properly. For
  example, the send service throws the following ServiceException: Could not run 'send'
  com.wm.app.b2b.server.ServiceException: com.wm.app.b2b.server.ServiceException: Event
  Routing service not available.
  This issue is resolved now.

- PIE-40183

  Different error messages for primary and regular HTTP ports.
  When Integration Server receives a client request for a web service that does not exist, it returns
  different error messages depending on whether the request was received through the primary port
  or an HTTP port.
  Now, Integration Server returns the same error message regardless of the port through which it
  receives the request.

- PIE-40189

  Missing schema definition for the envelope (_env) field in the WSDL document when a service
  containing reference to a publishable document type is exposed as a web service.
  When a service containing reference to a publishable document type is exposed as a web service,
  the resulting WSDL document does not contain the schema definition for the envelope (_env) field.
  This issue is now resolved.

- PIE-40194

  A webMethods messaging trigger that receives messages from a Universal Messaging cluster
  becomes disconnected and does not reconnect.
  When a Universal Messaging connection alias that specifies a cluster of Universal Messaging
  servers and the network between the Universal Messaging servers fails, one or more webMethods
  messaging triggers that use the alias might disconnect and then not reconnect. This might happen
  even if the trigger can successfully connect to one of the Universal Messaging servers but not the

other servers in the cluster.

Now, if a webMethods messaging trigger becomes disconnected from a cluster of Universal Messaging servers, the trigger reconnects only when the cluster has a quorum. In addition to resolving the issue described above, Integration Server now redirects the Universal Messaging client log entries from the default stdout to the Integration Server's log directory, Integration Server_directory/instances/instanceName/logs/umClient.log. The umClient.log file can be used when debugging Universal Messaging issues.

▪ PIE-40195

Integration Server does not validate a Kerberos ticket sent by an Internet browser.

If Integration Server receives a request on a port configured to accept Kerberos tickets, Integration Server returns a 401 status code with a "Negotiate" header challenge to the Internet browser. Upon receiving the Negotiate header challenge, a properly configured Internet browser generates a Kerberos ticket and sends the request, along with the Kerberos ticket, to Integration Server. Integration Server should validate the Kerberos ticket and either allow or deny the client request based on the ACL settings. However, Integration Server could not process the Kerberos ticket because a Kerberos ticket sent by an Internet browser is structurally different from tickets generated by a Java client. Because Integration Server could not process the ticket, Integration Serer could not validate the Kerberos ticket. Instead, Integration Server returned a 401 status code and prompted the client for username and password credentials.

Integration Server can now process a Kerberos ticket generated by an Internet browser.

▪ PIE-40202

JDBC connection pool for ISInternal functional alias is blocked.

Integration Server does not release connections from the JDBC connection pool used by the ISInternal functional alias because of an unexpected exception thrown by the JDBC driver. Now, Integration Server exception handling prevents the exception thrown by the JDBC driver from blocking the release of connections from the JDBC connection pool.

▪ PIE-40212

Enhancement for using a public cache, including a distributed cache, for service results caching. Previously, Integration Server stored cached service results in the ServiceResults system cache which is part of the SoftwareAG.IS.Services system cache manager.

With this enhancement, a local or distributed public cache can now be used for service results caching. By using a distributed cache as the service results cache, multiple Integration Servers can access cached service results.

Keep the following information in mind when using a public cache for service results caching:
 -The cache must be configured such that elements do not expire once they are placed in the cache. That is, the Eternal check box must be selected for the cache. The duration of cached service results depends on the Cache expire property value for the service and the watt.sever.cache.flushMins server configuration parameter value.

-When using a distributed cache as a service results cache, make sure that all the Integration Servers that share the service results cache have the same packages.

-When returning cached results for a service, by default, Integration server returns a reference to the cached results instead of the actual value of the cached results. If you want Integration Server to return the actual value instead of a reference, make sure that the Copy on Read and Copy on Write

check boxes are selected for the public cache.

-If you want to be able to use Integration Server Administrator or the pub.cache.serviceResuls:listCache service to view the cached elements for a service, make sure that the service results cache is searchable and that the cache allows automatic indexing for keys. That is, for the service results cache, the Searchable check box must be selected and the Key check box next to Allow Automatic Indexing must be selected.

-When a public cache used for service results caching is disabled or a public cache manager that contains the cache used for service results caching is shut down, Integration Server does not cache or retrieve service results. Instead of using cached results, Integration Server executes the service.

-When a public cache used for service results caching is enabled or the public cache manager that contains the public cache used for service results is started, Integration Server re-initializes the cache.

For detailed information about creating a public cache, public cache manager, and a distributed cache, see the webMethods Integration Server Administrator's Guide.

Note: In Integration Server Administrator, the Server > Service Usage page displays statistics about service results. For a distributed cache, this statistics corresponds to the current Integration Server instance only. Integration Server Administrator does not provide aggregated statistics for all the Integration Servers using the same distributed cache for service results caching.

To configure Integration Server to use a public cache for service results caching, you specify the name of the cache and cache manager in the server configuration parameters watt.server.serviceResults.cache and watt.server.serviceResults.cacheManger, respectively.

watt.server.serviceResults.cache

Specifies the name of the public cache to use for service results caching. If no value is specified for the watt.server.serviceResults.cache parameter, Integration Server uses the ServiceResults cache in the cache manger specified in the watt.server.serviceResults.cacheManager parameter as the service results cache. If the cache manager in the watt.server.serviceResults.cacheManager parameter does not contain a cache named ServiceResults, Integration Server throws an error at start up and does not cache service results. You must restart Integration Server for changes to this parameter to take effect.

watt.server.serviceResults.cacheManager

Specifies the name of the public cache manager that contains the public cache to use for service results caching. If no value is specified for this parameter, Integration Server uses the SoftwareAG.IS.Services system cache manager as the service results cache manager. If the SoftwareAG.IS.Services system cache does not contain a cache with a name that matches the value of the watt.server.serviceResults cache, Integration Server throws an error at startup and does not cache service results. You must restart Integration Server for changes to this parameter to take effect.

Note: To use the ServiceResults system cache located in the SoftwareAG.IS.Services system cache manager as the service results cache, do not specify a value for watt.server.serviceResults.cache or watt.server.serviceResults.cacheManager.

▪ PIE-40246

The pub.client:soapClient service does not use the private key and certificate chain set using the pub.security.keystore:setKeyAndChain.

This issue is now resolved.

- PIE-40259

  Using the delete icon to delete an OpenID Provider on the Security > OpenID page does not delete the OpenID Provider.

  In the Security > OpenID page of Integration Server Administrator, clicking the delete icon in the Delete Provider column invokes an unknown service, resulting in the display of the following message:

  [ISC.0072.9001] Unknown service: wm.server.security.openid:deleteProvider

  Furthermore, the OpenID Provider is not deleted.

  Now, clicking the delete icon in the Delete Provider column on the Security > OpenID page results in Integration Server deleting the OpenID Provider.

- PIE-40261

  Use JSSE option is missing on external port if the internal port is set to HTTP.

  On Integration Server Administrator, when you view a port for which the Enterprise Gateway External Port is set to HTTPS and Enterprise Gateway Registration Port is set to HTTP, the "Use JSSE" option does not appear. The "Use JSSE" option appears only if the Enterprise Gateway Registration Port is set to HTTPS.

  This issue is now resolved.

- PIE-40275

  Enhancement to allow the default locale for pub.date* services to be the server locale instead of the client locale.

  When executing a pub.date* service with a locale input parameter for which no locale is specified Integration Server uses the locale from the session used by the client that invoked the service. Integration Server now includes a server configuration parameter that you can use to specify that the default locale for pub.date* services should be the server locale.

  watt.server.session.locale.ignore

  Specifies whether the default locale for the pub.date* services is the server locale or the locale from the session used by the client that invoked the service. When set to true, when executing a pub.date* service for which a locale input parameter value is not specified, Integration Server uses the server locale as the value of the locale parameter. When set to false, when executing a pub.date* service for which a locale input parameter value is not specified, Integration Server uses the locale from the session used by the client that invoked the service. The default is false.

  You do not need to restart Integration Server for changes to this parameter to take effect.

- PIE-40300

  Under heavy load, Integration Server might generate duplicate contextIDs for audit log messages resulting in an AuditLogManagerException.

  Under heavy load, Integration Server might generate duplicate contextIDs for audit log messages, causing Integration Server to write the following AuditLogManagerException to the server.log:

  [ISS.0095.9998] AuditLogManager Exception:

  com.webmethods.sc.auditing.api.logger.WmAuditLoggerException: Null or duplicate context given to logger 'Error Logger'

  Now Integration Server generates unique contextIDs even under heavy load.

- PIE-40324

  Integration Server throws an error when an incoming message contains a pre-populated contextID and audit contextID.

  Integration Server writes the following error to the server.log when an incoming message contains a pre-populated context ID and audit contextID.

  [BAA.0000.0061] This context has already been used in the current context stack.

  Integration Server now handles a message with a pre-populated contextIDs and audit contextID and no longer logs the above error.

- PIE-40362

  Unable to publish a package to multiple subscribers.

  When publishing a package to multiple subscribers, clicking the 'Send Release' button in Integration Server Administrator prompts you to select a subscriber even though subscribers are selected.

  This issue is resolved.

- PIE-40363

  UserInfo service does not receive error information.

  If an OpenID Provider's UserInfo Endpoint returns an error, information about the error should be passed to the userInfoError input variable in the UserInfo service registered for the OpenID Provider. This is not happening.

  This issue is now resolved.

  Note: Previously, the userInfoError input variable was named error.

- PIE-40372

  Reply messages are sometimes not received with asynchronous request-reply using webMethods messaging and Universal Messaging as the messaging provider.

  In an asynchronous request-reply for webMethods messaging, the pub.publish:publishAndWait service is first invoked followed by the pub.publish:waitForReply. When the messaging provider is Universal Messaging, some reply messages are not received if Integration Server receives the reply message before invocation of the pub.publish:waitForReply service.

  This issue is now resolved.

- PIE-40408

  Enhancements for managing a service results cache. Integration Server now includes built-in services that you can use to manage a service results cache, including:

  pub.cache.serviceResults:resetServerCache resets the entire cache.

  pub.cache.serviceResults:resetServiceCache resets the cache for a particular service.

  pub.cache.serviceResults:listServiceCache lists the cached results for a particular service.

  In addition to the above services, Integration Server Administrator now includes a way to view the cached service results for a particular service. To use Integration Server Administrator to view the cached service results, do the following:

  1. Open Integration Server Administrator if it is not already open.

  2. In the Packages menu of the Navigation Panel, click Management.

  3. In the Packages list, click the package containing the service for which you want to view cached

service results.

4. Click Browse Services in packageName.

5. In the Services list, click the name of the service for which you want to view the cached service results.

6. On the Packages > Management > packageName > Services > serviceName page, click List Service Cache. Integration Server displays a list of the cached results for the service. For each cached element, Integration Server displays the key for the cached element, the cached service inputs, and the associated cached service outputs.

Notes:

- You can also access the Packages > Management > packageName > Services > serviceName page in the following way: Under Server, click Service Usage. On the Server > Service Usage page, click the name of the service for which you want to list cached results.

- To return a list of cached result for a service, the services results must be searchable and that the cache allows automatic indexing for keys. That is, for the service results cache, the Searchable check box must be selected and the Key check box next to Allow Automatic Indexing must be selected. Note that exposing the contents of the service results cache may represent a security risk.

- You can view cached service results for a public service results cache only. You cannot view cached service results in the ServiceResults system cache.

Below is more information about each of the new built-in services.

pub.cache.serviceResults:listServiceCache WmPublic.

Returns a list of the cached service results for a particular service.

Input Parameters

serviceName String. Name of the service for which you want to view the cached service results.

Output Parameters elements Document List. Conditional. A document list (IData) containing the cached service results for the specified service. The pub.cache.serviceResults:listServiceCache service returns the elements output only if the service results cache contains cached results for the specified service. For each set of cached service results, the pub.cache.serviceResults:listServiceCache returns the following information:

key String. Optional. Key for the cached element containing the service results.

input. Document. Optional. An IData containing the key/value pairs for the cached service input.

output Document. Optional. An IData containing the key/value pairs for the cached service output

Usage Notes:

- If serviceName specifies a service that does not exist or a service for which Integration Server does not cache service results, Integration Server returns an empty elements output parameter.

- You can use the pub.cache.serviceResults:listServiceCache with a public service results cache only. You cannot use the pub.cache.serviceResults:listServiceCache with the ServiceResults system cache.

- For the pub.cache.serviceResults:listServiceCache service to return results, make sure that the service results cache is searchable and that the cache allows automatic indexing for keys. That is, for the service results cache, the Searchable check box must be selected and the Key check box next to Allow Automatic Indexing must be selected.

- Exposing the contents of the service results cache via the listCacheService may represent a security risk.

pub.cache.serviceResults:resetServerCache

WmPublic. Resets the cache for all services in the service results cache, resulting in the removal of all cached service results for all services from the service results cache.

Input Parameters None.

Output Parameters message String. Message indicating whether or not Integration Server cleared the service results cache successfully.

- "Cache reset successfully" indicates that Integration Server cleared the entire service results cache successfully.

- "Error resetting cache!" indicates that Integration Server did not clear the entire service results cache successfully. Review the sever log and error log to determine why Integration Server did not clear the service results cache successfully.

pub.cache.serviceResults:resetServiceCache

WmPublic. Resets the cache for specific service, resulting in the removal of cached service results for the service.

Input Parameters serviceName String. Fully qualified name of the service in the format folder.subfolder:serviceName for which you want to remove cached service results.

Output Parameters message String. Message indicating whether or not Integration Server cleared the service results cache for the specified service successfully.

- "Cache reset successfully" indicates that Integration Server cleared the cached service results for the specified service successfully.

- "Error resetting cache!" indicates that Integration Server did not clear the cached service results for the specified service successfully. Review the sever log and error log to determine why Integration Server did not clear the service results cache successfully.

Note: To avoid revealing whether or not a service exists, if serviceName specifies a service that does not exist, the message output parameter returns the message "Cache reset successfully"

- PIE-40422

  Integration Server grants access to a user account disabled by the external user manager.

  Integration Server caches information for users who provide valid credentials. If the user later provides invalid credentials, Integration Server denies access but does not remove the cached information about the user. Consequently, if the user later provides valid credentials, Integration Server grants access even if an external user manager disabled the user account.

  Now, when a user provides invalid credentials, Integration Server removes the user information from the cache.

- PIE-40454

  The pub.storage:get service fails in a cluster.

  Integration Server improves the performance of the pub.storage* services by caching the DATASTORE_ID values from the IS_DATASTORE table. However, in a cluster, a cached DATASTORE_ID value might become stale due to actions taken by other Integration Servers in the cluster. A pub.storage* service fails when it attempts to use a stale DATASTORE_ID.

  Now, when a pub.storage* service attempts to use a stale DATASTORE_ID, Integration Server replaces it with the current DATASTORE_ID.

- PIE-40467

  Corrections for cosmetic issues in Integration Server Administrator.

  Integration Server Administrator displays some cosmetic issues, such as empty cells, deeply nested tables, and missing graphics, that are now repaired.

- PIE-40480

  When restarting Integration Server fix after applying a fix, expected changes are not made to the

embedded database.

If the ISInternal functional alias uses the embedded, internal database and application of an Integration Server fix made changes made to the database structure, Integration Server should perform some database updates upon restart of Integration Server. However, this was not happening.

This issue is now resolved.

- PIE-40504

A NullPointerException occurs when Integration Server enters quiesce mode and the JMS subsystem has not been initialized.

This issue is resolved. Integration Server can now enter quiesce mode even if the JMS subsystem has not been initialized.

- PIE-40505

Memory leak when invoking pub.jms:reply Integration Server did not correctly release JMS Session and MessageProducer objects when invoking the pub.jms:reply service, resulting in a memory leak. The issue is now resolved.

- PIE-40516

In a cluster of Integration Servers, the scheduled task for which the target node is set to "Any Node" and "Repeat After Completion" executes the same service simultaneously on different cluster nodes when the Terracotta Server Array becomes unavailable.

This issue is now resolved. Now, in a cluster of Integration Servers, a scheduled task with target node set to "Any Node" and "Repeat After Completion", executes the service only on one of the cluster nodes at a time when the Terracotta Server Array becomes unavailable.

- PIE-40517

Specifying a value of true for the watt.net.ssl.client.useJSSE server configuration property does not use JSSE for all of the outbound HTTPS connections from Integration Server.

After applying a fix or upgrading to a release that includes PIE-38599, Integration Server no longer honors the value of watt.net.ssl.client.useJSSE for outbound HTTPS connections. This occurs because PIE-38599 changed the default value of the useJSSE input parameter in the pub.client:http service to "no" from a null value. A value of "yes" or "no" for the useJSSE input parameter overrides the value of the watt.net.ssl.client.useJSSE server configuration property. A null value for the useJSSE input parameter causes the service to defer to the value of the watt.net.ssl.client.useJSSE server configuration property.

Now, the default value of the useJSSE input parameter for the pub.client:http service is null, which allows the watt.net.ssl.client.useJSSE server configuration property to determine the default behavior for outbound HTTPS connections.

- PIE-40548

Performance degradation observed in Integration Server.

Integration Server exhibits performance degradation in the GA versions 9.8, 9.9, and 9.10. Integration Server versions 9.6 and 9.7 exhibit a similar performance degradation after applying the latest fix.

The cause of the apparent performance degradation is now resolved.

- PIE-40561

During the migration of Integration Server from 9.0 to a later release, the migration utility also

migrates the server configuration parameters watt.core.schema.validateIncomingXSDUsingXerces and watt.server.wsdl.validateWSDLSchemaUsingXerces.

The migration utility need not migrate these server configuration parameters during the migration of Integration Server from 9.0 to a later release because the functionalities provided by the two parameters are replaced in releases starting with 9.0.

- The 'Validate schemas using Xerces' option in the New Web Service Descriptor wizard replaces the functionality of the watt.core.schema.validateIncomingXSDUsingXerces parameter.

- The value of the 'Validate schemas using Xerces' option is stored as the web service descriptor property 'validateSchemaUsingXerces' (which replaces the functionality of the watt.server.wsdl.validateWSDLSchemaUsingXerces parameter).

The issue is resolved. The specified server configuration parameters are removed from Integration Server starting with release 9.0.

▪ PIE-40569

Integration Server logs a message about JDBC connection pool waiting threads threshold count being exceeding erroneously.

Integration Server should log the following message only when a thread is waiting for the JDBC connection pool to have an available connection.

[ISS.0096.0009I] JDBC Connection pool waiting threads threshold exceeded, <number> threads waiting for connection for pool <JDBCPoolName> Integration Server should not log the above message if the JDBC pool is empty or the JDBC driver threw an exception when Integration Server attempts to create a connection. In these cases, there is not actually a waiting thread.

This issue is now resolved.

▪ PIE-40576

SFTP transfers fail due to timestamp parsing failure.

A change in the Log Timestamp Format (Settings > Logging > View Server Logger Details > Log Timestamp Format) changes the timestamp format returned by pub.client.sftp:ls service. This causes the SFTP transfers to fail due to the timestamp parsing failure.

To address this issue, Integration Server now includes a server configuration parameter which specifies the timestamp format for SFTP client public services.

watt.server.sftp.dateStampFmt

Specifies the format of date to be used in the SFTP client public services.

To specify the date format to use, you can use any format that is supported by the Java class java.text.SimpleDateFormat. For example, to display the date with the format 08-12-02 14:44:33:1235, specify dd-MM-yy HH:mm:ss:SSSS. The default format for watt.server.sftp.dateStampFmt property is yyyy -MM -dd HH:mm:ss z.

It is not necessary to restart Integration Server after you change the value of this parameter.

▪ PIE-40578

Reloading the Packages > Management page in Integration Server Administrator results in a re-execution of the last command on the page.

The Packages > Management page in Integration Server Administrator encodes the last action as part of the URL. Web browsers remember the last action as part of the history, resulting in the re-execution of the last action when reloading the frame.

To resolve this issue, for HTML5-compatible browsers, Integration Server alters the browser history so that that the URL for the Packages > Management page does not include the last action as part of

the URL. As a result, when reloading the frame, the last action will not be re-executed.

- PIE-40629
  A concurrent webMethods messaging trigger may not utilize all available threads.
  When a concurrent webMethods messaging trigger uses the maximum available threads for message processing, the next request for a thread must wait for a thread to be returned to the thread pool before another message can be processed. Integration Server returns a thread to the thread pool once message processing completes. When a thread becomes available, the waiting request should begin executing. However, instead of the request using a thread as soon as it becomes available, the request waits until the number of threads used by the trigger reaches 0 (zero). This results in periods of time when the trigger is not using all the available threads.
  Note: A trigger uses the maximum available threads when the number of messages being processed by the trigger equals the Max execution threads property value. For example, if Max execution threads is set to 10, the trigger uses the maximum available threads when it is processing 10 messages.
  Now, a concurrent webMethods messaging trigger will not wait for the number of the threads used by the trigger reaches zero before processing a waiting request. Instead, the trigger begins processing the waiting request as soon as a thread becomes available.

- PIE-40664
  The JSSE-enabled HTTPS ports fail to use the updated certificate.
  After adding a new certificate to the truststore and then reloading the truststore using the Integration Server Administrator (Security > Keystore), the JSSE-enabled ports do not use the added certificate.
  This issue is now resolved. The JSSE-enabled HTTPS ports now use the updated certificate after the corresponding truststore is reloaded using Integration Server Administrator.

- PIE-40684
  Integration Server Administrator sometimes displays two scrollbars right next to each other instead of a single scrollbar.
  This issue is now resolved.

- PIE-40687
  Display non-ASCII Unicode characters in the body of a Java service.
  When you persist Java services, Integration Server encodes non-ASCII Unicode characters as ASCII Unicode escape sequences (for example, the Korean character '?' is saved as '\uD55C'). By default, Integration Server does not decode the escape sequences. Therefore, when Integration Server sends Java service code to Software AG Designer, escape sequences appear in Designer instead of the original Unicode characters.
  This fix lets you configure Integration Server to decode the escape sequences. In Integration Server Administrator, go to Extended Settings and add "watt.server.ns.decodeJavaService=true." The change will take effect immediately (no server restart necessary).
  Note: After this change, Unicode escape sequences will no longer display in the Java service code in Integration Server. For example, if you use the string "\uD55C" in Java service code, the string will save correctly, but the editor will display it as "?".

- PIE-40688

Invoking pub.storage:get causes a pub.storage lock to be released immediately.
When using pub.storage:get to retrieve an item, Integration Server released the lock on the item immediately. However, when using pub.storage:get to retrieve an item, the lock on the item should remain until the lock is removed by a call to pub.storage:unlock, a call to pub.storage:put, or the lock expires.
This issue is now resolved.

▪ PIE-40693
Slow file transfer speed using pub.client.ftp:put.
While transferring files with large size (around 1 GB) using pub.client.ftp:put service, the file transfer speed is observed to be slow. Hence, it takes longer to complete the file transfer. This issue was due to the buffer limit in the amount of data that can be read and written to the stream (1KB). This issue is now resolved. Now, the buffer size is increased (32 KB) and hence, the transfer time for large files is less and is comparable with the FTP client on Microsoft Windows.

▪ PIE-40702
Change to Integration Server to address security vulnerability.
A certain form of URL, if executed, can cause a redirection that allows for the possibility of credential theft. The form of URL no longer causes a redirection. Instead, the Integration Server user receives an HTTP 404 response.

▪ PIE-40742
Package deployment fails because some packages are partially loaded.
When using Deployer to deploy IS packages, some packages only partially load. This causes deployment to fail.
This issue is now resolved. Packages are no longer partially loaded.

▪ PIE-40867
Modification to Integration Server to control the logging of messages about duplicate universal names for document types.
Whenever Integration Server loads a document type with an explicit universal name (such as when a package is loaded), Integration Server registers the universal name. If Integration Server loads a document type whose explicit universal name is a duplicate of one that is already registered, Integration Server logs the following error message:
"[ISC.0081.0002E] Error registering universal name <universal_name>, already registered to <document_type>" filling the IS logs
A user cannot use Designer or Developer to assign the same universal name to a document type. However, if the same WSDL document is used to generate multiple consumer Web service descriptors and/or multiple WSDL first provider Web service descriptors, Integration Server creates multiple document types with the same universal name explicit. When loading a package containing these document types, Integration Server logs the error message mentioned above multiple times which can clutter the log file. To suppress the error message about registering a duplicate universal name, add the following to extended settings on the Settings > Extended > Edit Extended Settings page

watt.server.ns.logErrorsOnRegisteringMultipleDocTypesForAUniversalName=false
After you save your changes, you do need to restart Integration Server for these changes to take effect. If you want Integration Server to resume logging message about registering duplicate universal names, set watt.server.ns.logErrorsOnRegisteringMultipleDocTypesForAUniversalName to true. The default value is true.
Note: Setting watt.server.ns.logErrorsOnRegisteringMultipleDocTypesForAUniversalName to false suppresses the error messages about duplicate universal names only. It does not resolve the duplicate names.

- PIE-40940
  OAuth authentication is not disabled for requests that contain an Auhorization header with a Bearer access token even after setting the watt.server.auth.oauth.accessToken.useHeaderFields parameter to false.
  When watt.server.auth.oauth.accessToken.useHeaderFields is set to false, Integration Server should not perform OAuth authentication if Authorization header field contains an access_token. However, if the Authorization header field of an incoming request contains a Bearer access token and the watt.server.auth.oauth.accessToken.useHeaderFields is set to false. Integration Server writes the following messages to the server log:
  [ISS.0012.0012W] Authentication of user "bearer" failed with exception: [ISS.0010.8044] Integration Server rejected the request to access this resource. The access token is either invalid or expired. [ISS.0053.0002C] Access denied for user bearer on port 5555 -> ...
  This issue is now resolved. If watt.server.auth.oauth.accessToken.useHeaderFields is set to false and a request contains an Authorization header field with a Bearer access token, Integration Server disables OAuth authentication for the request.

- PIE-40950
  Failure to close JSSE SSL connections after handling stateless requests may negatively impact performance.
  When Integration Server finishes handling a stateless request received on a port that uses JSSE for SSL, Integration Server does not close the SSL connection. This causes Integration Server to build up stale connections and slows down port allocation, which affects performance.
  This issue is now resolved.

- PIE-40962
  The encode method of IDataXMLCoder class closes the OutputStream after encoding the IData object.
  The encode method of IDataXMLCoder class, encode(java.io.OutputStream os, IData data) encodes the IData object and closes the OutputStream even though the OutputStream is created by the caller.
  This issue is resolved.

- PIE-40984
  Configuration property to determine whether missing SOAP headers result in an error message.
  Prior to Integration Server version 9.0, when processing a SOAP received by a web service

descriptor, Integration Server did not properly validate that all of the SOAP headers were present. As a result, Integration Server did not throw an error when a SOAP response was missing a SOAP header. Note that all headers in a web service descriptor, whether generated from the original WSDL document or added to the web service descriptor, are treated as required. This is an application of the WS-I basic profile rules declaring that all headers in a WSDL be treated as required. Beginning in Integration Server version 9.0, Integration Server properly validates SOAP responses for required headers. If a required header is not present, Integration Server throws the following error: [ISS.0088.9443] One or more required Headers <headerName> are not present in the SOAP response."

After upgrading to Integration Server 9.0 or higher from an earlier version, web service connectors that previously succeeded when a required header was missing from a SOAP response now fail. While failure when a required header is missing is the correct and documented behavior, Integration Server now provides a configuration property to control whether missing required headers in a SOAP response results in an error. This can be useful in migration situations. When watt.server.SOAP.ignoreMissingResponseHeader is set to true, a SOAP response that does not contain a required header will not result in an error. The default is false, a SOAP response that does not contain a required header results in an error. Integration Server restart is not required for changes to take effect.

- PIE-40985
  SOAP web service fixes for backward compatibility.
  This fix bundles four separate fixes relating to upgrade and migration of web services. The fixes allow backward compatibility of behavior that has since been prohibited through stricter validation in newer releases.
  (1) Allow 7.1.3 web service providers to process requests with mismatched SOAP versions.
  A range of fix levels in 7.1.3 allowed web service providers to process SOAP requests with a SOAP version that did not match the SOAP version that was declared in the WSDL binding. This fix adds a new extended server setting to emulate the old, less strict behavior so that consumers will not have to update their SOAP requests. The setting only affects web service providers that were created in releases older than 8.2.2 and for which the property "Pre-8.2 compatibility mode"=true. The new parameter is watt.server.SOAP.pre82WSD.ignoreVersionMismatch. By default, this parameter is set to false. To use the parameter to emulate the old behavior, go to Integration Server Administrator and add watt.server.SOAP.pre82WSD.ignoreVersionMismatch=true to the extended settings.
  (2) Correctly perform document type-directed decoding of a SOAP message when the corresponding namespace qualified document type field does not have a namespace prefix. Starting with release 8.2.2, any document type field that contains a namespace must have a namespace prefix in its name in order to be used with web services. In 7.1.x, this prefix was not required. With this fix, document types migrated from 7.1.x that do not meet the 8.2.2 and later IS web service requirements will match the decoded IData representations of SOAP messages as they did in 7.1.x. Specifically, this issue applies in cases where the Decoder needs to choose between converting a simple type value into a string field or into a mixed content DocType with a *body field.
  (3) Allow empty or absent *body values to pass validation.
  A validation error occurred in some 9.x releases during decoding of mixed content elements that

have an enumeration restriction. The error occurred when optional missed content was absent, because an empty value was not listed as an option in the enumeration set for the *body field. This fix adds an extended setting to skip this validation and treat the *body as completely optional. The new parameter is watt.core.validation.skipAbsentStarBody. By default, this parameter is set to false.

To use the parameter to skip the new validation, go to Integration Server Administrator and add watt.core.validation.skipAbsentStarBody=true to the extended settings. (4) Process one-way SOAP request without a Null Pointer Exception. After receiving a SOAP request, some one-way web service providers return an error containing a Null Pointer Exception. This fix handles the condition that resulted in an error when processing the SOAP request.

▪ PIE-41066
When executing the pub.soap.wsrm:createSequence service without specifying the value of the sequenceKey input parameter, Integration Server incorrectly reports the messaging sequence as null.

This issue is now resolved. When the pub.soap.wsrm:createSequence service is executed without specifying the value of the sequenceKey input parameter, Integration Server returns the server Sequence ID associated with the messaging sequence.

▪ PIE-41090
Enhancement to Integration Server to use regular expressions for specifying the URIs for allowed origin servers.

When CORS is enabled, the watt.server.cors.allowedOrigins server configuration parameter indicates the origin servers from which Integration Server will accept requests. The watt.server.cors.allowedOrigins value can be a comma-separated list identifying the specific origin servers or a "*", meaning any origin server is allowed. A comma-separated list can become long and difficult to maintain.

To make the list of origin servers easier to maintain, Integration Server now supports the use of regular expressions in the comma-separated list of allowed origin servers. Integration Server treats any value in the comma-separated list that begins with "r:" as a regular expression. Integration Server treats any value that does not begin with "r:" as a simple string. The server configuration parameter uses the Java regular expression syntax, as documented at https://docs.oracle.com/javase/7/docs/api/java/util/regex/Pattern.html. A regular expression value must match the entire value of the Origin header in the HTTP request for it to be considered a match.

Example:
watt.server.cors.allowedOrigins=http://test1.domain.com,r:https?://.*.test2.domain.com:[0-9]+,r:.+\.[a-zA-Z]*-int.domain.com

Integration Server treats the first value, "http://test1.domain.com", as a simple string. If an Origin header contains this value, it will be allowed.

The second value, "r:https?://.*.test2.domain.com:[0-9]+", contains a regular expression. The "r:" is not part of the regular expression. The actual regular expression used to match supplied Origin headers is "https?://.*.test2.domain.com:[0-9]+".

The third value, "r:.+\.[a-zA-Z]*-int.domain.com", contains a regular expression. The "r:" is not part

of the regular expression. The actual regular expression used to match supplied Origin headers is
".+\.[a-zA-Z]*-int.domain.com".

"Origin: http://test1.domain.com" will be allowed because it is equal to the first value.

"Origin: http://my.test2.domain.com:8080" will be allowed because it matches the second value.

"Origin: https://my.test2.domain.com:8088" will be allowed because it matches the second value.

"Origin: http://my.test2.domain.com" will not be allowed. If it had a port number, it would match the second value.

"Origin: nbps://example.prod-int.domain.com" will be allowed because it matches the third value.

"Origin: example.qa.staging-int.domain.com" will be allowed because it matches the third value.

"Origin: example.dev1-int.domain.com" will not be allowed. If the second token of the host name did not include any digits, it would have matched the third value.

watt.server.cors.allowedOrigins=*

The simple wildcard "*" continues to work as before. It indicates that any origin server will be allowed.

Regular expressions that match any host name, IP address and port (e.g. "r:.+" and "r:.*") will have the same effect as "*".

Note that when CORS is enabled, Integration Server evaluates the list of regular expressions in watt.server.cors.allowedOrigins sequentially for every request. Integration Server performs a regular expression match operation on each regular expression until a match is found or all regular expressions in the list have been evaluated. Software AG recommends that you put the more frequently matched regular expressions at the beginning of the comma-separated list.

- PIE-41109
  Swagger document and REST Resources tab for REST API descriptor does not represent service input correctly when the service signature includes one or more Document, Document List, Document Reference, or Document Reference List field and another type of field.
  The Swagger document and REST Resources tab for a REST API descriptor that includes a REST resource (service) whose service signature includes one or more Document, Document List, Document Reference, or Document Reference List fields in addition to another type of field does not correctly represent the service signature. Integration Server places all of the input parameters for that resource into a REST Definition and sets the source to Body which is incorrect. Integration Server should place the Document, Document List, Document Reference, or Document Reference List fields in the REST Operation as Body parameters that reference the REST Definitions and place the parameters that are not documents in the REST Operation as Header parameters.
  This issue is now resolved.

- PIE-41121
  Integration Server does not show reliable messaging sequence reports in certain situations.
  When Integration Server exchanges messages with a reliable messaging client where the web service operation uses In-Only Message Exchange Pattern (MEP), the reliable messaging sequence reports are not displayed on Integration Server.
  The issue is now resolved. The reliable messaging sequence reports specifying the Server Sequence ID are displayed on Integration Server in situations where the web service operation uses In-Only MEP.

- PIE-41147

  Integration Server Administrator returns a blank page when you run the
  wm.server.query:getSettings service from the WmRoot package.
  This issue is resolved.

- PIE-41152

  When watt.net.http401.throwException is set to false and the pub.client:http service receives a 401
  error, the service does not include the body of the response in the output.
  If the watt.net.http401.throwException server configuration property is set to false, when the
  pub.client:http service receives a 401 error response, the service places the HTTP response header
  and body in the output pipeline. However, the pub.client:http service was not placing the response
  body in the output pipeline.
  This issue is now resolved.

- PIE-41155

  Integration Server fails to act as an FTP server. An attempt by an FTP client to connect to an FTP
  port on Integration Server fails with a NullPointerException.
  This issue is now resolved.

- PIE-41176

  Web service fails with a RampartException while handling a holder-of-key SAML 2.0 assertion.
  When handling a holder-of-key SAML 2.0 assertion, a web service fails with the following
  exception: RampartException: No crypto property file supplied for decryption.
  This issue is now resolved.

- PIE-41281

  Integration Server Administrator displays incorrect values for fields in Security > Ports.
  Integration Server Administrator displays incorrect values (default values) for "Use JSSE" and
  "Client Authentication" fields in the Security Configurations section of Security > Ports.
  This issue is now resolved.

- PIE-41315

  When Integration Server receives a request with a REST-style URL and an OAuth Bearer token,
  Integration Server rejects the request with a 403 HTTP status code.
  This issue is now resolved. An OAuth Bearer token can be used to access a REST resource that is in
  the scope for which the token was issued.
  Note: Because the service name does not appear in a REST-style URL, do not include the service
  name when defining the OAuth scope. A scope for an Integration Server REST resource must
  include the full name of the resource but not the name of the service.

- PIE-41320

  Memory leak in transaction manager.

Transaction manager retains an association to com.wm.app.b2b.server.ServerThread which is not being removed during transaction manager cleanup. Consequently, the association between the transaction and the server thread is not being cleaned up, which prevents the transaction manager entry from being removed.

This issue is now resolved.

- PIE-41324
Integration Server Administrator displays a Package Load Error loading a package created on Integration Server 7.x or earlier.
Using Integration Server Administrator to load a package created on Integration Server 7.x might result in a Package Load Error caused by a NullPointerException.
This issue was originally resolved in fixes that included PIE-33326. Unfortunately, recent revisions of some Integration Server fixes introduced a regression that allowed the problem to reappear. This fix resolves the regression.

- PIE-41345
The pub.utils.messaging:migrateDocTypesTriggersToUM service does not migrate filters with parentheses properly.
When migrating a trigger filter condition that contains parentheses, the pub.utils.messaging:migrateDocTypesTriggersToUM service removes the parentheses from the filter. The pub.utils.messaging:migrateDocTypesTriggersToUM service now preserves parenthesis when migrating trigger filter conditions.

- PIE-41375
Integration Server does not indicate when it is disconnected from a cluster.
Integration Server does not log an error message when it is disconnected from a cluster, preventing automatic detection of the situation. Now, Integration Server logs the following error message when it is disconnected from the cluster.
[ISS.0033.151] The cluster is now not operational,
Additionally, Integration Server logs the following error message when it rejoins the cluster.
[ISS.0033.152] The cluster is now operational.

- PIE-41444
Integration Server throws a NullPointerException instead of logging trace level information when the HTTP Header (0038) server log facility is set to Trace and an incoming request does not contain any credentials.
This issue is now resolved.

- PIE-41464
Exception handling for the pub.client:smtp service results in a ClassCastException being thrown for a SocketTimeoutException or a ConnectException.
The pub.client:smtp incorrectly handles the exceptions java.net.SocketTimeoutException and java.net.ConnectException by throwing them as a java.lang.ClassCastException.
This issue is now resolved.

- PIE-41497

  A request that includes a URL alias for a REST resource and includes an OAuth access token fails.
  When a URL alias exists for a REST resource and partial matching is enabled for URL aliases
  (watt.server.url.alias.partialMatching=true), the URL alias can be used with variable trailing tokens
  to create a request URL that invokes services for the REST resource and passes the $resourceID,
  $path, and custom variables to the services. (With the Bearer authorization scheme, the
  Authorization request header includes an OAuth access token instead of username and password.)
  However, if the request URL uses the Bearer authorization scheme, the request fails and Integration
  Server returns an HTTP 401 status code.
  This issue is now resolved. A request that uses the Bearer authorization scheme can also use a URL
  alias to request a REST resource.

- PIE-41502

  When acting as a web service client, Integration Server displays an error if the response from a web
  service provider contains the value of the content-encoding header as identity.
  When acting as a web service client, Integration Server displays the following error when the
  response from a web service provider contains the value of the content-encoding header as identity:
  "Received unsupported content-encoding: identity"
  This issue is now resolved.

- PIE-41529

  Info message is logged continuously in the server log.
  If you configure the email port to IMAP email server and select "Log out after each mail check"
  functionality, then the following Info message is continuously logged in the server log:
  "[ISP.0068.0029I]Logging out of IMAP Server"
  This issue is now resolved. Now, this message is moved to DEBUG level.

- PIE-41582

  Integration Server Administrator does not allow Username/Password as the Client Authentication
  method if Realm URL specifies nsps or nhps as the protocol.
  When creating a Universal Messaging Connection Alias, Integration Server Administrator performs
  a UI validation to check if Realm URL specifies nsps or nhps as the protocol. Integration Server
  Administrator displays the following message when you select Username/Password as the Client
  Authentication method. "Client authentication must be set to SSL if Realm URL specifies includes
  nsps or nhps."
  This issue is resolved. The UI validation is now disabled which allows you to select
  Username/Password as the Client Authentication method if Realm URL specifies nsps or nhps as
  the protocol.

- PIE-41611

  Client side queue for webMethods messaging does not drain completely.
  When Integration Server drains the client side queue by publishing or delivering messages from the
  client side queue to the webMethods messaging provider, some failures may occur. Integration

Server handles the failures based on the exception type. If the exception type is fatal, Integration Server writes the message to the audit log and removes it from the client side queue. If the exception type is transient, Integration Server retries publishing or delivering the message. However, if the client side queue contains published and delivered messages and fatal exception occurs during publish or delivery of a message, Integration Server might add the message back to the client side queue instead of writing it to the audit log. This prevents the client side queue from fully draining and may cause the queue to drain slowly.

This issue is now resolved.

▪ PIE-41677

Integration Server fails to clear the connections of failed remote service executions that were invoked using the pub.remote:invoke service.

This issue is now resolved. Now, if a remote service execution fails, then the connection to remote server is closed completely.

▪ PIE-41782

No option to select Java Secure Socket Extension (JSSE) socket factory for HTTPS outbound connections.

When accessing a web service through HTTPS protocol using the pub.client:soapClient service, there is no option to select JSSE for HTTPS outbound connections. The server configuration property "watt.net.ssl.client:useJSSE" applies to all outbound HTTPS connections and hence, user cannot select JSSE for individual web services call.

This issue is now resolved. Now, an optional input parameter "useJSSE" is added to the pub.client:soapClient service.

If the value of "useJSSE" field is left empty or unspecified, then Integration Server uses JSSE for outbound web service call based on the server configuration property "watt.net.ssl.client.useJSSE".

If the value of "useJSSE" field is set to "yes", then the Integration Server uses JSSE for the outbound web services call.

If the value of "useJSSE" field is set to "no", then the Integration Server uses Entrust IAIK library for the outbound web services call.

▪ PIE-41794

Changes to Integration Server to notify a caller that provides an expired session id.

After applying a fix or installing a release that includes PIE-37166, Integration Server prompts users for credentials if no matching session object can be found for a given session ID stored in a cookie. This behavior is controlled by the watt.security.session.forceReauthOnExpiration server configuration property. When set to true, the more secure behavior, Integration Server rejects requests that include a session id mapped to an expired or invalid session object and prompts the user for credentials. Setting the server configuration property to false instructs Integration Server to create a new session object, assuming the session id is valid and trusted. In case of the server configuration property value set to true (the default), Integration Server does not notify the caller that a valid session object no longer exists. Nor does Integration Server request that the caller deletes the cookie with the expired session.

Now, when Integration Server receives a request with a session id mapped to a session object that

no longer exists, Integration Server notifies the caller and requests that the cookie containing the expired session id be deleted. It is then up to the caller, usually a browser, to react to the notification.

- PIE-41806
  Enhancement to allow loggers on multiple Integration Servers to share a Universal Messaging queue for logging across a Universal Messaging realm.
  The naming convention for the Universal Messaging queue used by a logger now includes the client prefix if the Share Client Prefix check box is selected for the Universal Messaging connection alias used by the logger. By including the client prefix in the namespace of the queue name, loggers for Integration Servers in a stateless or stateful cluster can share same Universal Messaging queue across a Universal Messaging realm. That is, loggers on multiple Integration Servers can write log entries to and read log entries from one Universal Messaging queue shared across a Universal Messaging realm.
  Previously, the Universal Messaging queue name did not include the client prefix as part of the queue namespace regardless of the state of the Share Client Prefix check box. If the Share Client Prefix check box is selected for the Universal Messaging connection alias, the Universal Messaging queue name uses the naming convention: wm/is/audit/clientPrefix/logger_nameQueue (for example, wm/is/audit/myClientPrefix/SessionQueue). If the Share Client Prefix check box is not selected for the Universal Messaging connection alias, the Universal Messaging queue name uses the naming convention: wm/is/audit/logger_nameQueue (for example, wm/is/audit/SessionQueue). If you change the state of the Share Client Prefix check box on the Universal Messaging connection alias is used by loggers, you must restart Integration Server for changes to the queue name to take effect. Additionally, you must make the same changes to other Integration Severs in the cluster that use the alias.

- PIE-41825
  Cookies not included in some HTTP requests.
  When the pub.client:http service is used to send requests to a remote server, and the server returns a cookie, in some cases the cookie is not included in subsequent calls to the server.
  With this fix, the cookies are used on subsequent calls.

- PIE-41880
  webMethods Messaging triggers do not recognize nested documents in a filter when parent and child documents have the same name.
  The name of inline document fields are represented as "Message" names in the protobuf descriptors used by Universal Messaging filters. Because of the message name conflict, the filters are never satisfied and the triggers do not fire.
  This fix corrects the problem by using the name of the parent plus the actual field as the protobuf message name. After you install this fix, edit and save the root document type, then sync it with the UM Provider. The filters will begin to work properly.

- PIE-41900
  The pub.client.http fails to set the auth token.

If the 'auth' type is set to Bearer, then the pub.client.http service fails to set the auth token into the Authorization header while sending a request to the HTTP server.
This issue is now resolved.

▪ PIE-41986
After installing a fix or a release that includes PIE-37166, a dynamic server page (DSP) request that includes a service invoke of a stateless service prompts for credentials even though the service and DSP are secured with the Anonymous ACL.
The resolution for PIE-37166 introduced the server configuration parameter watt.security.session.forceReauthOnExpiration, which, when set to true, causes Integration Server to reject any request that includes a cookie identifying an expired or invalid session even if the request includes valid user credentials. That is, when set to true, Integration Server does not implicitly create a new session for an expired session and Integration Server deletes the session object for the expired session. A result of this change is that a sequence a DSP requests that includes a service invoke of a stateless service prompts for credentials even though the service and DSP are secured with the Anonymous ACL.
Note: This issue does not occur when watt.security.session.forceReauthOnExpiration is set to false. Keep in mind that setting watt.security.session.forceReauthOnExpiration to true, the default value, offers more secure behavior.
Now, Integration Server preserves the session object.

▪ PIE-42132
Enhancement to limit the number of server log files that Integration Server keeps on the file system.
Integration Server writes its server log to a file named server.log. When this file is rotated, the existing contents of server.log are saved to a new file named server.log_<current-date>_<current-time>. Over time, the number of archived server log files increases and may consume large amounts of disk space.
To address this issue, Integration Server provides the watt.server.serverlogFilesToKeep server configuration parameter to control the number of server log files that Integration Server maintains on the file system, including the current server log file. When Integration Server reaches the limit for the number of server log files, Integration Server deletes the oldest archived server log file each time Integration Server rotates the server log.
If the parameter value is 30, for example, Integration Server keeps the current server log file and up to 29 previous server log files.
If the parameter value is less than 1, Integration Server keeps an unlimited number of server log files.
If the parameter value is 1, Integration Server keeps the current server log file (server.log) and no previous (archived) server logs.
The default for watt.server.serverlogFilesToKeep is -1, which places no limit on the number of server log files kept on the file system.
You must restart Integration Server for changes to this parameter to take effect.

▪ PIE-42173
New parameter for existing service pub.cache.serviceResults:resetServiceCache and new service

pub.cache.serviceResults:addCacheEntry are added to Integration Server as part of this fix.
pub.cache.serviceResults:addCacheEntry
WmPublic. Adds cached entry into service results for the service without executing the actual service. This service can be useful to perform bulk load of service results at Integration Server startup.
Input Parameters <serviceName> String Required. Name of the service for which to add the cache entry into cached service results.
<input> Document Required. An IData containing the key/value pairs for the cached service input.
<output> Document Required. An IData containing the key/value pairs for the cached service output.
Output Parameters None.
Usage Notes If <serviceName> does not exist in Integration Server, or it is not enabled to cache service results, Integration Server throws an exception.
pub.cache.serviceResults:resetServiceCache An optional input parameter is added to delete specific cached elements for a particular service.
<input> Document Optional. An IData containing key/value pairs that indicate the cached elements to remove.

- PIE-42308
Support for session caching for transacted JMS connection aliases.
Previously, Integration Server provided session caching for non-transacted JMS connection aliases. Now, Integration Server provides support for session caching for transacted JMS connection aliases when the JMS provider is Universal Messaging 9.10 or WebSphere MQ 7.5. The following paragraphs provide more information about this feature.
When sending a JMS message, Integration Server creates and closes a new JMS session object and a JMS MessageProducer object for each message. This can introduce overhead for some JMS providers. To improve performance when sending JMS messages using a transacted JMS connection alias, you can configure session caching for a JMS connection alias.
For each JMS connection alias, Integration Server can create the following session pools:
- A default session pool containing JMS Session objects. When a default session pool is defined for a JMS connection alias, Integration Server draws from a pool of open JMS Sessions for sending a JMS message instead of opening and closing a JMS Session for each JMS message. Integration Server uses the default session pool only when sending a message to a destination that does not have its own pool. Integration Server creates a new MessageProducer each time it sends a JMS message.
- Destination-specific session pools containing JMS Session objects for sending JMS messages to identified destinations. Integration Server creates a pool for each specified destination. When sending a JMS message to one of the specified destinations, Integration Server uses a Session object from the pool instead of creating and closing a Session object for each JMS message. Integration Server creates a new MessageProducer each time it sends a JMS message.
Note: When using destination-specific session pools for a transacted JMS connection alias, Integration Server creates a new MessageProducer each time it sends a JMS message. This is different from the destination pools that Integration Server creates for a non-transacted JMS connection alias where each entry in the destination-specific pools contains a Session object and a Message Producer object.
Note: A transacted JMS connection alias specifies LOCAL_TRANSACTION or

XA_TRANSACTION for the Transaction Type.

To configure session caching for a transacted JMS connection alias, do the following:

1. Using Integration Server Administrator, open the JMS connection alias for editing.

2. Under Producer caching, for Caching Mode, select ENABLED PER DESTINATION.

3. To configure the size of the default session pool for this alias, specify the following:

- In the Minimum Pool Size field, specify the minimum number of entries in the default session pool for this alias. The default is 1.

- In the Maximum Pool Size field, specify the maximum number of entries in the default session pool for this alias. The default is 30.

4. To configure the size of the session pools created for specific destinations, specify the following:

- In the Minimum Pool Size Per Destination field, specify the minimum number of entries in each destination- specific pool.

- In the Maximum Pool Size Per Destination field, specify the maximum number of entries in each destination-specific pool. A value of 0 (or blank) indicates that Integration Server does not create separate pools for any of the destinations associated with the JMS connection alias.

In the Destination Lookup Name List, specify a semicolon-delimited list of the lookup names for the destinations for which you want Integration Server to create separate session pools for this alias.

5. Click Save Changes.

This issue is now resolved.

- PIEAR-799

  The threads which creates the connection and the threads which ends the connection from the connectionPool can go to blocked state.

  To recover from such a situation, Connection pool now has a monitor thread which is a pool interrupter thread, to interrupt the server threads which are in blocked state while creating or ending the connection.

  The following properties are introduced to configure the connection time outs:

  1-> watt.server.jca.connectionPool.threadInterrupter.sleepTime. The default value of the watt property is 2000msec, which is the sleep time for the pool interrupter thread.

  2-> watt.server.jca.connectionPool.threadInterrupt.waitTime. This property specifies the wait time, measured in milliseconds, that elapses before Integration Server Connection pool interrupts a connection creating or ending thread which is in a wait state. The pool interrupter thread will start monitoring the server threads, only if this property is set. There is no default value.

  You must restart Integration Sever for changes to this parameter to take effect.

  Use the following service to manage the connections which are hung:

  pub.art.connection:getInterruptedThreadStatus. This service takes the connection alias name as input and lists the connection threads which are not responding even after interrupting by the connection pool interrupter. We recommend a manual intervention for the server threads which gets hung while creating or destroying the connections and also not responding to the interrupt mechanism.

Release 9.10

- PIE-36529 (IS_8.2_SP2_Core_Fix18, IS_9.0_SP1_Core_Fix12, IS_9.5_SP1_Core_Fix9, IS_9.6_Core_Fix8)

An outbound web service request that used MTOM attachments causes out of memory issues if the attachments are large.

An outbound web service request incorrectly used a memory-buffered output stream when requests with large MTOM attachments were made to external endpoints.

Outbound web service requests that use MOTM attachments now use the correct output stream and chunk the large MTOM attachment.

▪ PIE-36506 (IS_8.2_SP2_Core_Fix19, IS_9.0_SP1_Core_Fix12, IS_9.5_SP1_Core_Fix10, IS_9.6_Core_Fix9)
The pub.security.keystore:setKeyAndChain service clears security parameters after each outbound call instead of when the pub.security.keystore:clearKeyAndChain service executes.
In previous releases, Integration Server did not clear the security parameters configured for the outbound call by the pub.security.keystore:setKeyAndChain service until the pub.security.keystore:clearKeyAndChain executed. Now, Integration Server clears the security parameters after each outbound call. The new behavior is not backward compatible.
Now, the security values configured by pub.security.keystore:setKeyAndChain stay in effect until pub.security.keystore:clearKeyAndChain gets invoked.

▪ PIE-37676 (IS_8.2_SP2_Core_Fix19, IS_9.0_SP1_Core_Fix12, IS_9.5_SP1_Core_Fix10, IS_9.6_Core_Fix9)
An attempt to authenticate a cache manager user fails with an IllegalThreadStateException.
When authenticating users of a cache manager, a race condition caused an IllegalThreadStateException to be thrown.
The race condition that caused the IllegalThreadStateException is now resolved.

▪ PIE-36620 (IS_8.2_SP2_Core_Fix19, IS_9.0_SP1_Core_Fix13, IS_9.5_SP1_Core_Fix10, IS_9.6_Core_Fix9)
Integration Server returns an HTTP 500 error in response to successive requests made on persistent HTTP connections.
When client reuses a persistent HTTP connection to send multiple requests, Integration Server should handle the request and send a response. However, Integration Server sometimes incorrectly returned a HTTP 500 error, which caused the request to fail.
This issue is now resolved.

▪ PIE-37093 (IS_8.2_SP2_Core_Fix19, IS_9.0_SP1_Core_Fix13, IS_9.5_SP1_Core_Fix10, IS_9.6_Core_Fix9)
When using the VCS Integration feature in Integration Server, delete and safe delete of a version-controlled node fails with an error.
This issue is now resolved.

▪ PIE-37325 (IS_8.2_SP2_Core_Fix19, IS_9.0_SP1_Core_Fix13, IS_9.5_SP1_Core_Fix10, IS_9.6_Core_Fix9)
Integration Server does not send HTTP cookies after a request is redirected.
When the pub.client:http service sends a request to an HTTP server and the HTTP server responds with a redirection (a 300-level status code) and a Set-Cookie header, Integration Server includes the cookie in the request to the HTTP server to which the request is being redirected. However,

subsequent requests to the second server do not include the cookie.

Now, when a HTTP server includes a Set-Cookie header in a redirection response, Integration Server includes the cookie in the request and subsequent requests sent to the HTTP server to which the request is redirected.

▪ PIE-38245 (IS_8.2_SP2_Core_Fix19, IS_9.0_SP1_Core_Fix13)

The pub.flow:transportInfo document type signature is incorrect as seen on the Input/Output tab. The signature for the pub.flow:transportInfo document type is missing 2 fields: filePolling/lastModified and filePolling/length.

This issue is now resolved. The signature of the pub.flow:transportInfo document type now includes the filepolling/lastModified and filepolling/length parameters.

▪ PIE-38290 (IS_8.2_SP2_Core_Fix19, IS_9.0_SP1_Core_Fix13)

Integration Server resets the central user management system when lookup for a user in the central user management fails with an error.

The reset causes a failure of other operations on the central user management system.

This issue is resolved.

▪ PIE-37898 (IS_8.2_SP2_Core_Fix19, IS_9.6_Core_Fix9)

Integration Server becomes unresponsive during startup.

Integration Server sometimes became unresponsive at startup when initializing the scheduler. This occurred because of a database deadlock.

This issue is now resolved and the deadlock will no longer occur.

▪ PIE-36477 (IS_8.2_SP2_Core_Fix19)

After transitioning to or from daylight savings time, scheduled tasks run twice or not at all.

Integration Server runs scheduled tasks based on the time relative to the time zone. This caused issues when entering and exiting daylight savings time, specifically tasks ran twice or not at all. Now, Integration Server runs scheduled tasks based on coordinated universal time (UTC). Because Integration Server runs the tasks without regard to the relative time zone, the start and end of daylight savings time does not affect the execution of scheduled tasks.

▪ PIE-36386 (IS_9.0_SP1_Core_Fix11, IS_9.5_SP1_Core_Fix10, IS_9.6_Core_Fix8, IS_9.7_Core_Fix5)

When a flow service invokes a service that does not exist, Integration Server handles operations on the pipeline first before issuing a runtime exception.

When a flow service invokes a service that does not exist, Integration Server performs operations on the pipeline, such as removing the dropped variables from the pipeline, before issuing a com.wm.lang.flow.FlowException about the unknown service.

This issue is resolved. Integration Server now issues the runtime exception when a flow service invokes a service that does not exist and will not proceed with the pipeline operations.

▪ PIE-35990 (IS_9.0_SP1_Core_Fix12, IS_9.5_SP1_Core_Fix10, IS_9.6_Core_Fix8)

When using Oracle Streams Advanced Queuing (AQ) as the JMS provider, if the JMS connection alias is disabled due to an error from the JMS provider, the JMS connection continues to show the status as "in progress".

If a JMS connection alias, when attempting to establish a connection with Oracle Streams Advanced Queuing (AQ) as the JMS provider, is disabled due to an error from the JMS provider, the JMS

connection continues to show the status as "in progress" and cannot be enabled or disabled. This issue is resolved.

- PIE-37022 (IS_9.0_SP1_Core_Fix12, IS_9.5_SP1_Core_Fix10, IS_9.6_Core_Fix8)
  Integration Server logs the following error twice for the same port in the server logs while shutting down:
  [ISP.0046.0011I] Disabling HTTP Listener on port <port number>
  This issue is resolved. Integration Server now logs this message only once while shutting down.

- PIE-35873 (IS_9.0_SP1_Core_Fix12, IS_9.5_SP1_Core_Fix9, IS_9.6_Core_Fix8)
  Change to allow use of forward slash in a regular expression.
  Prior to this change, regular expressions used in BRANCH steps and trigger filters could not include a forward slash. Now, a forward slash can be used. However, the forward slash must be preceded by the backslash (\) escape character. For example, to use a regular expression to match a variable whose value contains the string "a/b", use the regular expression %variableName% = /a\/b/

- PIE-37271 (IS_9.0_SP1_Core_Fix12, IS_9.5_SP1_Core_Fix9, IS_9.6_Core_Fix8)
  In certain scenarios, invoking the pub.xml:getNextXMLNode service fails with an exception.
  Invoking the pub.xml:getNextXMLNode service fails with a NullPointerException if the specified NodeIterator is returned by the pub.xml:getXMLNodeIterator service that has the criteria input parameter set to a string value that matches an element node of the XML node.
  This issue is resolved.

- PIE-34881 (IS_9.0_SP1_Core_Fix12)
  Integration Server does not behave as expected when validating an XML document against a document type created from an XML schema definition containing <xs:restriction base="xs:anyType">.
  When using the pub.schema:validate service to validate an XML document against a document type created from an XML schema definition containing <xs:restriction base="xs:anyType">, the validation does not fail even if the target element contains attributes other than the attributes defined in the XML schema definition.
  This issue is resolved. Now, validation of XML fails if there are any attributes other than the defined attributes.

- PIE-36217 (IS_9.0_SP1_Core_Fix13, IS_9.5_SP1_Core_Fix10, IS_9.6_Core_Fix9)
  An outbound HTTPS web service request fails when using JSSE.
  If an outbound HTTPS web service request specifies the use of JSSE, the request fails because Integration Server does not send the client certificates to the endpoint.
  This issue is now resolved.

- PIE-37071 (IS_9.0_SP1_Core_Fix13, IS_9.5_SP1_Core_Fix10, IS_9.6_Core_Fix9)
  Integration Server error log does not include the names of the affected JDBC pools in the error messages.
  When issuing error messages such as, "java.sql.SQLException: Could not get connection", Integration Server error log does not include the names of the JDBC pools to which the error message is referring.

This issue is resolved. Integration Server error log now includes the name of the JDBC pools in its error messages.

- PIE-37551 (IS_9.0_SP1_Core_Fix13, IS_9.5_SP1_Core_Fix10, IS_9.6_Core_Fix9)
Processing of webMethods messaging triggers fails with a java.lang.ClassCastException if the watt.server.trigger.local.checkTTL server configuration parameter is set to true.
Processing of webMethods messaging triggers fails with the following error if the watt.server.trigger.local.checkTTL server configuration parameter is set to true:
Unable to check document ttl: java.lang.ClassCastException: [B cannot be cast to com.wm.data.IData
This issue is now resolved.

- PIE-37645 (IS_9.0_SP1_Core_Fix13, IS_9.5_SP1_Core_Fix10, IS_9.6_Core_Fix9)
Incorrect logging level specified for error message.
Integration Server gives the logging level of the following error message of Trace logging level incorrectly as Info:
[ISC.0042.0001I] baseURL (Connection reset)
This issue is now resolved. The logging level of the message is corrected to Trace.

- PIE-38560 (IS_9.0_SP1_Core_Fix13, IS_9.5_SP1_Core_Fix10)
Integration Server logs a NullPointerException at one minute intervals.
Once per minute, the Integration Server scheduler uses a background thread to check for scheduled tasks in an invalid state. If Integration Server is in a cluster and the watt.server.scheduler.logical.hostname property is not set, a NullPointerException occurs and is written to the error log.
Now, the background thread used by the scheduler no longer throws a NullPointerException if Integration Server is in a cluster and the watt.server.scheduler.logical.hostname property is not set.

- PIE-35697 (IS_9.0_SP1_Core_Fix13)
After refreshing a consumer web service descriptor, response services reference the backup folders.
After refreshing a consumer web service descriptor, the response services contain references to the backup folders.
This issue is now resolved.

- PIE-37921 (IS_9.0_SP1_Core_Fix13)
The pub.client:http service does not include the supplied data in PUT requests.
When using the PUT method with the pub.client:http service, the request transmitted to the remote HTTP server does not include the value supplied for the data/args, data/string, data/table, data/bytes, data/stream or data/mimeStream input variables.
This issue is now resolved. When the PUT method is used with pub.client:http, the value of the data/args, data/string, data/table, data/bytes, data/stream or data/mimeStream input variables is now included as the HTTP entity of the transmitted request.

- PIE-37988 (IS_9.0_SP1_Core_Fix13)
A NullPointerException occurs when SoftwareAG-IS-Services.xml configuration file is not present in the caching directory.
When SoftwareAG-IS-Services.xml configuration file is not present in the directory location

<Integration Server_directory>\instances\<instance_name>\config\Caching, Integration Server throws a NullPointerException.

This issue is resolved. Integration Server now logs the following error message in the server logs to indicate that the configuration file is not present in the caching directory.

Cannot cache "{0}" service. The cache manager SoftwareAG.IS.Services is not initialized."

- PIE-38019 (IS_9.0_SP1_Core_Fix13)

Integration Server acting as an SFTP client faces issues while attempting to connect to an SFTP server.

When attempting to connect to an SFTP server, Integration Server acting as an SFTP client issues the following error:

[ISS.0147.9010] Cannot get host key from server [host_X]:22.

Details: com.jcraft.jsch.JSchException: Algorithm negotiation fail

This issue occurs because there is no common key exchange algorithm between the SFTP client and SFTP server.

This issue is now resolved by updating the jsch jar file from 0.1.51 version to 0.1.53 version. The 0.1.53 version supports most of the key exchange algorithms that are required to be present in the SFTP client to connect to SFTP server.

- PIE-38429 (IS_9.0_SP1_Core_Fix13)

Integration Server logs an exception when a service is invoked through a JSSE-enabled HTTPS port with client authentication set to "Username/Password" or "Request Client Certificates".

When a service is invoked through an HTTPS port that uses JSSE and has client authentication set to "Username/Password" or "Request Client Certificates", Integration Server logs the following exception in the error log:

javax.net.ssl.SSLPeerUnverifiedException: peer not authenticated.

The issue is now resolved. Integration Server does not log any exception upon invoking a service successfully through a JSSE-enabled HTTPS port with client authentication set to "Username/Password" or "Request Client Certificates".

- PIE-38599 (IS_9.0_SP1_Core_Fix13)

The pub.client:http service does not honor the value set for the useJSSE parameter.

The useJSSE parameter of the pub.client:http service indicates whether to enable the use of the Java Secure Socket Extension (JSSE) socket factory for creating outbound HTTPS connections. However, the pub.client:http service fails to consider the value set for the useJSSE parameter and does not use JSSE for SSL connection with proxy configuration even if the "useJSSE" parameter is set to yes.

This issue is now resolved. The pub.client:http service now honors the value set for the useJSSE parameter.

- If "useJSSE" is set to yes, Integration Server uses JSSE for HTTPS connection.
- If "useJSSE" is set to no, Integration Server uses Entrust IAIK library for HTTPS connection.

- PIE-39117 (IS_9.0_SP1_Core_Fix13)

Subsequent HTTPS requests through proxy to the server fail.

When you send repeated outbound HTTPS requests to a server using the pub.client:http service with useJSSE=yes and HTTPS proxy alias, the first request is sent successfully but the subsequent requests fail with exception.

The issue is now resolved.

- PIE-37937 (IS_9.5_SP1_Core_Fix10, IS_9.6_Core_Fix8)
Publishing a document as a JMS message from Designer fails with a NamingException.
Using Designer to publish an instance of an IS document type as a JMS message fails with a NamingException. This occurs because the pub.jms:send service, which is used by Designer to publish the JMS message, includes a new input parameter named JMSMessage/header/replyTo that Designer populates with an empty String. Integration Server attempts a JNDI lookup using the empty String, which results in the NamingException.
Now, Integration Server verifies that JMSMessage/header/replyTo parameter is not empty before performing the JNDI lookup.

- PIE-34925 (IS_9.5_SP1_Core_Fix10, IS_9.6_Core_Fix9)
When executing a web service connector, Integration Server does not check the Execute ACL of the parent consumer web service descriptor.
When executing a web service connector contained in a consumer web service descriptor that has a Pre-8.2 compatibility mode value of false, Integration Server did not check the Execute ACL of the consumer web service descriptor. The documented behavior is to always verify the Execute ACL for a web service descriptor, but it was not being done.
Now, when executing a web service connector, Integration Server checks the Execute ACL of the parent consumer web service descriptor.

- PIE-37804 (IS_9.5_SP1_Core_Fix10, IS_9.6_Core_Fix9)
Integration Server KPI that Optimize uses to display lifetime statistics displays current statistics instead.
The Integration Server KPI, getNumCompletedRequests, which Optimize uses to display the number of completed requests over the lifetime of the Integration Server, returns the number of requests in the last polling period instead.
This issue is now resolved.

- PIE-37586 (IS_9.5_SP1_Core_Fix10)
Integration Server deletes the parent task when all the servers in a cluster are shut down. When you schedule a task to run on all servers in a cluster, and when one server in the cluster is shut down, Integration Server deletes the corresponding child task. However, when all the servers in the cluster are shut down, Integration Server deletes all the child tasks as well as the parent task. As a result, the parent task information is lost upon restart of Integration Server.
This issue is resolved.

- PIE-38131 (IS_9.5_SP1_Core_Fix10)
Change to Integration Server to allow the pub.client:http service to return response headers and response entity when receiving a 501 to 599 level response from a remote HTTP server.
HTTP servers indicate success or failure by including a status code in the response. The pub.client:http service returns the status code, response headers, and response body. When the HTTP response includes a status code in the 501 to 599 range, the pub.client:http service throws a ServiceException. Some HTTP servers include useful information in the response headers and entity when returning a 501 to 599 level status code. However, this information is lost when

pub.client:http throws a ServiceException.

To address this issue, Integration Server now includes a server configuration parameter, watt.net.http501-599.throwException, which you can use to indicate how the pub.client:http service handles a 501 to 599 level response.

watt.net.http501-599.throwException

Specifies whether or not the pub.client:http service throws a ServiceException when receiving a 501 to 599 level response from a remote HTTP server. When set to true, the pub.client:http service throws a ServiceException when it receives a 501 to 599 level response from a remote HTTP server. When set to false, the pub.client:http service does not throw a ServiceException when it receives a 501 to 599 level response from a remote HTTP server. Instead, when the pub.client:http service returns a status code in the 501 to 599 range, the service returns the status code, response headers, and response body. The default is true. You do not need to restart Integration Server for changes to this parameter to take effect.

Note: When the remote HTTP server returns a response code of 500, the pub.client:http service returns the status code, response headers, and response body.

- PIE-38442 (IS_9.5_SP1_Core_Fix10)
  Integration Server does not handle an element with xsi:nil=1 correctly.
  If an IS document type used by the web service contains a field of type Object for which the Allow null property is set to true and the XML instance document contains a corresponding element with an xsi:nil=1 and an xmlns:xsi= attribute, Integration Server does not properly convert the element. Instead, Integration Server incorrectly converts the element to a Document field with no children instead of converting the element to a field of type Object with a "null" value.
  This issue can also occur when the pub.xml:xmlNodeToDocument service executes and all of the following are true:
  - The preserveUndeclaredNS input parameter is set to true
  - The IS document type in the documentTypeName field contains a field of type Object for which the Allow null property is set to true
  - The supplied node contains a corresponding element with an xsi:nil=1 and an xmlns:xsi=
  Now, Integration Server properly converts the xsi:nil=1 element to an field of type Object with a "null" value.

- PIE-36837 (IS_9.5_SP1_Core_Fix9, IS_9.6_Core_Fix8)
  Sessions are not being shared among Integration Servers in a cluster.
  When a dynamic server page (DSP) is requested by a client, a session is created in Integration Server and a Set-Cookie response header is returned with the session ID. If a subsequent request from the client includes the session ID but a different Integration Server in the cluster receives the request, the second server should find the session in the cluster's session store and then use the session to service the request. This was not happening. The first server did not save the session to the cluster's session store. As a result, the client's session was not available to the second server. This has been fixed. When a clustered Integration Server receives a request for a DSP, the server saves the session to the cluster's session store.

- PIE-36942 (IS_9.5_SP1_Core_Fix9, IS_9.6_Core_Fix8)
  Integration Server may become unresponsive when processing concurrent requests to disable file polling ports in different packages.

If Integration Server receives concurrent requests to disable a file polling port in a package and the ports are located in different packages, Integration Server may become unresponsive. Additionally, HTTP/S ports on Integration Server might become unavailable.
This issue is now resolved.

- PIE-37005 (IS_9.5_SP1_Core_Fix9, IS_9.6_Core_Fix8)
Enhancement to pub.jms:send service to allow specifying a destination for the JMSReplyTo header. Currently, if you want to specify the JMSReplyTo header for a JMS message that you are sending, you must use the pub.jms:sendAndWait service. The pub.jms:sendAndWait service sends a request message and waits for a response. The act of waiting for a response message comes with extra overhead for Integration Server which is unnecessary if you merely want to specify a JMSReplyTo destination but do not want the sending service to wait for a reply.
To address this issue, the pub.jms:send service has been enhanced to include a new input parameter for setting the JMSReplyTo header. When invoking the pub.jms:send service, you can set the JMSMessage/header/replyTo field which is an optional parameter of type String. Set this parameter to one of the following:
- If the JMS connection alias used by the pub.jms:send service connects to the JMS provider using JNDI, set JMSMessage/header/replyTo to be the lookup name of the destination lookup object name.
 If the JMS connection alias used by the pub.jms:send service connects to the JMS provider using a native Broker connection, set JMSMessage/header/replyTo to the Broker queue name. That is, if the JMS connection alias specifies the Broker as the JMS provider and uses the native webMethods API to connect directly to the webMethods Broker, specify the name of the queue on the Broker that should receive replies to the message.
Note: When using the native webMethods API to connect to the Broker, the JMSMessage/header/replyTo destination must be a queue. Topics are not supported.
When executing the pub.jms:send service with a valid value for the JMSMessage/header/replyTo parameter, Integration Server creates the javax.jms.Destination and maps it to the JMSReplyTo field within the message header. Integration Server sends the message and returns immediately. The service does not wait for the response message.
If JMSMessage/header/replyTo is empty, then Integration Server does not set the JMSReplyTo header for the JMS message. If JMSMessage/header/replyTo is invalid, then Integration Server throws a ServiceException.

- PIE-37261 (IS_9.5_SP1_Core_Fix9, IS_9.6_Core_Fix8)
Integration Server logs the message "[B cannot be cast to com.wm.util.Values" in server.log file".
If the ServiceResults cache has the Copy on Read and Copy on Write check boxes selected and the number of entries in the cache exceeds the value specified for Maximum Elements in Memory, Integration Server logs the following error message to the server log: [B cannot be cast to com.wm.util.Values
This issue is now resolved.

- PIE-37126 (IS_9.5_SP1_Core_Fix9, IS_9.6_Core_Fix9)
In the Integration Server Administrator page, the Routing option under Adapters is not available in some cases.
After a successful installation of the OnRamp for Commerce One Marketplace Adapter, the Routing

option under Adapters in the Integration Server Administrator page is not available. The Integration Server console is unable to add this option in the Integration Server Administrators page because an incorrect configuration in the Server Log Facilities page results in a failure in the initialization process for the adapter.

This issue is resolved. The Routing option is now available under the Adapters section in the Integration Server Administrator page.

- PIE-35036 (IS_9.6_Core_Fix8, IS_9.7_Core_Fix5)
  Integration Server does not reflect the changes made to the Create Temporary Queue option after the JMS connection alias is created.
  If the Create Temporary Queue option is selected while creating a JMS connection alias and if this selection is cleared later, Integration Server does not reflect this change. The setting of the Create Temporary Queue option that was chosen while creating a JMS connection alias is maintained.
  This issue is resolved. Integration Server now reflects the changes made to the Create Temporary Queue option after the JMS connection alias is created.

- PIE-37419 (IS_9.6_Core_Fix9)
  File polling consumed server threads that were not terminated at the end of file polling process.
  The thread leak related to file polling ports is now resolved.

- PIE-37581 (IS_9.6_Core_Fix9)
  Integration Server erroneously logs a message about the connection pool threshold being exceeded.
  Integration Server erroneously writes the following message to the server log:
  [ISS.0096.0008I] JDBC Connection pool threshold exceeded, 0 available for pool CentralUsers:CentralUsersPool
  This issue is now resolved.

- PIE-37893 (IS_9.6_Core_Fix9)
  The FTP command PWD returns incorrect structure in certain situations
  The FTP command PWD sometimes returns an incorrect directory path .
  The PWD command now returns a valid directory path.

- PIE-37268 (IS_9.6_Core_Fix9)
  When JSSE is enabled for outbound HTTP connections from Integration Server, watt.security.ssl.client.ignoreEmptyAuthoritiesList does not work as expected.
  When JSSE is enabled for outbound HTTP connections, Integration Server client accepts empty trusted authorities lists from the SSL server but does not return its CA certificate even if the watt.security.ssl.client.ignoreEmptyAuthoritiesList is set to true.
  This issue is resolved. Now, when JSSE is enabled for outbound HTTP connections, Integration Server client accepts empty trusted authorities lists from the SSL server and returns its CA certificate if the watt.security.ssl.client.ignoreEmptyAuthoritiesList property is set to true.

- PIE-36514
  Integration Server creates an exception when you invoke a flow service exposed as a web service.
  Integration Server creates the following exception when you try to invoke a flow service exposed as a web service:
  ServiceException: Fault returned by invoked service.

This exception which is created in the stack before the service is executed is not logged in the Integration Server log but, monitoring tools like Dynatrace might interpret the exception as an error even though the service is successfully executed.
This issue is resolved.

▪ PIE-37042
When invoking the pub.client:http service with the useJSSE input parameter set to yes, a java.lang.ClassCastException error occurs if the server configuration parameter, watt.security.ssl.keypurposeverification is set to true.
This issue is resolved.

▪ PIE-37056
When the pub.client:http service sends an HTTPS request, the SSL handshake process fails when the useJSSE parameter is set to yes.
When the pub.client:http service sends an HTTPS request and the useJSSE input parameter is set to yes, during the SSL handshake process Integration Server sends its certificate even though no matching CA certificate from the other endpoint server is found in the Certificate Authorities list for the SSL handshake.
This issue is resolved. Integration Server now sends its CA certificate during the SSL handshake process only if a matching CA certificate is available from the other endpoint server.

▪ PIE-37178
The watt.server.compile parameter is not set correctly if Integration Server instance is created through migration utility.
When running the migration utility, selecting the option to create an Integration Server instance during migration results in an incorrect value for the watt.server.compile server configuration parameter, specifically: ${javac.exe} -classpath {0} -d {1} {2}
Now, the migration utility substitutes the value of ${javac.exe} to point to javac executable located in the JDK shipped with Integration Server.

▪ PIE-37308
At start up, Integration Server logs a warning message about audit logging even though no audit loggers are configured.
At start up, Integration Server attempts to determine if there are sufficient JDBC connections in the JDBC connection pool even when audit loggers are not configured. If there are no connections, Integration Server logs the following message, which is erroneous if there are no configured audit loggers:
[ISS.0095.0022W] Audit Logging Initialization: Unable to verify the Max Connections setting for the Audit Logging database.
Now, Integration Server does not check for JDBC connections at start up if there are no configured audit loggers.

▪ PIE-37377
Update of scheduled tasks to use UTC fails.
At startup, if Integration Server updates scheduled tasks to use UTC (Coordinated Universal Time) instead of local time, Integration Server writes the following message to the server.log:

[ISS.0137.0035E] Migration of scheduled tasks to UTC timezone failed

When Integration Server updates the tasks to UTC, Integration Server also validates the tasks, which, for a task scheduled to run on another Integration Server in a cluster, includes checking that the Integration Server is a member of the cluster. If the Integration Server is not in the cluster, task validation fails and the task timestamp is not updated to UTC. However, Integration Server incorrectly considers that the task that failed validation is now in UTC when, in fact, the task is still in local time.

Now, the migration utility no longer validates the scheduled task during migration. Consequently, a validation failure does not prevent the migration utility from updating the scheduled tasks.

▪ PIE-37457

A webMethods messaging request-reply fails when the encoding type of the reply document type is protocol buffers.

When encoding the reply message, Integration Server uses the encoding type specified for the publishable document type used as the reply. However, reply messages are sent to a dedicated reply-to channel on Universal Messaging. The channel is generic and is not associated with any specific document type. To receive a protocol buffer encoded message, a channel must be associated with a specific document type. Because the channel is generic, a reply message encoded as a protocol buffers cannot be processed.

To address this issue, Integration Server now always encodes reply message as IData.

▪ PIE-37560

Upgrade does not include layered products if the destination Integration Server does not have an instance with the same name as the source Integration Server.

When upgrading to an Integration Server instances that does not have the same name as the source Integration Server instance, upgrade does not include layered products such as webMethods Mediator and webMethods Monitor.

This issue is now resolved. Upgrade always includes layered products, regardless of whether or not the destination Integration Server instance is the same as the source Integration Server instance.

▪ PIE-37825

When the logging level is set to Trace, upon invoking the pub.client:http service, Integration Server logs an entry for the HTTP Get method in the server log irrespective of the HTTP request type.

This issue is resolved. Upon invoking the pub.client:http service, Integration Server now logs entries according to the HTTP request type.\

▪ PIE-37844

After a database outage, Integration Server can run out of threads.

When Integration Server cannot connect to the audit logging database, either due a problem in the database or a problem in the network, all threads requesting database connections can pause indefinitely. If this situation persists, all threads in the server thread pool will be paused. No new requests will be accepted.

This issue has been fixed. A point of thread contention in the JDBC pool implementation was removed. Threads requesting database connections after a database outage no longer experience lengthy pauses.

- PIE-36702 (IS_9.8_SPM_Fix1)
  Command Central cannot be used to set the all the JDBC connection pool alias properties.
  When using Command Central to create or edit a JDBC connection pool, the Available Connections Warning Threshold and Waiting Thread Threshold Count properties cannot be specified.
  The Available Connections Warning Threshold and Waiting Thread Threshold Count properties can now be set through Command Central.

- PIE-34577
  Integration Server does not validate a certificate that uses the SHA-256 algorithm but should.
  The certificate chain verifier in Integration Server validates the certificates presented by SSL clients. The certificate chain verifier does not validate a certificate chain that uses the SHA-256 algorithm but should. Instead Integration Server throws the following error:
  [ISC.0009.9002] Error in certificate chain: Entrust cannot verify the certificate chain: [ISC.0009.9002] Error in certificate chain
  The certificate chain verifier in Integration Server now validates a certificate chain that uses the SHA-256 algorithm.

- PIE-35422
  The jcode utility fails with a MalformedPatternException on Linux.
  Execution of jcode.sh on Linux fails with the following error: Exception in thread "main" java.lang.NoClassDefFoundError: org/apache/oro/text/regex/MalformedPatternException
  The exception occurs because one of the required jar files in common/lib/ext is missing from the jcode utility classpath.
  The jcode.sh file is now updated to include the required jars in the classpath. This issue is now resolved.

- PIE-35643
  After upgrading to version 9.7, when a webMethods messaging trigger, which has join conditions that are dependent on two or more documents, does not start because Integration Server cannot locate the publishable document types, Integration Server does not reload and start the trigger when the publishable document types are later loaded.
  Integration Server does not start a webMethods messaging trigger, which has join conditions that are dependent on two or more publishable document types, if it cannot find the document types specified in the join condition. However, Integration Server issues a PDT_DOES_NOT_EXIST (InvalidDocumentException) exception stating the reason the trigger did not fully load and when Integration Server loads the package containing the publishable document types to which the trigger subscribes, Integration Server reloads the trigger. But, after upgrading to version 9.7, instead of the PDT_DOES_NOT_EXIST exception, Integration Server returns an INVALID (ServiceException) exception incorrectly. As a result, Integration Server fails to reload and start the trigger when the publishable document types are later loaded.
  This issue is resolved. Integration Server now returns the PDT_DOES_NOT_EXIST exception correctly if it cannot find the document types specified in the join condition. In addition, when Integration Server loads the package containing the publishable document types specified in the join condition, Integration Server reloads the trigger.

- PIE-35716

If the database associated with Integration Server is restarted abruptly, service invocations or database calls made through JDBC connection pool alias fail and do not return any records from the database.

When the database associated with Integration Server is restarted abruptly, Integration Server does not close and release the existing JDBC connections that are stale due to the abrupt database shutdown and fails to return these connections to the JDBC connection pool. As a result, service invocations or database calls made through the JDBC connection pool alias fail and do not return any records from the database.

The issue is now resolved.

▪ PIE-35907
After migrating to Integration Server 9.5 or later, Integration Server displays an exception when calling a web service and using MTOM streaming.
After migrating 2 to Integration Server 9.5 or later, sending a web service request that uses MTOM streaming for which more than one chunk is sent, the following exception occurs:
"Exception --> org.apache.axis2.AxisFault: Connection reset by peer: socket write error"
This issue is now resolved.

▪ PIE-36224
When installed on Unix or Linux, scripts located in IntegrationServer/instances/<instanceName>/packages/<packageName> directory, such as IntegrationServer/instances/myInstance/packages/WmDeployer, do not have permission to execute.
This issue is now resolved.

▪ PIE-36288
Executing the jcode.bat/sh utility removes the name of the output template assigned to a service.
Running the jcode.bat/sh utility removes the value of the Output template Name property for services in the package containing the Java service.
This issue is now resolved.

▪ PIE-36399
Using pub.schema:createXSD to create an XML Schema definition for a document type ends with a NullPointerException.
Using the pub.schema:createXSD service to create an XML Schema definition for a document type ends with a NullPointerException if the document type contains a field named *body.
This issue is now resolved.

▪ PIE-36644
Memory leak with JMS request-reply.
Integration Server did not correctly close MessageProducer objects when invoking the pub.jms:reply service, resulting in a memory leak.
This issue is now fixed.

▪ PIE-36824
Users that are members of the Developers group cannot use Designer to build and upload processes.
When a user that belongs to the Developers group uses Designer to build and upload a process,

Designer throws the following exception:

Error: Build of process <processName> failed.
com.webmethods.process.connection.is.IntegrationServerConnectionException: [ISC.0064.9314]
Authorization Required: [ISS.0084.9004] Access Denied

at
com.webmethods.process.generator.util.GeneratorUtils.getJMSProviderData(GeneratorUtils.java:93
4)

at
com.webmethods.process.generator.util.GeneratorUtils.createJNDIDestinations(GeneratorUtils.java
:718)

This issue is now resolved. Members of the Developers group can now use Designer to build and
upload processes.

- PIE-36962
Integration Server fails to enable email ports configured to use transport layer security.
Upon creating an email port configured to use transport layer security, Integration Server fails to
enable the email port and issues the following error message:
Unsupported ciphersuite SSL_DH_DSS_WITH_3DES_EDE_CBC_SHA
This issue is resolved.

- PIE-36990
Duplicate port aliases are assigned during upgrade.
When upgrading Integration Server 9.5 or earlier to version 9.6 or later, Integration Server might
assign the same port alias to multiple Internal Server ports. Upon startup of Integration Server, this
may result in only one of the Internal Server ports becoming active and in the following warning:
[ISS.0070.30] yyyy-mm-dd hh:mm:ss zone WARN: Duplicate alias
protocolListener_portNumber_packageName encountered creating protocol listener on port
portNumber.
This occurs because the naming convention used to assign a port alias to an existing port creates a
duplicate alias if more than one Internal Server ports connect to an Enterprise Gateway Server
through the same Registration port.
Now, to ensure that each port alias is unique, Integration Server includes the host name for the port
in the port alias for migrated ports. The new naming convention is:
protocolListener_portNumber _hostName_packageName

- PIE-37004
Integration Server reloads packages more than once in a run-time-based deployment.
When there are dependencies across different Integration Server packages in a run-time-based
deployment, Integration Server reloads these packages more than once.
Now, Integration Server reloads the packages just once.

- PIE-37041
While converting an XML node to a document, Integration Server does not issue any validation
errors upon receiving empty fields that are not included in the enumeration list.
When converting an XML node to a document that contains fields with *body attributes, the text
specified in *body represents the values of the document fields. These elements can have valid

values specified in the enumeration fields. However, while converting, if Integration Server receives an empty value for a field and if the empty value is not included in the enumeration list, Integration Server should issue a validation error, but does not.

This issue is resolved. Integration Server now issues the following validation error upon receiving an empty field that is not included in the enumeration list:

No matching enumeration value."

- PIE-37142

  On Windows, the script for creating a new instance of Integration Server does not use the JVM bundled with the product installation.

  The script for creating an Integration Server instance now uses the JVM bundled with the Integration Server product installation.

- PIE-37159

  Users can log in to Integration Server with old and new passwords.

  When central user management is configured for Integration Server and an authentication cache is enabled for Integration Server, users can log in with an old password even after successfully log in with the new password. This occurs because Integration Server does not remove the cached entry with the old password until after the time specified in watt.server.auth.cache.timeout elapses.

  Now, once a user logs in with a new password, Integration Server clears the cached password.

- PIE-37166

  Web browser users are not forced to supply credentials after their session expires.

  When Integration Server receives a request that includes a cookie that identifies a session and valid user credentials, Integration Server will do one of two things:

  - If the session identified by the cookie is valid, Integration Server will use the existing session for the request.

  - If the session identified by the cookie has expired, or is otherwise invalid, Integration Server will use the supplied credentials to authenticate the client and create a new session for the request.

  Modern web browsers cache user credentials and send them to servers with each request. For Integration Server Administrator users, this means a user's session may expire but because the browser sends the user's credentials every time, a new session is created. The user may continue to use Integration Server Administrator without re-entering their user name and password. The only way to force the re-entry of a user's credentials is to close the browser. This may be considered a security flaw.

  Integration Server addresses this situation by adding a new configuration parameter: watt.security.session.forceReauthOnExpiration. When set to true, Integration Server rejects any request that includes a cookie identifying an expired or invalid session, even if the request includes valid user credentials. The rejection response directs the browser to clear its session identifier and to prompt the user for credentials. When set to false, Integration Server creates a new session using the credentials in the cookie. The default value for watt.security.session.forceReauthOnExpiration is false. A value of true offers more secure behavior. Changes to watt.security.session.forceReauthOnExpiration take effect immediately.

- PIE-37211

  The pub.flow:getLastError service does not return a lastError document.

The pub.flow:getLastError service does not return a lastError document if a parent SEQUENCE step specifies a timeout value but a service called by an INVOKE step within the SEQUENCE causes the SEQUENCE to time out.

This issue is now resolved.

- PIE-37222

A signed XML document or a node in an XML document fails verification performed by the pub.security.xml:verifyXML service.

If the pub.security.xml:signXML service signs an XML document or a node in an XML document and the service input specifies "true" for the includeCertChain parameter or a value other than the default value "X509_CERTIFICATE" for the certData parameter, the resulting signed document fails verification performed by the pub.security.xml:verifyXML service.

This issue is resolved.

- PIE-37276

After migrating a consumer web service descriptor that uses Web Services Addressing (WS-Addressing) from Integration Server 8.2 to a later release, invoking a web service connector in the descriptor ends with SocketTimeoutException.

If a consumer web service descriptor was created from a WSDL document that declared both the Web Services Addressing namespace as defined in the World Wide Web Consortium (W3C) Recommendation and the namespace from the earlier W3C Submission, after migration from Integration Server 8.2, execution of a web service connector fails with the following: java.net.SocketTimeoutException: Read timed out

The timeout occurs because Integration Server incorrectly uses the WS-Addressing namespace from the earlier W3C Submission of WS-Addressing when executing the web service connector. As a result, the web service provider does not respond in the expected manner which causes the request to time out.

Now, if a web service descriptor that uses WS-Addressing was created from a WSDL that declared namespace declarations for the WS-Address Recommendation and the Submission, Integration Server uses the namespace declarations defined in the Recommendation.

- PIE-37473

Package deployment fails when the package contains a document type.

Using Deployer to deploy a package that contains a publishable document type fails with the following error:

[DEP.0005.0326] An error occurred while deploying package "packageName". Item "documentTypeName" could not be loaded because of reason "[ISS.0026.9112] Document type documentTypeName has failed to load. Duplicate Broker document type name brokerDocumentTypName is also referenced by documentTypeName". The package may have partially loaded; please check your target server.

This issue is now resolved.

- PIE-37508

Integration Server logs an erroneous exception when executing web services without an outbound callback service.

When executing web service that is part of a provider web service descriptor for which an

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outbound callback service is not specified, Integration Server sometimes writes the following erroneous message to the error log:

ISC.0088.9998E Exception --> null.

This issue is now resolved. Integration Server no longer logs an exception when executing a web service that is part of a web service descriptor that does not specify an outbound callback service.

- PIE-37589

XSLT services experience intermittent XSLT transformation errors or exhibit slow transformation performance.

This fix addresses both issues.

- PIE-37790

Enhancement to use Universal Messaging for audit logging queues.

In asynchronous audit logging, Integration Server first writes a log entry to a queue and subsequently writes the log entry from the queue to the log destination. Previously, Integration Server provided only an internal queue, sometimes called the light-weight queue, to use as an audit logging queue. With this enhancement, Integration Server provides the option of using a Universal Messaging queue instead of the internal queue as the audit logging queue. Using Universal Messaging with audit logging offers increased performance for asynchronous and synchronous logging.

- PIE-37834

When using the jcode utility to compile Java services, Integration Server generates wrong jcode utility classpath.

When using the jcode utility to compile Java services, Integration Server generates wrong jcode utility classpath if the code or classes directory added to the classpath does not include path separator.

This issue is now resolved.

- PIE-37977

A web service connector throws a SOAPException about an invalid envelope.

When executing a web service connector for an InOnly or InOnlyRobust operation for which the parent consumer web service descriptor has the Pre-8.2 compatibility mode property set to true, Integration Server may log the following extraneous error message indicating an invalid SOAP Envelope has been received even though the connector executed successfully.

[ISS.0088.9155] this SOAPMessage does not contain a valid Envelope object

This fix eliminates the extraneous error message.

- PIE-38099

A trigger with an AND join fails when receiving messages concurrently across a cluster of Integration Servers or a non-clustered group of Integration Servers.

When a JMS trigger or a webMethods messaging trigger with an AND join receives messages at the same time on two different Integration Servers, one of the messages might be lost. The lost message will not be processed which prevents the AND join from being satisfied and causes the trigger to fail. This situation occurs when the trigger resides on Integration Servers in a cluster or on a group of non-clustered Integration Servers.

This issue is now resolved.

- **PIE-38134**
Enhancement to provide the ability to configure the allowed protocols for JSSE on a per port basis.
In Integration Server, the watt.net.jsse.server.enabledProtocols server configuration parameter specifies the allowed protocols for all JSSE ports. However, there might be times where you wish to allow specific protocols for use with a particular JSSE port only. Integration Server now provides the ability to specify the allowed protocols for JSSE on a per port basis.
Note: The 'jsseEnabledProtocols' value specified for the port record in the listeners.cnf file overrides the value set by watt.net.jsse.server.enabledProtocols server configuration parameter.
Note: When the logging facility 0006 Server SSL Interface is set to the Debug logging level, Integration Server writes messages about protocols used for inbound and outbound ports to the server log. At the Trace logging level, Integration Server writes messages about the enabled cipher suites. You can use these server log messages to confirm the enabled protocols for any JSSE port.

- **PIE-38158**
The pub.utils.messaging:migrateDocTypesTriggersToUM service incorrectly returns a message indicating a filter was successfully converted.
When the pub.utils.messaging:migrateDocTypesTriggersToUM service cannot convert a filter for a webMethods messaging trigger because of a filter conversion error, the service returns the error message in the failedTriggers/reason parameter. However, the service also returns a message stating that the filter was successfully converted, which is not correct.
If a filter cannot be converted successfully, the pub.utils.messaging:migrateDocTypesTriggersToUM no longer returns a message about successful conversion of the filter.

- **PIE-38244**
Web service fails with a RampartException while handling a holder-of-key SAML assertion.
When handling a holder-of-key SAML assertion, a web service fails with the following exception:
RampartException: Invalid signature algorithm for Asymmetric binding.
This issue is now resolved.

- **PIE-38300**
A concurrent JMS trigger makes a retry attempt after Integration Server suspends the trigger because of a transient error.
When a concurrent JMS trigger encounters a transient error when processing a message, the trigger makes an extra retry attempt after the trigger is suspended. For example, if Max retry attempts is 3, Integration Server suspends the trigger after the third retry attempt fails. However, the trigger makes a fourth retry attempt.
This issue is resolved. When Integration Server suspends a concurrent JMS trigger because of a transient error, the trigger does not make an additional retry attempt.

- **PIE-38391**
In a clustered environment, Integration Server sometimes does not create child tasks when a new server is added to the cluster or when an existing server is restarted.
When a task is scheduled to run on all servers in a clustered environment, Integration Server

creates a parent task and a child task for each server in the cluster. When a new server is added to the cluster or when an existing server in the cluster is restarted, Integration Server creates a corresponding child task upon server restart. However, Integration Server sometimes does not create the child task for the newly added server or for the server that was restarted. As a result, the complete information for all servers in the cluster is not available on the Scheduler screen.
This issue is resolved.

- PIE-38404
Integration Server resumes document retrieval and/or processing for webMethods messaging triggers after package reload or server restart even when the Apply Change Permanently option was selected.
When using the Integration Server Administrator or the built-in services for suspending document retrieval and/or processing for a webMethods messaging trigger that receives documents from Universal Messaging, Integration Server does not honor the value of the Apply Change Permanently check box. When selected, the Apply Change Permanently check box indicates that Integration Server persists the change in document retrieval or document processing across package reloads and server restart. However, Integration Server reverts the state and enables retrieval and/or processing of documents when Integration Server restarts or when a package is reloaded.
This issue is resolved.

- PIE-38473
While creating an Enterprise Gateway Server port that uses the HTTPS protocol, the 'Use JSSE' option is not available in the Edit Enterprise Gateway Server Configuration screen in Integration Server Administrator.
This issue is resolved. The 'Use JSSE' option is now available in the Edit Enterprise Gateway Server Configuration screen while creating an Enterprise Gateway Server port that uses the HTTPS protocol.

- PIE-38526
When creating an Internal Server port that uses the HTTPS protocol, the "Use JSSE" option is not available in the Edit Internal Server Configuration screen in Integration Server Administrator.
This issue is resolved. The Edit Internal Server Configuration screen now includes the "Use JSSE" option when the selected protocol is HTTPS.

- PIE-38530
An HTTPS port that uses JSSE fails to start when a keystore is specified.
If Use JSSE is set to Yes for an HTTPS port and the key alias password is different from the password used for the keystore, the port does not start.
This issue is now resolved.

- PIE-38536
The pub.client:smtp service completes successfully even though the service finishes with errors.
Improper exception handling allowed the pub.client:smtp service to execute successfully even though the service encountered errors. This could lead to missing MIME parts in the email sent by the service.

Now, the pub.client:smtp service includes proper exception handling, which prevents successful completion of the service when the service encounters errors.

- PIE-38557
  When entering quiesce mode, Integration Server writes messages to the client-side queue because Integration Server disables connection aliases before disabling packages.
  When Integration Server enters quiesce mode, Integration Server disables the webMethods messaging connection aliases and JMS connection aliases before disabling packages. As a result, services that publish messages might execute after the needed connection alias is disabled, causing messages to be written to the client-side queue.
  Now, when entering quiesce mode, Integration Server disables packages before disabling connection aliases. This will prevent new messages from being written to the client-side queue as Integration Server enters quiesce mode.

- PIE-38660
  The jcode utility does not scan the jar files present in the static folders of the packages.
  The jar files present in the static folders of the packages (package's code\jars\static folders) were not being scanned and added to the classpath by the jcode utility.
  This issue is resolved.

- PIE-38881
  When migrating from Integration Sever 8.2 or later to a newer version of Integration Server, the migration utility overwrites server configuration parameter values set during an earlier migration.
  If you migrated Integration Server from version 7.x to version 8.2 or later and the later version introduces new behavior for existing functionality, the migration utility prompts you to choose the new behavior or the existing behavior and then sets a server configuration parameter in the server.cnf accordingly. When you migrate Integration Server from 8.2 or later to a newer version of Integration Server, the migration utility prompts to use the new or existing behavior for existing functionality that was changed in the new version. However, the Integration Server migration utility incorrectly overwrites some of the settings that were already set during earlier migrations. This issue is now resolved. Integration Server migration utility retains previously selected behavior and sets server configuration parameters for behavior introduced in the new version only.

- PIE-38921
  Setting the watt.server.db.connectionCache server configuration parameter to server increases the number of database connections.
  Setting the watt.server.db.connectionCache server configuration parameter to server tells Integration Server to maintain a pool of connections for each database. However, when a connection became stale, a new connection was getting created without the stale connection getting closed. This increased the number of connections even though the pool reached its maximum number of connections.
  This issue is resolved. Integration Server now closes all the stale connections before creating new connections.

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.11

- *webMethods Integration Server Administrator's Guide* now has content tailored to the new Integration Server Administrator, which is also the default interface. However, for users familiar with the legacy interface, the chapter titled "Using Integration Server Administrator" describes how to access the legacy interface and summarizes the naming and navigation changes in the new Integration Server Administrator.

- The chapter titled "Introduction to the New webMethods Integration Server Administrator" is removed from *webMethods Integration Server Administrator's Guide* and the content from this chapter is reused in the existing chapter titled "Using Integration Server Administrator" to present the redesigned Integration Server Administrator as the default administrator interface.

- All UDDI related content has been removed from *Web Services Developer's Guide* as UDDI support has been removed.

Release 10.7

- The *webMethods Integration Server Administrator's Guide* contains a new chapter titled "Introduction to the New webMethods Integration Server Administrator".

- The *webMethods Integration Server Built-In Services Reference* contains a new chapter titled "Alert Folder".

- The "Using Command Central to Manage Integration Server" chapter in the *webMethods Integration Server Administrator's Guide* has the following changes.

    - "An Overview of Command Central" topic has been added.

    - Deleted topics:
        - Monitoring JMS Triggers Using the Integration Server Instance
        - Searching for JMS Triggers Using Integration Server Instance
        - Enabling, Disabling and Suspending a JMS Trigger
        - Monitoring Global Controls for JMS Triggers
        - Associating Connection Pools with Functional Aliases
        - Managing Integration Server Groups
        - Managing Scheduled User Tasks
        - Managing ACLs

- The *webMethods Integration Agent Administrator's Guide* is no longer delivered with the webMethods Microservice Runtime and webMethods Integration Server documentation sets as webMethods Integration Agent is no longer available beginning with the 10.7 release. Microservices Runtime can be used in place of Integration Agent.

- The *REST Developer's Guide* is no longer delivered with the webMethods Integration Server documentation set as the contents of the guide are now available in the *webMethods Service Development Help*.

- A new topic, "Setting Two-Way SSL Communication" is added to the guide *Configuring On-Premise Integration Servers for webMethods Cloud*.

- Descriptions of the server configuration parameters watt.server.jca.connectionPool.threadInterrupt.waitTime and watt.server.jca.connectionPool.threadInterrupter.sleepTime have been removed from the *webMethods Integration Server Administrator's Guide* because they are covered in the *webMethods Adapter Runtime User's Guide.* The description of the watt.server.jca.connectionPool.createConnection.interrupt.waitTime parameter has been removed from the *webMethods Integration Server Administrator's Guide* because the parameter is obsolete, having been replaced by watt.server.jca.connectionPool.threadInterrupt.waitTime and watt.server.jca.connectionPool.threadInterrupter.sleepTime parameters.

Release 10.5

- MQTT feature documentation has been added to the following guides in the Integration Server documentation set: *webMethods Integration Server Administrator's Guide* includes the new chapters "Configuring Integration Server for MQTT Messaging" and "Managing MQTT Triggers"; *webMethods Service Development Help* includes the new chapter "Working with MQTT Triggers". The *webMethods Integration Server Built-In Services Reference* contains the new chapter "MQTT folder".

- The *webMethods Integration Server Administrator's Guide* contains a new chapter titled "Setting Up SSL Session Logging".

- The *webMethods Integration Server Administrator's Guide* contains a new chapter titled "Configuring Integration Server for HTTP Compression".

- The "Configuring Integration Server to Work with Servers Running HTTP 1.0 and Above" section has been removed from the *webMethods Integration Server Administrator's Guide*.

- The pub.xml:getXMLNodeIterator service description now includes information about how the NodeIterator traverses nodes when using search criteria.

Release 10.4

- The *Configuring the VCS Integration Feature* guide is no longer available, and the chapter entitled

"Using the VCS Integration Feature to Check Elements in and Out of a VCS" is no longer part of the *webMethods Service Development Help*. The guide and related chapter explained how to use the functionality delivered in the WmVCS package to integrate Integration Server elements with a version control system. However, the WmVCS package is no longer delivered with Integration Server.

Release 10.3

- Information about configuring the Universal Messaging client log has been moved from the *webMethods Audit Logging Guide* to the *webMethods Integration Server Administrator's Guide*.

Release 10.2

- The *Developing Microservices with webMethods Microservices Container* guide has been renamed *Developing Microservices with webMethods Microservices Runtime* to reflect the product name change from webMethods Microservices Container to webMethods Microservices Runtime.

Release 10.3

- The *webMethods Integration Server Clustering Guide* has been updated to include information about stateless clustering.

Release 10.1

- The *Web Applications Developer's Guide* is no longer available. This guide explained how to use the WmTomcat package to incorporate web applications into the Integration Server environment. As of Integration Server 10.1, the WmTomcat package has been removed from the product.

7.0   Terminology Changes

A release is listed in this section only if changes occurred in that release.

Release 10.3

Old Term	New Term
Named object	Durable subscription or durable.
	As of Universal Messaging version 10.2, the term *named object* has been replaced with *durable subscription* or its abbreviated form *durable*.
	A serial webMethods messaging trigger corresponds to a serial durable subscription (or the abbreviated serial durable) on Universal Messaging. A concurrent webMethods messaging trigger corresponds to a shared durable subscription (or the abbreviated shared durable) on Universal Messaging.

Release 10.2

Old Term	New Term
webMethods Microservices Container	webMethods Microservices Runtime

8.0   Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 10.11

Added Item	Description
Support for OpenAPI- based consumer REST API descriptors.	Integration Server supports creating a consumer REST API descriptor using an OpenAPI document that conforms to the OpenAPI specification 3.0.x.
gRPC support	Integration Server can receive and process messages for methods defined in a gRPC service definition. This support is provided by a gRPC server embedded within Integration Server and by Designer functionality that consumes a proto file describing one or more gRPC service definitions and generates the Integration Server artifacts that will be used to implement the logic of the gRPC methods. Integration Server supports unary methods only.

Added Item	Description
Azul JDK 11.	Integration Server now ships with Azul JDK 11.
Dashboard configuration	The Dashboard in the new Integration Server Administrator has configuration options that control the resources used to gather, index, and save metrics that the Dashboard displays.
Server Threads row on Statistics page	The Server > Statistics page now includes a row for server thread usage, including the current threads and the maximum threads allowed for the server thread pool.
Path Based routing support in Integration Server Administrator	Path-based routing from products such as NGINX and Kubernetes ingresses can now be mapped to the new Integration Server Administrator at /WmADMIN.
Metering simulator	Integration Server now includes a metering simulator that, when enabled, will generate server log messages that let you see the transaction usage that will be sent to the metering server if all the metering criteria is met.
Docker image for Microservices runtime can exclude web services functionality.	The is_container script for building a Docker image now includes an optional argument. -Dexclude.components to exclude the web services functionality while building a Docker image for Microservices Runtime.
Additional alert channels in Integration Server	Integration Server now includes the following additional alert channels: Metering Log, User Management and Master Password.
Dismiss notifications	A notification on Integration Server Administrator now displays the "Dismiss this notification" button on hover. Dismissing a notification marks it as read.

Added Item	Description
Ignore or report notifications	A notification on Integration Server Administrator now displays the "Ignore such notifications" button on hover. Ignoring a notification clears all such notifications from the list and does not display such notifications in the future.
	The 'Additional actions' menu provides access to 'Ignored notifications' where a 'Status' toggle is provided to switch between 'Ignore' and 'Report' for each notification type. Toggling the status to 'Report' lets you subscribe to an ignored notification type.
	'Report all notification types' is provided to subscribe to all notification types.
The "isquiescesettings" asset type is added to the Integration Server administrative assets.	The asset type along with the substitution values are listed in the ACDL that Deployer uses to deploy the quiesce settings from source to target servers.
Ability to disable server activities for quiesce mode.	The quiesce mode configuration has been updated to specify that certain Integration Server tasks can be disabled while in quiesce mode. This includes the following tasks: audit logging, alerts and notifications, statistics data collector, and system tasks that interact with a database.
SECRET_PATH environment variable	Specifies the path to a Kubernetes Secret inside a container. Passing the SECRET_PATH ENV variable with the docker run command allows sensitive data stored in a Kubernetes Secret to be referenced from a configuration variables template.
Proof Key for Code Exchange (PKCE) for OAuth	The OAuth implementation in Integration Server now supports Proof Key for Code Exchange (PKCE) at the server level. If PKCE is required for OAuth clients when Integration Server is the authorization server, public OAuth clients must provide additional inputs when using the authorization code grant type.
application/merge-patch+json media type for PATCH	The Administrator API now supports the application/merge-patch+json media type for PATCH operations.

Added Item	Description
Event lifecycle logging	Event lifecycle logging, also called trace logging, uses a trace logger to create detailed logs describing the flow of a message (event) as its published by a Universal Messaging client, routed through Universal Messaging, and as its received by the subscribing Universal Messaging client. You can configure the UM client in Integration Server to perform event lifecycle logging.

Removed Item	Replacement, if any
OpenJSSE	OpenJSSE was used in 10.7 for TLSv1.3 support. Integration Server now ships with Azul Zulu JDK 11, which includes TLSv1.3.

Deprecated Item	Replacement, if any
webMethods Mobile Support feature and the WmMobileSupport package.	None

Changed Item	Description
The redesigned Integration Server Administrator is now the default administrator interface.	When you launch Integration Server Administrator, the new interface loads by default with the URL host:port/WmAdmin. In release 10.7, the legacy interface loads by default at the URL host:port and the new interface is accessible through the "Try the New Administration Console" option. You can access the legacy interface in 10.11 using the URL host:port/WmRoot/.
New algorithm for securing outbound passwords and master passwords.	Integration Server now uses an Entrust AES algorithm with a 256-bit key for securing outbound passwords and master passwords. This is a FIPS-certified algorithm. When an earlier version of Integration Server is migrated to version 10.11, the migration utility changes all existing passwords to use the new algorithm.

Changed Item	Description
Secret field on the Security > OAuth > Client Registration > Edit page is now masked	Integration Server Administrator now masks the contents of the Secret field. Click Reveal Secret to show the secret. Click Hide Secret to mask the secret again.
Multiple tenants can be created for an on-premise Integration Server.	Previously, only one tenant could be configured for an on-premise Integration Server that received requests from webMethods Cloud. Now, an on-premise Integration Server can have multiple tenants and each tenant can have a separate set of credentials. Each account on an on-premise Integration Sever is still associated with a single tenant, however, you can choose which tenant the account uses. Multiple accounts can use the same tenant.
webMethods Cloud > Settings page is now webMethods Cloud > Tenant connections page	An on-premise Integration Server can now have multiple tenants. The Settings page was renamed to reflect the expanded purpose of the page.
Messaging menu	The Messaging menu in Integration Server Administrator now has submenu items for configuration and trigger management for each type of messaging (webMethods messaging, JMS, MQTT). Previously, the Messaging > Messaging Configuration page contained the links to the DSP pages for configuration and trigger management.

Additionally, the following menu items have been shortened:

- webMethods messaging settings to webMethods settings

- webMethods trigger management to webMethods triggers

- JMS trigger management to JMS triggers

- MQTT trigger management to MQTT triggers

Changed Item	Description
Diagnostic utility archive can include logs from layered products.	Layered products, those that run on top of Integration Server such as Active Transfer, can include log files in the archive (.zip) file produced by the diagnostic utility by registering their product logs with the utility. Refer to layered product documentation to determine if layered products support including log files in the archive created by the diagnostic utility.
Diagnostic utility archive now gathers data for webMethods messaging and JMS messaging	The diagnostic utility now collects messaging information such as trigger conditions, JMS connection alias information, and messaging connection alias information.
Extended settings page	The Settings > Extended page (which displays all of the server configuration parameters) now displays more information in a single view. Specifically, the revised page displays available parameters, assigned values, default values, and whether server restart is required for a parameter.
Logs pages	The pages for server and audit log data in Integration Server Administrator have been redesigned to display the logs in an easier to read format. Log entries can be sorted in ascending or descending order for some columns.
HTTP Log now supports Common Log Format and Combined Log Format.	Entries in the http log can now be written in the Common Log Format or the Combined Log Format, which are standardized formats. Http log entries can still use the legacy format as well.
OAuth authorization server in stateless cluster	An access or refresh token created by one Integration Server in a stateless cluster can be used by any other Integration Server that uses the same database and the pub.oauth:introspectToken service can be used to introspect the token.
Default passwords for predefined user accounts.	Integration Server no longer sets default passwords for predefined user accounts. The Administrator user account password is now set during installation by the person installing the product. Passwords or the Developer and Replicator user accounts can be set after starting Integration Server.

Changed Item	Description
Developer and Replicator user accounts are disabled by default.	The predefined user accounts Developer and Replicator are now disabled by default. Additionally, a default password no longer exists for these user accounts. Before enabling the Developer or Replicator user accounts, you must set a new password for the account.
create command for is_instance script.	Includes new parameters admin.password and admin.changeOnLogin. Set admin.password to specify the password for the Administrator user account. Set admin.changeOnLogin to indicate whether the Administrator user account password must be changed upon first successful log in to Integration Server Administrator.

Release 10.7

Added Item	Description
New Integration Server Administrator	Available through the Try the New Administration Console link at the top of the DSP-based Integration Server Administrator, the new administration console includes: • Simplified, graphically rich, tab-based interface with improved accessibility, simpler debugging tools, and server controls. • An interactive Dashboard that provides visually detailed monitor system status, health, usage patterns and overall performance of Integration Server including JVM, Usage, Services, and API-related metrics. • Alerting and notification framework to notify users about alerts generated in the Integration Server such as password expiry, certificate expiry, and configuration changes that require a server restart.
TLS v1.3	Integration Server supports TLS v1.3 for secure inbound and outbound connections that use JSSE. Integration Server provides support for TLS v1.3 through use of OpenJSSE.

Added Item	Description
Restart notification	Integration Server Administrator now displays the message "Restart is required for changes to take effect." if server configuration changes were made that require a restart to take effect
SSL support with MQTT server	Integration Server now supports SSL for connections to the MQTT server.
TLS v1.1 and v1.2 support for email ports and outbound SMTP connections	Integration Server uses the JSSE library to provide TLS v1.1 and v1.2 support for incoming connections on e-mail ports and outbound SMTP connections. If your Integration Server uses OpenJSSE, TLS v1.3 is also supported.
Advanced SFTP client in Integration Server	Integration Server includes an advanced SFTP client, which provides new configuration properties and additional Key Exchange Algorithms, Machine Access Code (MAC) algorithms, and Ciphers. This enhanced support is available as a new version (version 2) along with the previous version (version 1) in the SFTP Server Alias settings screen. The preferred key exchange algorithms, ciphers, and MAC algorithms can be configured from the Integration Server Administrator UI.
Support for OAuth 2.0 compliant IMAP e-mail port in Integration Server.	To support OAuth 2.0 for IMAP e-mail ports, the Email Client Listener Configuration includes fields that allow you to enter the OAuth credentials issued by the OAuth Server to Integration Server. With these credentials, you can get the authorization code, which in turn is used by Integration Server to obtain the Access Token that is required to access the mailbox on the configured mail server.
Support for users' email address in LDAP directory configuration for Integration Server.	The "User Email" field is added to the LDAP Directory Settings page, which allows you to specify the name of the attribute that is used to store users' email addresses.

Added Item	Description
Logging for JNDI	New Trace level logging messages for the JNDI objects returned from the JNDI provider, including messages that provide the returned object, object type, and whether the object was retrieved from the JNDI provider or from cache. The new log messages are visible when the logging level of the facility code 0135 JNDI client configuration is set to Trace.
Retention of the protocol buffer definition for a publishable document type that uses protocol buffer encoding.	When you save a publishable document type for which protocol buffers is the encoding type, Integration Server creates a protocol buffer definition. The protocol buffer definition represents the structure and content of the document type as a protocol buffer, including the names, types, and attributes for the fields. Integration Server saves the human-readable protocol definition file named pdt.proto in the same location as the node.ndf for the publishable document type. Previously, Integration Server did not retain the protocol buffer definition.
Default HTTPS port	Integration Server now includes a default HTTPS port with the port alias DefaultSecure. During installation and instance creation, Integration Server automatically creates the diagnostic secure port at 5543. However, you can specify a different value during installation and instance creation.
Truststore alias for JVM truststore	Integration Server includes a default truststore alias named DEFAULT_JVM_TRUSTSTORE for the JVM's default truststore <JVM>/lib/security/cacerts
Secondary truststore alias	Integration Server now allows specifying secondary truststore as part of the truststore alias definition.
JVM Settings on the Server > Certificates page	Keystore alias and truststore alias to use with javax.net.ssl properties can be set on the Server > Certificates page instead of via the watt.server.ssl.keyStoreAlias and watt.server.ssl.trustStoreAlias parameters.

Added Item	Description
XML Schema Definition Language 1.1 support	Integration Server now provides support for many of the features introduced in XML Schema 1.1. A detailed list of supported features and unsupported features can be found in the *webMethods Service Development Help.*
Prefetch cache support for JMS triggers	JMS triggers that receive messages from Universal Messaging can now use a prefetch, or consumer, cache. Each time the JMS trigger requests more messages from Universal Messaging, the JMS trigger can retrieve multiple messages which are then placed in a cache. The JMS trigger processes messages from the cache instead of requesting messages from Universal Messaging.
New flag, recordIdentifierPre105Version, added in the WmFlatFile package	recordIdentifierPre105Version: Determines whether the pub.flatFile:convertToString service exhibits the same behavior as the version before the 10.5 release when recordIdentifierCheck is set to true.
Integration Server provides the configurations to make a REST API descriptor as a deployable asset in a cloud environment.	Integration Server provides the following hidden configurations parameters. You can use these parameters on an Integration Server that is running on a cloud environment, to configure the host address while building Swagger or WSDL URLs. watt.server.host.protocol: Specifies the communication protocol used by the Integration Server. watt.server.host.virtualHost: Specifies the target host machine where the asset is deployed. watt.server.host.port: Specifies the port of the host machine where the asset is deployed. watt.server.host.prefix: Specifies the URL prefix that is used to access the asset.
HTTP HEAD method support	Integration Server now supports HTTP HEAD method for the REST V2 resources.
Support for selection of REST operations for Swagger based consumer REST API descriptors	Integration Server supports to choose REST operations while creating a consumer REST API descriptor using a Swagger document.

Added Item	Description
Two-way SSL communication support	Integration Server supports two-way SSL communication between the on-premise Integration Server and webMethods Cloud.
Support for OpenAPI based provider REST API descriptors	Integration Server supports to create a REST API descriptor using an OpenAPI document that conforms to the OpenAPI specification 3.0.x.
MySQL community edition 8.x version support	Integration Server supports to use MySQL community edition 8.x database driver.
PostgreSQL 10.11 database support	Integration Server supports to use PostgreSQL database 10.11 version.
Tibero database support	Integration Server supports the use of the Tibero JDBC driver to connect to a Tibero database instance.
Caching of well-known DTDs for XHTML	When an XML file references the W3C definition for the XHTML DTD, Integration Server encountered a delay and overhead for accessing a W3C server. To avoid delays encountered while accessing the W3C definition for the XHTML DTD, Integration Server now caches the definitions for the well-known XHTML DTDs.
Custom property named $coderType for a publishable document type	For instances of a publishable document type configured to publish IData-encoded documents to Universal Messaging, when this property is set to idata_xml_bytes, instructs the publishing Integration Server to encode the IData message as XML using IDataXMLCoder. The same property also instructs the receiving Integration Server (that is, the server on which the webMethods messaging trigger resides) to decode the message as XML to IData.

Added Item	Description
Custom property named $coderType for JMSMessage/properties	When using pub.jms:send to send a message to Universal Messaging, Integration Server includes a custom property to indicate that the message should be encoded as XML and decoded from XML instead of as a byte array. When invoking the pub.jms:send add the following custom property and value to the JMSMessage/properties document in the pipeline: $coderType = idata_xml_bytes. The presence of the custom property $coderType and the value " idata_xml_bytes" instructs the sending Integration Server to encode the IData message as XML using IDataXMLCoder. The same property and value also instruct the receiving Integration Server to decode the JMS message as XML to IData.
Environment variables can be used as values of substitution variables during ACDL- based deployment.	When deploying to Cloud Container or any other ACDL-based deployment, the value of an environment variable can be used as the substitution value.
New statistic on Server > Statistics page	The Server > Statistics page in Integration Server Administrator includes Started Requests statistic which displays the number of started services requests during the last polling interval.
Kerberos authentication for outbound connections to a database through JDBC connection pools.	Integration Server supports the use of Kerberos authentication for outbound connections to a database through JDBC connection pools. Integration Server provides support for using the driver's Kerberos re-authentication feature with any supported database. This feature introduces the new database URL parameter to the JDBC connection pool: ReAuthenticateUser=<username>.
Sending of pub.publish.notification:error messages can be suppressed.	Integration Server generates pub.publish.notification:error messages (documents) when a webMethods messaging trigger encounters an error or exception condition during processing. In turn the pub.publish.notification:error messages generate Adapter::Error events. These messages and events may be unwanted and can now be suppressed using the watt.server.messaging.deliverNotificationErrors server configuration parameter.

Added Item	Description
JSON primitive type support	JSON can represent four primitive types (strings, numbers, Booleans, and null) at the root level. Integration Server now supports these types a valid JSON when converting to and from JSON.
Parquet support	Integration Server provides the WmParquet package which contains built-in services for reading Apache Parquet files and converting them to IData as well as writing IData to a Parquet file.
pub.mine* services support large payloads	The pub.mime services have been enhanced to support large payloads and to ensure that large payloads work. This enables the services to process data that exceeds the heap size.

Changed Item	Description
A web service connector for a web service descriptor that uses the current web services stack now supports the use of a custom HTTP Host header.	Previously, a web service connector that is part of a consumer web service descriptor that used the current web services stack (that is, the Pre8.2 compatibility mode property is set to false) could not use a custom Host header. Integration Server would overwrite any value supplied for Host in the transportHeaders input parameter for the web service connector. Now, a custom Host header value can be supplied to the transportHeaders input parameter for the web service connector and Integration Server will not overwrite it.
Suspending a webMethods messaging trigger that receives documents from Universal Messaging is now a pause in the subscription.	Prior to Integration Server version 10.7, suspending a webMethods messaging trigger that received messages from Universal Messaging resulted in Integration Server stopping and closing the subscription. Integration Server rolled back all of the documents that had been retrieved but not acknowledged to Universal Messaging, including unprocessed documents in the trigger queue and documents currently being processed. This led to duplicates. Pausing the subscription will not cause any documents to be rolled back, thus introducing duplicates. Any messages already received by the trigger will be processed as long as the trigger is enabled and processing is not suspended.

Changed Item	Description
How Integration Server chooses a media type for a response when the request Accept header with multiple media types and none of the media types has a "q" parameter.	Previously, when a request included an Accept header with multiple media types and none of the media types had a factor weighting ("q" parameter), Integration Server attempted to return the response using the last media type in the Accept header. The HTTP standard does not specify how to handle multiple media types with no "q" parameter, so this not incorrect. However, it is intuitive to assume that in this scenario, the first media type in the Accept header is the preferred one. Now, when a request includes an Accept header with multiple media types and none of the media types has a "q" parameter, Integration Server now attempts to respond with the first media type in the Accept header. If there is no content handler defined for the first media type, it attempts to respond with the second media type from the Accept header. This repeats until Integration Server finds a media type with which it can respond in the Accept header. If none are found, that is, there is not a content handler registered for any of the media types in the Accept header, Integration Server will respond with the text/html media type.
Exception handling during an implicit or explicit transaction.	If an error occurs during a transaction, Integration Server propagates an exception for this local transaction and does not proceed with service execution. Previously, Integration Server ignored the exception and executed the next step in the flow service. While the new behavior is the correct behavior, in some circumstances the proper handling of the exception for the transaction service may be undesirable. Integration Serve provides the watt.server.transaction.ignore.exception parameter to control this behavior.

Changed Item	Description
The addition of the '$httpMethod' variable to the input pipeline of a service signature is configurable	Previously, by default, Integration Server adds the '$httpMethod' variable to the input pipeline of a service signature while processing REST requests. Now, you can configure the addition of this property to the input pipeline using the "watt.server.rest.addHTTPMethodToInputPipeline" server configuration parameter. If you set this parameter to 'true', Integration Server adds the '$httpMethod' input variable with the requested HTTP method in the input pipeline while processing a REST request. The default value is 'false'.
Statistics log format	The default format of the statistics log is now csv (comma-separated values). To change the format to hexadecimal, the previous default format, set watt.server.stats.logfile.csv to false.
Changed statistic names on Server > Statistics page	Names of statistics on the Server > Statistics page in Integration Server Administrator have been changed as follows: Completed Req's is now Completed Requests Req's per minute is now Requests in last polling interval The Ended column is now named Completed.
Debug logging for 0088 SOAP facility	In the server log, SOAP request, SOAP response, and SOAP exception related log entries include the Thread Id and Session Age. This can help with debugging.
webMethods messaging trigger thread usage	The thread used for running the webMethods messaging trigger and listening for messages from Universal Messaging is not considered to be a document processing thread. That is, the thread that runs the trigger does not count towards the usage limit set by the Maximum Threads for document processing. Previously, the thread used to run the trigger and listen for messages counted toward the thread usage limit set by the Maximum Threads for document processing.

Changed Item	Description
Improved debug logging for OAuth authorization problems.	When an access token from an external authorization server is rejected, information about the rejection is written to the server log. Set the OAuth logging facility (0010) to Debug to see the messages in the server log.
Docker images created for Microservices Runtime or Integration Sever can be deployed to OpenShift.	A Docker image for Microservices Runtime or Integration Server created with the is_container.bat/sh script can be used with OpenShift by setting the -Dtarget.configuration parameter to OpenShift when executing the createDockerfile, createPackageDockerfile or createLeanDockerfile command.
Server log messages include thread ID	To improve troubleshooting, especially under heavy load, server log messages include the ID of the thread performing the activity that generated the log message.
Security log enhancements	Integration Server now includes the following changes for the security log: - Logging anonymous authentication requests. - Logging the IP address of the client that initiated the request instead of the proxy server address.
The -Dimage.name parameter now required when creating a Dockerfile for an Integration Server that runs on Windows	When the is_container.bat script is being used to create a Dockerfile for an Integration Server that runs on Windows the createDockerfile command must specify the -Dimage.name parameter. This is because Microsoft now provides Windows image tags per OS version instead of a "latest" base image.
TLSv1.0	TLSv1.0 is no longer a default enabled protocol for inbound or outbound connections.
JSON Schema enhancements	The enhanced JSON schema feature provides lucid and easy to understand message while creating and validating JSON documents using the built-in json schema services. With the enhanced support, JSON document types can be validated when used in the flow service signature at runtime.

Release 10.5

Added Item	Description
Administrator API	Integration Server provides an administrative API that can be used to perform administrative actions such as restarting Integration Server as well as creating, retrieving, updating, and deleting assets on Integration Server. The Administrator API uses the REST architectural style.
GraphQL Dataloader support	Dataloader is a utility that improves the performance of your GraphQL query. Dataloader supports batching and caching functional capabilities. When you create a Dataloader, Integration Server generates a loader service and a document type for keys. You can specify the field(s) in the key document for which you want to fetch the data from the data source. A loader service loads the data for the list of keys and returns a list of values.
MQTT Support	Integration Server can be used to publish MQTT messages to and receive MQTT messages from an MQTT server. Use the pub.mqtt:publish service to publish an MQTT message to an MQTT server. Use MQTT triggers to create topic subscriptions and then receive and process MQTT messages. Integration Server supports MQTT version 3.1.1
SSL session logging	Integration Server SSL session log contains SSL session information for inbound connections in JSON format. It contains information related to the cipher suite used, version of protocol, and client details along with server and session creation details. Using this information, you can analyze the details of a successful SSL handshake.
HTTP request or response compression	Integration Server supports data compression for both HTTP requests and HTTP responses. Integration Server as HTTP client supports data compression before sending the HTTP request and can also instruct the HTTP server to compress the data before responding back to the client.
SSL support for third party JNDI provider	Integration Server provides options to configure SSL communication between Integration Server and the JNDI provider.

Added Item	Description
HTTP/S port can be stateless	Integration Server provides the ability to make Integration Server HTTP and HTTPS ports stateless. A stateless port will not maintain any sessions or provide session IDs for requests received by the port.
SAML2 support at transport level	Integration Server adds support for sending SAML2 tokens in a custom HTTP header "wmIS-SAML2-Assertion", making it possible to use SAML2 tokens with all types of services and enabling integration with other security providers.
Service blacklist	Integration Server provides the ability to block the invocation of services through use of a service blacklist. An attempt to invoke a blacklisted service results in an Access Denied error.
Support for Outbound interceptor	The support for HTTP interceptors is enhanced with the addition of Outbound interceptor that is invoked when Integration Server is an HTTP client.
Additional support for JSON schemas	Integration Server now supports additional features when generating JSON document types, such as support for readOnly and writeOnly from the JSON schema draft 7 specification.
Support for Kerberos authentication at the HTTP/S transport level for consumer web services.	Integration Server now supports Kerberos authentication at the HTTP/S transport level for consumer web services.
Support for content-security policy	Two new server configuration properties: watt.server.http.Content-Security-Policy and watt.server.http.X-Permitted-Cross-Domain-Policies, enable you to secure Integration Server against attacks such as Cross Site Scripting (XSS) and data injection.
Server log archive file name	The server.log archive file name format for a size-based rotation changed from server.log_yyyyMMdd_HHmmssSSSZ, (where yyyyMMdd_HHmmssSSSZ is the date and time the log file was created) to server.log.yyyyMMdd.n.

Changed Item	Description
JVM version requirement for package release and the subscribing Integration Server	Previously, Integration Server installed but did not activate a package when the version of the JVM used by Integration Server was less than the minimum JVM version required for the package. This included cases where the JVM used by Integration Server and the JVM version required by the package were the same major version. For example, if the minimum JVM version required for a package is 1.8.0_23 and the Integration Server JVM version is 1.8.0_12, Integration Server installed the package but did not activate it. Now, the Integration Server on which the package is installed must run in a JVM with a major version that is the same or higher than the JVM version required by the package.
Support for accommodating clock skew between a Java Web Token (JWT) issuer and Integration Server	A variation between the JWT issuer server clock and the Integration Server clock can cause valid JWT tokens to be rejected. A new setting in the IS Administrator enables you to accommodate unavoidable and authentic variations. You can use this setting to define the permissible limits for variations between JWT issuer server clocks and the Integration Server clock.
Support for configuring and using Time To Live (TTL) settings for the UsernameToken used in the UsernameToken security policy	Two new properties, Username Token TTL and Username Token Future TTL, and their corresponding server configuration properties: watt.server.ws.security.usernameTokenTTL and watt.server.ws.security.usernameTokenFutureTTL, enable you to accommodate time differences between when a SOAP username token is created and when it reaches Integration Server.

Release 10.4

Added Item	Description
GraphQL support	GraphQL is a query language designed to build client applications by providing a flexible syntax and system for describing their data requirements and interactions. Using GraphQL service, you can query a specific data to the server and get the response in a predictable way. Integration Server acts as a GraphQL service provider and supports GraphQL version 9.X.
JSON Schema support	Integration Server provides native support for JSON Schema in which a developer can create a JSON document type from a JSON schema and then use the JSON document type to validate a JSOON payload.
Enhanced support for Swagger 2.0 standard while creating REST APIs	Integration Server supports Swagger constructs like tags, external docs and basic security definitions while creating APIs using resource first or swagger first approaches. Integration Server supports Swagger files that reference other files.
Support for Universal Messaging horizontal scalability	Universal Messaging horizontal scalability feature can be used with webMethods messaging connection alias that connects to Universal Messaging.
Enhancements for Enterprise Gateway Server while communicating with ICAP server for virus scanning or content filtering.	Enterprise Gateway supports both REQMOD and RESPMOD methods based on the ICAP server response to the OPTIONS method.
	Enterprise Gateway Server sends a header named, X-wMUUID with every outbound ICAP request to differentiate one scan from another.
	The Enterprise Gateway Server returns success if ICAP server status code is 200 and HTTP status code is within the range of 200-300. Enterprise Gateway Server returns failure if ICAP server status code is greater than or equal to 300.
Support for AMQP protocol using QPID JMS client libraries	Integration Server is certified to communicate with JMS providers that support AMQP protocol using QPID JMS client libraries. Integration Server supports the "Qpid JMS AMQP 0-x 6.3.3" JMS client libraries.

Added Item	Description
Lifecycle management settings for sockets.	Integration Server now includes server configuration parameters to control how long a socket is kept in the pool (watt.net.clientKeepaliveAgingLimit) and how many times it can be used (watt.net.clientKeepaliveUsageLimit). If either limit is exceeded, Integration Server will not return a socket to the pool. The new parameters are tuning parameters that will need to be adjusted based on use case and usage patterns.

Removed Item	Replacement, if any
WmVCS package and VCS Integration feature	Use the local service development feature (Local Version Control Integration) to check package elements and their supporting files into and out of a version control system directly from Designer.

Deprecated Item	Replacement, if any
Web services implementation introduced in Integration Server 7.1.	The current web services stack. Web service descriptors can be changed to work with the web services stack by changing the Pre-8.2 compatibility mode property to false. A bulk change of web service descriptors can be accomplished using the built-in service pub.utils.ws:setCompatibilityModeFalse.

Deprecation of the web services implementation introduced in Integration Server 7.1 results in the deprecation of the following:

- The ability to run in pre-8.2 compatibility mode.

- The Pre-8.2 compatibility mode property.

- The Integration Server WS-Security facility which provides support for WS-Security by associating built-in WS-Security handlers to web service descriptors.

  Note: Securing web services using WS-SecurityPolicy is not deprecated. For information about how WS-SecurityPolicy compares to the Integration Server WS-Security facility, including a comparison of policies provided for each, see the *Web Services Developer's Guide*.

- Any behavior specific to the web services implementation introduced in 7.1.

For more information about the differences between the 7.1 web services implementation and the web services stack, see the "About Pre-8.2 Compatibility Mode" section in the "Working with Web Services" chapter available in the *Web Services Developer's Guide* or *webMethods Service Development Help*.

Changed Item	Description
The Fail-Fast Mode Enabled and Currently In Fail-Fast options do not appear when editing the CentralUsers functional alias.	Fail-fast cannot be used with the CentralUsers functional alias definition. Consequently, the Fail-Fast Mode Enabled and Currently In Fail-Fast options do not appear when editing the CentralUsers functional alias.
is_container script contains a parameter for specifying when the default truststore store should be overwritten.	The is_container script now includes the -Dtarget.configuration parameter which must be set to wmcloud when creating a Docker image for an Integration Server that will be lifted and shifted into Integration Cloud. When this parameter is set to wmcloud, the is_container script overwrites the default truststore with the truststore required by Integration Cloud.
Allow and Deny Lists for ports	The port access control feature can now specify service URIs that are not part of the Integration Server namespace. Though any service URI can now be included in port access control, Integration Server only validates and enforces web service URIs as part of this change.
File-based audit logs can use character sequence delimiters.	The fields for an entry in a file-based audit log can now be fixed length or character delimited. Using character-delimited entries may reduce the size of the log.
JMSMessageID	When sending a JMS message to Universal Messaging, Integration Server sets the JMSMessageID.
Namespace preservation when decoding an xsd:any element	Integration Server now preserves all namespace declarations when decoding an xsd:any element. Previously, when decoding a SOAP request or response that includes an xsd:any element, Integration Server preserved only the namespace declarations (xmlns attributes) in the top level element of an xsd:any element. An xsd:any element may have any number of nested elements. Integration Server should not remove he namespace declarations in nested elements.
Resource Owner Password Credentials (ROPC) grant type can be used with public clients.	Integration Server now supports use of the ROPC grant type with public clients.

Release 10.3

Added Item	Description
Support for using the --time option (-t) with docker stop command.	The --time option specifies how long Docker waits before killing a container. Use the --time option to specify a waiting time long enough to allow Integration Server to shut down gracefully.
Custom security area for security logging.	The new method com.wm.app.b2b.server.ServerAPI.logSecurity makes it possible for applications to write entries to the security log as logging for the Custom security area.
SAG_IS_AUDIT_STDOUT_LOGGERS environment variable	Specifies the audit loggers to write to the console (STDOUT). When an audit logger writes to STDOUT it is considered an auxiliary output which means the logger will still write to the specified log destination of file or database.
EXTERNALIZE_PACKAGES environment variable	Instructs the Integration Server running in the Docker container to load the packages located in one of the specified directories at startup.
SAG_IS_LICENSE_FILE environment variable	Specifies the license key to be used with an Integration Server running in a Docker container which allows the license key to be changed without rebuilding the Docker image for the Integration Sever.
Support for ICAP preview headers	Integration Server now supports an ICAP preview header that allows the ICAP server to scan the preview content instead of scanning the entire request from Enterprise Gateway.
Support for OAuth grant types Resource Owner Password Credentials and Client Credentials	Integration Server now supports the Resource Owner Password Credentials and Client Credentials grant types.
JMS trigger restart task	If a JMS trigger does not start when a JMS connection alias starts, Integration Server schedules a task to retry starting the JMS triggers and then continues with activities associated with starting the JMS connection alias. The trigger restart task, which runs in its own thread, attempts to restart the failed JMS triggers at a set interval.

Changed Item	Description
Updated messageNumber key for reliableMessagingProperties.	Specifies the message number in the message sequence. In cases where there are several message numbers in the message sequence, you can specify a custom message number.
Serial webMethods messaging triggers that receive documents from Universal Messaging now process documents from all publishers in publication order in a load-balanced fashion.	Previously, a webMethods messaging trigger with serial processing corresponded to a priority named object on a channel on Universal Messaging server. Now, a serial webMethods messaging trigger corresponds to a serial durable subscription (named objects in Universal Messaging are now called durable subscriptions). This provides processing in publishing order for a serial trigger in a cluster or a non-clustered group of Integration Servers. Over time, it allows for the Integration Server in a cluster or non-clustered group to process messages in a load balanced fashion.
Server log entries written to the console now include the identifier "ISSERVER"	To help differentiate server log messages from other messages written to the console, server log entries include the identifier "ISSERVER". Previously, there was no identifier.
Allowed Grants property for registering clients	When registering clients for use with an Integration Server acting as an authorization server for OAuth, you can specify the grant types a client can use. Previously, all registered clients could use the authorization code grant type and the implicit grant type. All registered clients migrated from an earlier version of Integration Server will have the Authorization Code Grant type and Implicit Grant type selected.
Token endpoint authorization property for global OAuth settings	Specifies whether the token endpoint accepts an existing session or requires credentials for authentication. Previously, the token endpoint service always accepted requests from clients that had an active session on Integration Server and did not provide an option to require authentication every time the client requests a new access token or refreshes an existing access token

Changed Item	Description
Improved visibility into sending messages from client side queue to Broker.	To improve visibility and control of sending messages from the CSQ to the Broker for webMethods messaging, Integration Server introduces the following:
	The maximum number of retry attempts that Integration Server makes when publishing a message from the CSQ to Broker is now configurable. Previously, the maximum number of retries was 5 and could not be changed. For details about the server configuration parameter watt.server.publish.maxCSQRedeliveryCount, see below.
	At the debug level for facility 0098 Dispatcher, the Integration Server now logs additional messages that indicate why an attempt to send a message from the CSQ to Broker failed.
	Existing log entries as well as the newly introduce log entries for facility 0098 Dispatcher now include the message ID and the name of the publishable document type for which the message is an instance document.
Ownership of files in Docker image is changed to non-root user	When running the is_container.sh script to create Docker images, ownership of the files is changed to non-root (sagadmin) user. The optional –Dimage.createUser parameter can be passed to the createDockerfile, createLeanDockerfile, or createPackageDockerfile commands to control the ownership of the files in the Docker image.

Changed Item	Description
Client ID for webMethods messaging triggers that receive message from Universal Messaging	For webMethods messaging triggers created in Integration Server 10.3, the client ID of the trigger is now the trigger's shared durable name which is as follows: *clientPrefix##triggerName* Where *clientPrefix* is the Universal Messaging connection alias used by the trigger, *triggerName* is the fully qualified name of the trigger where periods and colons are replaced by double underscores. Previously, the client ID naming convention for a trigger that receives message from Broker was the same as the client ID naming convention for a trigger that receives messages from Universal Messaging.
JSON payload for invoking a REST v2 resource	Prior to Integration Server 10.3, the JSON payload for a REST request of type POST, PUT, or PATCH needed to include the root element of a document in the service signature. This was necessary even though the Swagger document generated for the REST API descriptor did not include the root document. Beginning with Integration Server 10.3, the request payload should match the Swagger definition – not the service signature. If there is a root element in the service signature input, only the contents of the root element need to be provided in the request payload.

Release 10.2

Added Item	Description
Enhanced messaging logging	Integration Server writes detailed log entries when sending or receiving and processing messages. The detailed logging makes it possible to track an individual message across your Integration Servers from the time the message is published through the time a trigger receives, processes, and acknowledges the message. Enhanced logging includes the introduction of the messaging audit log.

Added Item	Description
WebSocket support	Integration Server enables development of applications using the WebSocket protocol. The WebSocket protocol provides simultaneous two-way communication between a client endpoint and server endpoint over a single TCP connection.
Whitelist filtering	To prevent Integration Server from deserializing untrusted Java objects, Integration Server now performs whitelist filtering and includes a whitelist of classes that can be loaded and deserialized in Integration Server.
Support for default scope for Integration Server acting as the OAuth resource server	When configuring an external authorization server, you can specify a default scope in the Default Scope field.
SSL field on the About page of Integration Server Administrator	To help troubleshoot connectivity issues, the About page of Integration Server Administrator, the Software section now contains an SSL field that displays one of the following: - The JCE Unlimited Strength Jurisdiction Policy File was not found. Please install it. - The JCE Unlimited Strength Jurisdiction Policy File was found
Support for security response headers	To enhance the security of response headers, Integration Server now supports the following HTTP response security headers: − X-Content-Type-Options − X-XSS-Protection − Strict-Transport-Security
Improved support of REST multipart messages	Integration Server provides Java API that enables you to register your own services along with the associated coders for multipart content handler.
Support for strong password polices	To enhance the security, Integration Server now supports stronger password policies for user accounts. To achieve this, Integration Server now covers the following aspects of password security: - Stronger password requirements - Password expiration requirements - Account locking

Added Item	Description
Circuit Breaker	The circuit breaker feature provides the ability to configure a circuit breaker for any service residing on a Microservices Runtime or an appropriately licensed Integration Server.
Any field type support for Digital Event Services	An Object or Object List with a Java wrapper type of UNKNOWN is included in the Digital Event Servers event type definition as an Any or Any[] field. Previously, an Object or Object List field with an UNKNOWN Java wrapper type were not included in the corresponding Digital Event Services type definition. Additionally, IS document types can be used to define the structure and content for an Any field in a document published to Digital Event Services.
Map field type support for Digital Event Services	An empty inline document variable configured to allow unspecified fields in a publishable document type is now represented as Map field in the corresponding Digital Event Services type definition.
Synchronizing document types with Digital Event Services automatically	Document types can be set to automatically synchronize with a corresponding Digital Event Services event type definition in the Digital Event Services repository upon save. Set this property to true for a document type that may be used to define the structure and content for the value of an Any field in a document that is published to Digital Event Services.

Added Item	Description
Migration Utility handles updates for hostname	Prior to release 10.2, if you upgraded your Integration Server by installing the new release on a different machine, you had to update the database components below to reflect the host name of the new machine, as follows:
	- If you had scheduled tasks that executed on Integration Server on specific machines in your old installation, you had to update database component ISInternal, table IS_USER_TASKS, column TARGET.
	- If you wanted to be able to resubmit services that ran before you upgraded, you had to update the following:
	- Database component ProcessAudit, table WMRULEDIST, column SERVID.
	- Database components IS CoreAudit, ProcessAudit; tables WMDOCUMENT, WMSERVICE, WMSERVICE4X, MSERVICEACTIVITYLOG,
	WMSERVICEASSOC, WMSERVICECUSTOMFLDS; column SERVERID.
	- If you wanted to be able to resubmit processes and process steps that ran before you upgraded, you had to update database component ProcessAudit, table PRA_PROCESS_STEP, SERVERID column.
	The Integration Server migration utility now updates all of these tables for you automatically.

Removed Item	Replacement, if any
No support for host-based name format.	Integration Server does not support the host-based name format to specify the Service Principal Name Format when adding or editing an HTTP(s) port.

Changed Item	Description
updateLanguagePack command for is_instance script.	Provides an option to specify the package and/or feature list to which to apply the language pack installation.
create command for is_instance script.	Provides an option for specifying a default IP address to which to bind ports on the new Integration Sever instance.
Server log entries can be written to the console, a file, or both.	Previously, Integration Server could write server log entries to a file or the console (STDOUT). Now, the -log switch includes the both option to write server log information to the computer screen (STDOUT) and to the destination specified by the watt.debug.logfile parameter.
Docker container for an Integration Server Docker image writes the server log to the console (STDOUT).	When running a Docker image of Integration Server in a Docker container, Integration Server writes the server log to the console as well as to the server.log file. Many container deployment solutions provide the ability to view the console log STDOUT for a container.
Repeating tasks scheduled to execute in the Daylight Savings Time (DST) overlap.	If a task includes an hours mask (e.g., "1:15" for running every date at 0115), then the task will run only once, at the pre-overlap ("first") matching time. However, if a task does not have an hours mask (e.g., "hh:15", meaning run at 15 minutes past each hour), then the task will run at the pre-overlap time (the "first" 1:15), and also at the overlap time (the "second" 1:15). Previously, the absence of an hours mask did not result in the task executing twice.
Diagnostic collector	To help with debugging, the Integration Server diagnostic collector returns information regarding whether or not the JCE Unlimited Strength Jurisdiction Policy File is applied to the JVM in the config\ServerAbout.txt file.
	Integration Server also adds the following file to the list of security providers returned with the diagnostic data: config\JCESecurityInfo.txt

Changed Item	Description
Digital Event Service type definition	With the introduction of support or Any fields and Map fields for Digital Event Services, the Digital Event Type definition generated for a publishable document type changes in the following ways:
	▪ An Object or Object List with a Java wrapper type of UNKNOWN is included in the Digital Event Servers event type definition as an Any or Any[] field. Previously, an Object or Object List field with an UNKNOWN Java wrapper type were not included in the corresponding Digital Event Services type definition
	▪ An empty inline document variable in a publishable document type is now represented as Map field in the corresponding Digital Event Services type definition. Previously, an inline document variable became an empty nested event.

Release 10.1

Added Item	Description
SFTP Host Key Checking field in the SFTP User Alias Advanced Settings screen	Allows Integration Server to verify the host key of SFTP server during connection.
Create JMS administered objects on demand.	Integration Server can create administered objects in the JNDI namespace automatically when the lookup for the object fails. This functionality, which is controlled by the Create Administered Objects On Demand option for a JMS connection alias, is available only when Universal Messaging is the JMS provider and the JNDI provider.
Support for using volumes when running an Integration Server image in a Docker container.	Docker volumes can be used for externalizing the contents of the logs directory for the Integration Server instance and the Integration Server profile as well as the config directory for the Integration Server instance running in the Docker container.
The is_container.sh script, which facilitates interaction with Docker, now provides an option for specifying a base image.	When using the createDockerFile or createLeanDockerfile command to create a Docker image for Integration Sever, specify a base image using the argument -Dimage.name.

Added Item	Description
Support for using an Integration Server running in a Docker container as the local development server for the local service development feature in Designer.	When using the createDockerFile or createLeanDockerfile command to create a Docker image for Integration Sever, specify that the Integration Server will be used as the local development server using the argument -Dtarget.configuration=localdev
New flag, useAlternateNameForSegment, added in the WmFlatFile package.	useAlternateNameForSegment: Determines whether the flat file parser uses an alternate name for segments if an alternate name is provided.
Support for RFC 7662, OAuth 2.0 Token Introspection	Access tokens generated by an external authorization server can be used to access resources in Integration Server. Access tokens generated by an Integration Server authorization server can be used to access resources in a resource sever that is not an Integration Server.
Support for RFC 7009, OAuth 2.0 Token Revocation	Access tokens generated by Integration Server can be revoked.
Support for REST V2 resources	Integration Server provides a flexible way of defining resources for REST requests. In the Service Development perspective, a developer can define a REST V2 resource with operations that include the following: • The format of the URL that REST clients must follow when sending requests to Integration Server acting as the REST server. • The HTTP methods supported by the resource operation. • The flow service associated with a resource operation.
Support for JWT authentication	Integration Server provides support for JSON Web Token (JWT) authentication. JWT provides a secured means of exchanging claims between two parties.

Added Item	Description
HTTP Interceptor	Integration Server provides a framework for creating and registering an HTTP interceptor. An HTTP interceptor intercepts all received HTTP requests and outbound HTTP responses. Integration Server makes the raw HTTP request and response, including the HTTP header information, accessible to the HTTP interceptor.
Serial JMS triggers supported with Universal Messaging.	When using a connection factory configured for a durable subscriber, Integration Server now supports the use of serial JMS triggers with Universal Messaging.
Additional client side queue (CSQ) logging.	When facility code 134 is set to debug or trace levels, Integration Server provides additional logging when CSQ errors occur.
Integration Server now supports migration when source and target version are same.	The migration utility can now be used for migration where the source and target versions of Integration Server are the same. This can be useful for data center or machine moves

Removed Item	Replacement, if any
WmTomcat package	Existing web applications based on the WmTomcat package can be moved to webMethods Application Platform.

Changed Item	Description
Archived stats.log file name format.	Integration Server now uses the following naming format for the archived stats.log files: stats.yyymmdd_hhmmss.log where the timestamp indicates the time at which Integration Server archived the log file. Previously, the archived stats.log name did not include the time portion which caused a naming conflict that prevented successful log rotation if Integration Server attempted to rotate the stats.log more than once on the same day.
Manage Destinations check box	The Manage Destinations check box for a JMS connection alias is now named Enable Destination Management with Designer.

Changed Item	Description
Share Client Prefix check box	The Share Client Prefix check box for webMethods messaging connection aliases is now named Client Prefix Is Shared. The field name now includes the text "prevents removal of shared messaging provider objects" in parentheses to clarify the purpose of the option.

Release 10.0

Added Item	Description
Allowed HTTP method per service	For each service, you can identify the HTTP methods that can be used to invoke the service.
Default web service provider endpoint alias	For HTTP and HTTPS, you can identify a provider web service endpoint alias as the default for each protocol. If a provider web service descriptor contains a binder that specifies the default endpoint alias or no alias for the Port alias property, Integration Server uses the information in the default alias when constructing the WSDL for the descriptor and during run-time processing.
Follow the master support for JMS connection aliases	When Universal Messaging is the JMS provider, you can configure the JMS connection alias to follow the master for consumer and producer connections.
JDBC pool configuration when Integration Server is offline	In conjunction with Command Central, Integration Server makes it possible for administrators to change the configuration of JDBC pools when Integration Server is offline.
JMS Trigger Groups	A JMS trigger group is a collection of two or more identical JMS triggers. Using the methods in the com.wm.app.b2b.server.jms.consumer. JMSTriggerGroupFacade class, users can quickly create JMS triggers for a trigger group. This can be especially helpful when needing to create several identical triggers that point different Universal Messaging realms, such as when using the new Universal Messaging round robin cluster feature for JMS.

Added Item	Description
PATCH support	Integration Server offers support for HTTP PATCH method, which is used for partial updates. In Service Development, a developer can specify PATCH support when defining REST resources, Integration Server also supports the PATCH methods in the pub.client:http service as well as with CORS (Cross Origin Resource Sharing) requests.
REST Resource URLs	Integration Server provides a flexible way to define resource URLs for REST APIs. The new capability allows a developer to define a URL format for the service that does not adhere to the folder structure within the package. Additionally, you can define multiple REST resources for a single service with the HTTP methods of your choice.
Retrieving and Setting HTTP Headers	Integration Server provides the ability to get and set HTTP request and response headers easily. To get the details of an HTTP request for a service, you can add a document reference variable named $httpRequest that references the pub.flow:HTTPRequest document type in the input signature of a service. While invoking a service that includes a $httpRequest document reference variable, Integration Server populates the $httpRequest variable with information from the from the HTTP request. To get the details of an HTTP request for a service, you can add a document reference variable named $httpRequest that references the pub.flow:HTTPRequest document type in the input signature of a service. While invoking a service that includes a $httpRequest document reference variable, Integration Server populates the $httpRequest variable with information from the from the HTTP request.
Searching for JMS Triggers	You can search for of filter the displayed triggers using the Search Triggers link on the Settings > Messaging > JMS Trigger Management page. You can search by trigger name, JMS connection alias or destination to which the trigger subscribes.

Added Item	Description
Session ID Masking in Logs	Session IDs in the session and server logs can now be secured by masking the ID. When you enable the option for securing Session IDs, Integration Server uses the asterisk (*) character to mask the Session ID strings in the logs which prevents user who access the log entries from viewing the actual Session IDs.

Changed Item	Description
Format of the <soap:address location> element in the WSDL of a provider web service descriptor.	The <soap:address location> element in the WSDL document generated for a service first provider web service descriptor will be in the following format regardless of specifying either a provider web service endpoint alias or a host and port as the endpoint: http://host_name.port/ws/namespace:descriptorname
Follow the master is configurable per Universal Messaging connection alias	For a Universal Messaging connection alias, you can now enable follow the master on a per connection alias basis. Additionally, you can decide whether message producers and/or consumers follow the master realm server using the "Enable Follow the Master for Producers "and "Enable Follow the Master for Consumers" options respectively. Previously, following the master was either enabled or disabled for all connections.

Changed Item	Description
JMS Trigger Management page	The Settings > Messaging > JMS Trigger Management page includes the following changes:
	Clicking Search Triggers displays a simple search feature.
	In the JSM trigger list, columns are re-ordered to put the State column right next to the trigger name.
	The State column values can now be "Enabled", "Disabled", or "Suspended". Previously, the possible State values were "Yes", "No", "Suspended".
	The Status column is new. Possible values are "Running" or "Not Running" followed up by an explanation, such as "Not Running (trigger disabled)".
	The SOAP-JMS triggers list is displayed only if Integration Server contains a loaded package with a SOAP-JMS trigger.
Maximum Entries in Cache field	For a distributed cache, the Maximum Entries in Cache value must be set and must be set to a value greater than 0.
Universal Messaging connection alias Client Authentication	The Client Authentication option named SSL is now named Certificate Based, which is more accurate.

Release 9.12

Added Item	Description
IS_DES_CONNECTION messaging connection alias	A predefined messaging connection alias used to establish a connection with a Universal Messaging server for purposes of sending and receiving events with Digital Event Services.
Kill All Sessions Except Your Session option in the Server > Statistics > Sessions screen	Use the Kill All Sessions Except Your Session option in the Current Sessions Screen to kill all the sessions except the session you are currently running.
is_container scripts to create Integration Server images for use in Docker containers	Use the is_container scripts, created by the Integration Server installation, to build Integration Server images for use in Docker containers. You can access the scripts from the following location: Integration Server_directory/docker.

Added Item	Description
Caches and cache managers can be edited while in quiesce mode	Public and system cache managers and caches can be edited when Integration Server runs in quiesce mode.
Public cache can be used for service results caching.	A local or distributed public cache can now be used for service results caching. Previously, Integration Server stored cached service results in the ServiceResults system cache which is part of the SoftwareAG.IS.Services system cache manager.

Changed Item	Description
FTPS ports that use the HTTPS protocol can now be configured using the "Use JSSE" option.	FTPS ports that support TLS 1.1 or TLS 1.2 protocol can now be configured using the "Use JSSE" option in the Edit FTPS Port Configuration screen of Integration Server Administrator. Previously, this option was not available.
Allowed cipher suites can be specified in a file.	To make it easier to specify a long list of cipher suites for use with inbound and outbound SSL connections, Integration Server now allows specifying a file as the value for the cipher suite server configuration properties watt.net.ssl.client.cipherSuiteList, watt.net.ssl.server.cipherSuiteList, watt.net.jsse.client.enabledCipherSuiteList, watt.net.jsse.server.enabledCipherSuiteList.

Changed Item	Description
Some screens in Integration Server Administrator are disabled if webMethods API Gateway is installed on Integration Server.	The following screens under Security screens are disabled:

The following screens under Security screens are disabled:

- Enterprise Gateway Rules

- Enterprise Gateway Rules > Default Alert Options

- Enterprise Gateway Rules > Default Alert Options > Edit

- Enterprise Gateway Rules > Denial of Service Options

- Enterprise Gateway Rules > Denial of Service Options > Configure Global Denial of Service

- Enterprise Gateway Rules > Denial of Service Options > Configure Denial of Service by IP Address

- Enterprise Gateway Rules > Mobile Application Protection Options

- Enterprise Gateway Rules > Mobile Application Protection Options > Device Types > Edit

- Enterprise Gateway Rules > Mobile Application Protection Options > Mobile Applications > Edit

- Enterprise Gateway Rules > Rules > Create

The following screens under Security > Ports > Add Port are disabled:

- Edit Enterprise Gateway Server Configuration

- Edit Internal Server Configuration

Release 9.10

Added Item	Description
Configure the allowed protocols for JSSE on a per port basis	Integration Server now provides the ability to specify the allowed protocols for JSSE on a per port basis.
Out of the box support for Content-Type application/xml.	Integration Server content handler named ContentHandler_XML now includes support for the content type application/xml.
Kerberos authentication for outbound service requests.	The pub.client:http service now includes Kerberos-related parameters that you can use to acquire a Kerberos ticket for inclusion in the outbound service request.
Java API Classes for working with XMLData in Java services	A set of classes in com.wm.data for manipulating XMLData in Java services. For a list of classes, see the Added APIs for the Release 9.10 in section 11.0 Added, Removed, Deprecated, or Changed APIs
Universal Messaging connection alias can now be configured to connect to an SSL-enabled port on a Universal Messaging realm server	When configuring a Universal Messaging connection alias, you can specify SSL as the client authentication and provide the truststore and keystore information needed for Integration Server to establish an SSL connection with the Universal Messaging realm server. Previously, to establish a secure connection to the Universal Messaging realm server, you needed to configure the javax.net.ssl properties in the JVM used by Integration Server.
A queue on Universal Messaging can be used as the audit logging queue	Integration Server provides the option of using a Universal Messaging queue instead of the internal queue as the audit logging queue on a per logger basis.
Follow the master for webMethods messaging connections to Universal Messaging server	Integration Server now uses the Universal Messaging client setting "follow the master" which indicates that the client session always connects to the master realm server. The follow the master behavior takes precedence over the behavior indicated through the use of a comma-separated or semicolon-separated list of realm servers in the Realm URL field for a Universal Messaging connection alias.

Removed Item	Replacement, if any
EventBus predefined JMS connection alias	The EventBus alias is no longer available as a predefined JMS connection alias. That is, new Integration Server installations will not include this predefined JMS connection alias. However, if you migrated to Integration Server version 9.10 or later from an earlier version, then you might still have the EventBus alias.
EventBusJndiProvider predefined JNDI provider alias	The EventBusJndiProvider alias is no longer available as a predefined JNDI provider alias. That is, new Integration Server installations will not include this predefined JNDI provider alias. However, if you migrated to Integration Server version 9.10 or later from an earlier version, then you might still have the EventBusJndiProvider alias.

Deprecated Item	Replacement, if any
WmTomcat Package	Existing web applications based on the WmTomcat package can be moved to webMethods Application Platform.

Changed Item	Description
Client queue window size	The Universal Messaging window size for the client queue that corresponds to webMethods messaging trigger is now set to the sum of the Capacity and Max execution threads trigger properties. Previously, Universal Messaging determined the window size.

Changed Item	Description
Filters in a webMethods messaging trigger must be identical if the conditions subscribe to the same publishable document type.	If more than one condition in the webMethods messaging trigger specifies the same publishable document type and the trigger receives messages from Universal Messaging, the provider filters must be identical in each condition but the local filters can be different. Specifically, the contents of the Provider Filter (UM) column must be identical for each condition that subscribes to the publishable document type. The contents of the Filter column can be different.
	When using pub.trigger:createTrigger to create a trigger, the contents of *conditions/messageTypeFilterPairs/providerFilter* must be the same for each condition. The contents of *conditions/messageTypeFilterPairs/filter* can be different for each condition.
	The filter requirement is unchanged for a webMethods messaging trigger that receives messages from Broker. That is, if more than one condition in the webMethods messaging trigger specifies the same publishable document type and the trigger receives messages from the Broker, the filters in the conditions must be the same.
Integration Server Administrator	The HTML-based utility used to administer the webMethods Integration Server has a new look and feel. Menu and screen locations have not changed.
Internal Server ports that use the HTTPS protocol can now be configured using the "Use JSSE" option.	Internal Server ports that support TLS 1.1 or TLS 1.2 protocol can now be configured using the "Use JSSE" option in the Edit Internal Server Configuration screen of Integration Server Administrator. Previously, this option was not available.
OAuth Errors now returned in the content type specified in the client request	Previously, Integration Server always returned OAuth errors as HTML. Now, Integration Server returns OAuth errors in the content type specified in the client request.
Reply messages for webMethods messaging routed through Universal Messaging.	Integration Server now always encodes reply message as IData even when the encoding type of the reply document type is protocol buffers.

9.0　Added, Removed, Deprecated, or Changed Built-In Services

A release is listed in this section only if changes occurred in that release.

Release 10.11

Added Service	Description
pub.alert:deregisterChannel	Deregisters a registered custom alert channel.
pub.alert:registerChannel	Registers a custom alert channel.
pub.alert:getChannel	Gets the details of a specific channel.
pub.alert:updateChannel	Updates the settings of a registered custom channel.
pub.grpc.observer:onCompleted	Notifies the gRPC server of a successful stream completion.
pub.grpc.observer:onError	Notifies the gRPC client about an unsuccessful gRPC request caused by an error that occurred during the gRPC request processing performed by the gRPC method flow service.
pub.grpc.observer:onNext	Converts a document (IData) to a gRPC response and returns it to the gRPC client.
pub.security:decrypt	Decrypts the encrypted data and returns plain data as a stream object or a byte array.
pub.security:decryptAndVerify	Decrypts the encrypted data and verifies the associated digital signature.
pub.security:encrypt	Converts plain data to encrypted data.
pub.security:generateHashValue	Returns the hashed value for a string input.
pub.security:generateSalt	Creates a salt value.
pub.security:sign	Adds a digital signature to data.
pub.security:signAndEncrypt	Adds a digital signature to data and then encrypts the data.
pub.security:verify	Verifies the digital signature associated with the data.
pub.utils.messaging:getUMDependencies	Generates a list of Universal Messaging assets on which Integration Server depends, such as channels, queues, durables, and Administered Objects for a JMS messaging connection alias and/or a Universal Messaging connection alias.

Added Service	Description
pub.utils.messaging:syncDocTypesToUM	Creates an updated protocol buffer descriptor for one or more publishable document types and then synchronizes it with the associated provider definition (channel) on Universal Messaging.
pub.jwt:extractClaimsFromJWT	Returns the requested claim details from a JWT.
pub:jwt:generateSignedJWT	Generates a signed JWT.
pub:jwt:verifyJWT	Verifies the signature in a JWT, the token expiration time, and the not-before time.

Deprecated Service	Replacement, if any
pub.event.eda:event	There is no replacement document type.
pub.event.eda:schema_event	There is no replacement schema.
pub.event.routing:eventAcknowledgement	There is no replacement document type.
pub.event.routing:send	Use Digital Event Services.
pub.event.routing:subscribe	Use Digital Event Services.
pub.event.routing:unsubscribe	Use Digital Event Services.

Changed Service	Description
pub.alert.notifier:create	The service now includes the *consumptionMode* and *autoMark* input parameters. These are optional. • *consumptionMode* specifies whether notifications are created for all alerts or only the latest alerts. • *autoMark* specifies whether notifications are automatically marked as read or a user must do it manually. The *channelIDs* parameter now accepts channel IDs as array elements instead of comma-separated values. The *severityCutoff* parameter now accepts a severity name instead of the severity cutoff identifier.
pub.alert.notifier:list	The service now includes the *consumptionMode* and *autoMark* parameters in the output.

Changed Service	Description
pub.alert.notifier:update	The service now includes the *consumptionMode* and *autoMark* input parameters. These are optional.
	• *consumptionMode* specifies whether notifications are created for all alerts or only the latest alerts.
	• *autoMark* specifies whether notifications are automatically marked as read or a user must do it manually.
	The *channelIDs* parameter now accepts channel IDs as array elements instead of comma-separated values.
	The *severityCutoff* parameter now accepts a severity name instead of the severity cutoff identifier.
pub.alert:channels	The service now lists 13 alert channels instead of 10. The additional alert channels are Metering Log, User Management, and Master Password. Each channel now has two additional parameters:
	• *emissionEnabled* - indicates whether alerts are emitted for the channel and stored in the database or not.
	• *systemNotificationEnabled* - indicates whether notifications are enabled or not for a channel.
pub.alert:countAll	The service now includes the optional *filter* parameters to get the count of a subset of all alerts in the system.
pub.alert:countUnread	The service now includes the *notifierName* and *filter* parameters to get the count of unread alerts for a notifier or a subset of the unread alerts. Both the parameters are optional and can be used independently or together.
pub.alert:fetchAll	The service now includes the optional *filter* parameters to fetch a subset of all the alerts in the system. The service also includes the *sortBy* and *sortOrder* optional input parameters to sort the fetched alerts.

Changed Service	Description
pub.alert:fetchUnread	The pub.alert:fetch service from the previous release is renamed to pub.alert:fetchUnread, which now includes the *notifierName* and *filter* parameters to fetch the unread alerts for a notifier or a subset of the unread alerts. Both the parameters are optional and can be used independently or together. The service also includes the *sortBy* and *sortOrder* optional input parameters to sort the fetched alerts.
pub.alert:channels	The service now includes the *description, emissionEnabled*, and *systemNotificationEnabled* output parameters for each channel.
pub.alert:getSettings	The *enabledEmissionChannels* and *enabledSystemNotifierChannels* parameters in the service output display channel IDs as an object list and not as comma-separated values.
pub.alert:setSettings	The *enabledEmissionChannels* and *enabledSystemNotifierChannels* input parameters in the service accept channel IDs as array elements and not as comma-separated values.
pub.client:http	The service now includes the *followRedirect* to input parameter to control whether the outbound request follows a redirect when receiving a response code between 300 and 400.
pub.compress:compressData	The service includes an additional input parameter *encoding* that enables you to set the name of a registered IANA character-set that specifies the encoding to use when converting the input string to an array of bytes.
pub.json:jsonStreamToDocument	The service now includes the *jsonDocumentTypeName* and *strict* input parameters that determine how Integration Server performs the transformation based on a JSON document type.
pub.json:documentToJSONString	The service now includes the *jsonDocumentTypeName* and *strict* input parameters that determine how Integration Server performs the transformation based on a JSON document type.

Changed Service	Description
pub.json:jsonStringToDocument	The service now includes the *jsonDocumentTypeName* and *strict* input parameters that determine how Integration Server performs the transformation based on a JSON document type.
pub.oauth:authorize	The service now includes *code_challenge* and *code_challenge_method* input parameters for use with PKCE.
pub.oauth:getToken	The service now includes the *code_verifier* input parameter for use with PKCE.
pub.oauth:removeExpiredAccessTokens	The service now returns the output parameter *removedTokensCount*, which indicates the number of expired tokens removed by the service.
pub.security.util:getCertificateInfo	The service now includes the *dateFormat* parameter to specify the date format to use for the date returned by the *notBefore* and *notAfter* fields in the validity output parameter. By default, the pub.security.util:getCertificateInfo service uses a preset date format that returns only the last two digits of the certificate expiration year. This creates ambiguity which the *dateFormat* parameter can prevent.
pub.xml:documentToXMLString	The service now includes the *strictEncodeElements* parameter, which controls the behavior of the encode parameter.

Release 10.7

Added Service	Description
pub.alert.notifier:create	Creates a notifier.
pub.alert.notifier:delete	Deletes the specified notifier.
pub.alert.notifier:disable	Disables the specified notifier.
pub.alert.notifier:enable	Enables the specified notifier.
pub.alert.notifier:list	Lists all notifiers in the system.
pub.alert.notifier:update	Updates the settings of the specified notifier.
pub.alert:channels	Gets all alert channels in the system.
pub.alert:severities	Lists all the severities in the system.

Added Service	Description
pub.alert:countAll	Gets the count of all alerts in the system.
pub.alert:countUnread	Gets the count of all unread alerts in the system.
pub.alert:emit	Generates an alert for the configured alert channel.
pub.alert:fetch	Gets unread alerts in the system based on the page number and page size.
pub.alert:fetchAll	Gets all alerts in the system based on the page number and page size.
pub.alert:markAllAsRead	Marks all alerts as read.
pub.alert:markAsRead	Marks a specific alert as read.
pub.alert:markAsUnread	Marks a specific alert as unread.
pub.alert:getSettings	Gets the settings of the system notifier.
pub.alert:setSettings	Updates the settings of the system notifier.
pub.client.oauth:getExternalAccessToken	Gets the access and refresh tokens that the OAuth server generates for the Integration Server. This service can be used when Integration Server uses the OAuth authentication mechanism for services such as "pub.client:smtp".
pub.client.sftp.admin:getDefaultAlgorithms	Gets the default list of algorithms supported by the Integration Server SFTP client.
pub.client.sftp.admin:getHostKey	Gets the host key of the SFTP server.
pub.json:getArrayIterator	Returns a batch iterator object.
pub.json:getNextBatch	Gets the next batch of array elements by parsing the array paths in the iterator object returned by the "pub.json:getArrayIterator" service.
pub.json:closeArrayIterator	Closes the iteration. The iterator object used in an iteration cannot be reused after this service runs.
pub.mime:releaseBodyPartReferenceInTSpace -	Utility service that releases the reference to the file in the Tspace to free up disk space
pub.parquet:closeBatchIterator	Closes the Parquet iterator.
pub.parquet:documentTypeToSchema	Converts an Integration Server document type to the Parquet schema format.
pub.parquet:getBatchIterator	Reads a Parquet file and returns a batch iterator object that can be used to iterate over the records in the Parquet file.

Added Service	Description
pub.parquet:getNextBatch	Gets the next batch of Parquet records from the iterator object returned by the pub.parquet:getBatchIterator service.
pub.parquet:read	Reads a Parquet file and converts it to an IData array (Document list).
pub.parquet:write	Writes a document list (an array of IData objects) to a Parquet file
pub.security:clearAuthenticationCache	Clears the authentication cache in Integration Server.

Changed Service	Description
pub.client.sftp:login	The SFTP login service includes additional input parameters that enable you to log in without configuring the SFTP server and user aliases.
pub.client:smtp	The service includes the "useJSSE" field in the "secure" input parameter to provide TLS 1.1 and 1.2 support for outbound SMTP connections.
	The service adds support for OAuth 2.0 as an alternative authorization mechanism. For this purpose, the service now includes the "bearer" type in the "auth" field and the "token" field to accept the access token issued by the OAuth Server to Integration Server.
pub.client:restClient	The service now includes "OAUTH" and "APIKEY" fields as "type" for the "auth" input parameter. For this purpose, the service now includes the support of "token" and "apiKey" fields as "type" while using "OAUTH" and "APIKEY".
	The service also includes the support of the "secure" input parameter and the "trustStoreAlias" field so that users can specify the truststore information for certificate validation.
pub.flatFile:convertToString	The service now includes the support of the "lineSeparator" filed for the "delimiters" input parameter which specifies the character to be used to override the input record delimiter.

Changed Service	Description
pub.json:documentToJSONString	The service now includes the encodeDateAs input parameter to specify how java.util.Date instances in the document are encoded in the returned JSON.
pub.json:jsonStreamToDocument	The service now includes the unescapeSpecialChars input parameter to control whether Integration Server unescapes the special characters '\n', '\r', '\t', '\b', '\f', '\\', '\"' while parsing JSON documents.
	The service now includes the decodeNullRootAsEmpty input parameter which controls whether the service converts a null value that Integration Server retrieves from JSON content to either IData or empty IData.
pub.json:jsonStringToDocument	The service now includes the unescapeSpecialChars input parameter to control whether Integration Server unescapes the special characters '\n', '\r', '\t', '\b', '\f', '\\', '\"' while parsing JSON documents.
	The service now includes the decodeNullRootAsEmpty input parameter which controls whether the service converts a null value that Integration Server retrieves from JSON content to either IData or empty IData.
pub.mime:addBodyPart	If the data passed to this service is greater than the threshold set by the server configuration property watt.server.mime.largeDataThreshold, this service internally stores the content as a temporary file in the Tspace.
pub.mime:createMimeData	The input parameter of this service now also accepts a javax.mail.internet.MimeMessage object.
pub.mqtt:triggerSpec	The specification for MQTT trigger input now includes the *topicName* field. MQTT triggers can use wildcards to receive messages from multiple topics.
pub.string:tokenize	The service now includes the support of 'useRegex' parameter which indicates whether Integration Server must support recognizing delimiter character set for 'delim' parameter as regular expressions.

Release 10.5

Added Service	Description
pub.client:restClient	Creates and sends REST API requests over HTTP or HTTPS. Integration Server generates the REST connector services while creating a consumer REST API descriptor and calls this service while executing any REST connector service.
pub.compress:compressData	Compresses the data before sending the HTTP request using any of the specified compression schemes.
pub.compress:decompressData	Decompresses the data based on the response header of the HTTP response.
pub.datetime:build	Builds a date/time string using the specified pattern and the supplied date/time elements.
pub.datetime:increment	Increments or decrements a date and time by a specified amount of time.
pub.graphql:load	Loads data for a single key using Dataloader.
pub.graphql:loadMany	Loads data for multiple keys using Dataloader.
pub.mqtt:publish	Publishes an MQTT message to an MQTT server.
pub.mqtt:triggerSpec	Specification for the signature of an MQTT trigger service.

Deprecated Service	Replacement, if any
pub.date:dateBuild	pub.datetime:build
pub.date:dateTimeBuild	pub.datetime:build
pub.date:incrementDate	pub.datetime:increment

Changed Service	Description
pub.client:http	The default value of the Accept header is now controlled by the watt.net.default.accept server configuration parameter. Previously, the default value of the Accept header was: "image/gif, */*"

Changed Service	Description
pub.xml:documentToXMLString	Adds the input parameter preserveRefs which indicates whether the leading & (ampersand) of a well-formed entity or character reference is left as & or further encoded as & when the data is to be HTML-encoded.
pub.xml:xmlStringToXMLNode	Adds input parameter validateXML which indicates whether the service validates the incoming XML document to ensure it is well-formed XML before converting it to a node.
pub.client:restClient	The service now includes "OAUTH" and "APIKEY" fields as "type" for the "auth" input parameter. For this purpose, the service now includes the support of "token" and "apiKey" fields as "type" while using "OAUTH" and "APIKEY".
	The service also includes the support of the "secure" input parameter and the "trustStoreAlias" field so that users can specify the truststore information for certificate validation.

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Added Service	Description
pub.json.schema:validate	Validates JSON content against a JSON document type.
pub.string:isNullEmptyOrWhitespace	Determines if a string is null, empty, or only whitespace.
pub.websocket:getCookies	Retrieves the cookies that are part of the HTTP request to establish a WebSocket connection.
pub.websocket:getExtensions	Retrieves the extensions used in the request URL to establish a WebSocket connection.
pub.websocket:getHeaders	Retrieves the headers used in the request URL to establish a WebSocket connection.
pub.websocket:getPathParameter	Retrieves the path parameter used in the request URL to establish a WebSocket connection.
pub.websocket:getRequest	Retrieves the HTTP request information used to establish the WebSocket connection.

Added Service	Description
pub.websocket:getQueryParameters	Retrieves the query parameters used in the request URL used to establish a WebSocket connection.
pub.websocket:getQueryParameter	Retrieves the value of specific query parameter information in the request URL used to establish a WebSocket connection.
pub.websocket:getSubProtocols	Retrieves the sub protocols used in the request URL to establish a WebSocket connection.
pub.websocket:ping	Sends a ping message containing the given application data to the remote endpoint after establishing the connection.
pub.websocket:pong	Sends back an unsolicited pong message with the exact application data as the ping for the WebSocket session.

Removed Service	Replacement, if any
pub.vcs* services	Use the local service development feature (Local Version Control Integration) to check package elements and their supporting files into and out of a version control system (VCS) directly from Designer.

Deprecated Service	Replacement, if any
pub.json:validate	Use pub.json.schema:validate to validate JSON content against a JSON document type.
pub.soap.utils:resetWSDEffectivePolicy	None. The service is deprecated because the service applies to web services that run in pre-8.2 compatibility mode only. The ability to run in pre-8.2 compatibility mode is deprecated as of Integration Server 10.4 due to the deprecation of the web services implementation introduced in version 7.1

Deprecated Service	Replacement, if any
pub.soap.utils:setWSDEffectivePolicy	None. The service is deprecated because the service applies to web services that run in pre-8.2 compatibility mode only. The ability to run in pre-8.2 compatibility mode is deprecated as of Integration Server 10.4 due to the deprecation of the web services implementation introduced in version 7.1
pub.string:isNullOrBlank	pub.string:isNullEmptyOrWhitespace

Changed Service	Description
pub.client:websocket	Adds input parameters cookies, extensions, and subProtocols which are to be parts of the HTTP request used to establish a WebSocket connection.
pub.jms:reply	When sending a JMS message to Universal Messaging, Integration Server sets the JMSMessageID.
pub.jms:send	When sending a JMS message to Universal Messaging, Integration Server sets the JMSMessageID.
pub.jms:sendAndWait	When sending a JMS message to Universal Messaging, Integration Server sets the JMSMessageID.
pub:oauth:getAccessToken	Supports requests for an access token for the Resource Owner Password Credentials (ROPC) grant type for a public client. Previously, only confidential clients could obtain an access token for the ROPC grant type.
pub:oauth:getToken	Supports requests for an access token for the Resource Owner Password Credentials (ROPC) grant type for a public client. Previously, only confidential clients could obtain an access token for the ROPC grant type.

Release 10.3

Added Service	Description
pub.flow:getLastFailureCaught	Returns information about the last failure that was caught by a CATCH step.

Changed Service	Description
pub.client:http	A new input parameter *trustStore* has been added which specifies the alias for the truststore that contains the list of certificates that Integration Server uses to validate the trust relationship.
pub.mime*	The multipart MIME messages created by the pub.mime:* services now strip line folding from the header fields.
pub.oauth:getAccesssToken	The service now supports the client credentials grant and the resource owner password credentials grant types.
pub.oauth:getToken	The service now supports the client credentials grant and the resource owner password credentials grant types.

Release 10.2

Added Service	Description
pub.client:websocket	Establishes a WebSocket connection to the URL captured in the identified WebSocket client endpoint.
pub.oauth:getToken	Requests an access token from the Integration Server acting as the authorization server. This service replaces the pub.oauth:getAccessToken and pub.oauth:refeshAccessToken services. Providing a single OAuth token endpoint for requesting an access token conforms to the OAuth standard, RFC 6749.
pub.oauth:removeExpiredAccessTokens	Removes expired access tokens from the database.
pub.websocket:close	Closes the WebSocket connection.
pub.websocket:disconnect	Closes the WebSocket connection abruptly.
pub.websocket:onBinary	Specification to use as the signature for a callback service related to WebSocket server or client endpoint that handles a binary payload.
pub.websocket:onClose	Specification to use as the signature for a callback service that gets invoked when a WebSocket session is closed gracefully or disconnected.

Added Service	Description
pub.websocket:onConnect	Specification to use as the signature for a callback service that gets invoked when a WebSocket session is successfully established.
pub.websocket:onError	Specification to use as the signature for a callback service that gets invoked when an error is encountered, resulting in WebSocket session termination.
pub.websocket:onText	Specification to use as the signature for a callback service that handles a text payload.
pub.websocket:send	Sends a message on a connected WebSocket session.

Deprecated Service	Replacement, if any
pub.jms.wmjms:receiveStream	None. webMethods Broker is deprecated, resulting in the deprecation of this service.
pub.jms.wmjms:sendStream	None. webMethods Broker is deprecated, resulting in the deprecation of this service.
pub.oauth:getAccessToken	pub.oauth:getToken
pub.oauth:refreshAccessToken	pub.oauth:getToken

Changed Service	Description
pub.client:http handling of a 307 or 308 status code	When the pub.client:http service sends a POST, PUT, DELETE, or PATCH request and receives a 307 or 308 response status code from an HTTP server, the service no longer changes the request method to GET when redirecting.
pub.publish:envelope	The *uuid* field can now be set in the document envelope when publishing a document to Universal Messaging using the pub.publish:publish service. Previously, the *uuid* field was read-only.

Release 10.1

Added Service	Description
pub.json:validate	Validates JSON content against a JSON schema.

Added Service	Description
pub.oauth:introspectToken	Checks if an access token or refresh token generated by an Integration Server acting as an authorization server is active.
pub.oauth:revokeToken	Revokes a token issued by an Integration Server acting as an authorization server
pub.xmldata:getGroupObjects	Returns information about the objects and their tags in a group value. This service is useful primarily when the structure of data is not known in advanced and must be discovered. Examples include any wildcard content, anyType content, substitution groups, and XmlData that was created without using an XML document type.
pub.xmldata.getGroupValues	Returns information about the values and their tags in a group value. This service is useful primarily when the structure of data is not known in advanced and must be discovered. Examples include any wildcard content, anyType content, substitution groups, and XmlData that was created without using n XML document type.
pub.xmldata:queryXMLNode	Queries an XML node and returns the results as XMLData.

Removed Service	Replacement, if any
pub.restV2:listAllRESTResources	None. REST V2 resources are visible in the Package Navigator view of Designer.

Changed Service	Description
pub.jms:sendBatch	The pub.jms:sendBatch service can now be used with Universal Messaging as the JMS provider.
pub.report*	Integration Server now executes the template file and any services therein, using the credentials of the user who invoked the pub.report* service.
pub.xml:loadEnhancedXMLNode	The inputProcessing\supportDTD input parameter now has a default value of false.

The inputProcessing\isSupportingExternalEntities input parameter now has a default value of false. |

Changed Service	Description
pub.xml:XMLStringToEnhancedXMLNode	The inputProcessing\supportDTD input parameter now has a default value of false.
	The inputProcessing\isSupportingExternalEntities input parameter now has a default value of false.

Release 10.0

Added Service	Description
pub.flow:HTTPRequest	Document type that represents information about the HTTP request received by Integration Server.
pub.flow:HTTPResponse	Document type that specifies the HTTP response information to be returned by Integration Server to the client.
pub.restV2:listAllRESTResources	Lists the REST resources configured using the URL template-based approach for a specified Integration Server service or for all the Integration Server services in a specified package. These REST resources are invoked using the restv2 directive.

Removed Service	Replacement, if any
pub.event.nerv:eventToDocument	No replacement service because the pub.event.routing:subscribe service, which replaces the deprecated pub.event.nerv:subscribe service, handles the conversion of the incoming JMS message into an IS document (IData).
pub.event.nerv:send	pub.event.routing:send
pub.event.nerv:subscribe	pub.event.routing:subscribe
pub.event.nerv:unsubscribe	pub.event.routing:unsubscribe

Changed Service	Description
pub.client:ftp	Updated the input parameter *secure* to include *useJSSE* as a child parameter.
pub.client.ftp:login	Updated the input parameter *secure* to include *useJSSE* as a child parameter.

Changed Service	Description
pub.client:http	You can now supply a value in the data/bytes input variable when the method input variable is DELETE.
pub.security.xml:signXML	Added input parameter isDetached to indicate whether the signature should be detached or not.
	Added input parameter keyName which is the name that is used by the signer to communicate a key identifier to the recipient.
	Added input parameter keyNameValue to indicate whether to include the key value (RSAKeyValue or DSAKeyValue), based on the certificate used for signing. The KeyValue element contains a single public key that can be used in validating the signature.
	The certData input parameter now includes X509_CRL as an option.

Release 9.12

Added Service	Description
pub.cache.serviceResults:addCacheEntry	Adds cached entry into service results for the service without executing the actual service. This service can be useful to perform bulk load of service results at Integration Server startup.
pub.cache.serviceResults:listServiceCache	Returns a list of the cached service results for a particular service.
pub.cache.serviceResults:resetServerCache	Resets the cache for all services in the service results cache, resulting in the removal of all cached service results for all services from the service results cache.
pub.cache.serviceResults:resetServiceCache	Resets the cache for specific service, resulting in the removal of cached service results for the service.

Changed Service	Description
pub.client:http	The default value of the *useJSSE* parameter is now null, which allows the watt.net.ssl.client.useJSSE server configuration property to determine the default behavior for outbound HTTPS connections.
	Added input parameter *delegation* to allow a user to execute a service on behalf of other user.
	Added input parameter *requestDelegatableToken* to specify if you want to request for a forwardable ticket granting ticket to send to the intermediary. The intermediary can use this forwardable ticket granting ticket for Kerberos delegation.Integration Server, which the server can use for delegation
pub.client.ldap:search	Added input parameter *pageSize* to set the number of entries to return in a page. Added input and output parameter *ldapCookie* which contains the index of the page count for the search.
pub.client.ftp:login	Added input parameter *useJSSE* to allow use of JSSE for creating outbound FTPS connections.
pub.client:soapClient	Added input parameter *useJSSE* to allow use of JSSE for outbound web service invocation.
pub.date*	Previously, if a value was not specified for the locale input parameter, Integration Server used the locale from the session used by the client that invoked the service. Now, Integration Server uses the value of the watt.server.session.locale.ignore server configuration parameter to determine whether the locale is obtained from the session used by the client that invoked the service or if the locale is the locale of Integration Server.
pub.flow:setResponse2	Added input variable responseStreamTransferEncoding to use chunked transfer encoding for the response and include the "Transfer-Encoding: chunked" response header.
pub.json:jsonStreamToDocument	Added input parameter decodeRealAsString to converts real numbers in the jsonStream to String.
pub.json:jsonStringToDocument	Added input parameter decodeRealAsString to converts real numbers in the jsonStream to String.

Changed Service	Description
pub.security:userInfoSpec	The error input parameter is now named userInfoError.

Release 9.10

Added Service	Description
pub.date:compareDates	Compares two dates.
pub.date:incrementDate	Increments a date by a specified period.
pub.event.routing:eventAcknowledgement	Defines the input signature for a callback service that processes acknowledgments sent by the Event Routing framework.
pub.security:userInfoSpec	Specification for UserInfo service that performs custom processing based on the personally identifiable information in the OpenID Connect UserInfo token.
pub.string:compareStrings	Performs a case-sensitive comparison of two strings and indicates whether the strings are identical.
pub.string:isAlphanumeric	Determines whether a string consists entirely of alphanumeric characters (in the ranges A–Z, a–z, or 0–9).
pub.string:isDate	Determines whether a string follows a specified date pattern.
pub.string:isNullOrBlank	Checks a string for a null or a blank value.
pub.string:isNumber	Determines whether the contents of a string can be converted to a float value.
pub.string:substitutePipelineVariables	Replaces a pipeline variable with its corresponding value.

Changed Service	Description
pub.client:http	The *method* input parameter now supports the patch method.
	The pub.client:http service now includes fields for supplying Kerberos information that Integration Server uses to acquire a Kerberos ticket to include in the outbound service request. Specifically, the *auth* input parameter now contains a *kerberos* document in which you can specify *jaasContext*, *clientPrincipal*, *clientPassword*, *servicePrincipal*, and *servicePrincipalForm*.
	If the remote server redirected pub.client:http to a different location, *encodedURL* contain the URL that pub.client:http submitted to the server to which it was redirected.
pub.event.routing:send	New input parameters *isAsync*, *service Name*, and *runAsUser*.
pub.jms:send	Added the *JMSMessage/header/replyTo* input parameter which can be used to specify a destination for replies without actually needing to wait for replies.
pub.security.keystore.pkcs7:sign	New input parameters *dataAsStream* and *signatureAsStream*.
pub.security.pkcs7:verify	New input parameters *signatureAsStream* and *dataAsStream*.
	New output parameter *contentAsStream*.
pub.security.util:createMessageDigest	New input parameter *inputAsStream*.
	New output parameter *outputAsStream*

10.0 Added, Removed, Deprecated, or Changed Parameters

A release is listed in this section only if changes occurred in that release.

Release 10.11

Added Parameter	Description
watt.client.data.blockSize	Defines the buffer size used by Integration Server when parsing XML. Previously, this value was set to 8192 bytes and could not be modified.
watt.client.data.classLoader.legacy	Specifies whether Integration Server caches classes when decoding persisted XML. Set to true to have Integration Server cache classes during decoding of persisted XML data. Caching classes when decoding persisted XML data might offer performance improvements when decoding large and complex XML data.
watt.client.data.maxToStringLength	Specifies the maximum length of the String produced by IData.toString(). Limiting the length of the String produced by IData.toString() may improve performance.
watt.client.hashcode.legacy	Specifies whether Integration Server uses the legacy implementation or current implementation for determining how object equality is performed for IData objects in Integration Server. The current implementation might improve performance for flow services that process large and complex data.
watt.client.ftp.session. logoutOnServiceCompletion	Specifies whether an FTP(S) session created by the pub.client.ftp:login service closes automatically or not when the top-level service execution completes.
watt.client.sftp.session. logoutOnServiceCompletion	Specifies whether an SFTP session created by the pub.client.sftp:login service closes automatically or not when the top-level service execution completes.
watt.net.http.clientSession.idleTimeout	Specifies how many milliseconds a newly created outbound HTTP/S session can be idle before the session times out and can be removed by the session sweeper.
watt.net.http.followRedirect	Specifies whether Integration Server automatically follows redirection when an outbound HTTP request receives a response code is between 300 and 400.
watt.net.http.redirect.performSSRFcheck	Specifies whether Integration Server performs an IP address and protocol check to prevent Server-Side Request Forgery (SSRF) when following a redirection request.

Added Parameter	Description
watt.server.grpc.clientCertRequired	Specifies whether the gRPC server requests the use of client certificates for authentication or requires them.
watt.server.grpc.enable.TLS	Specifies whether the gRPC server uses TLS for data encryption and requires client certificates for inbound gRPC requests.
watt.server.grpc.maxConcurrentCalls	Specifies the maximum number of gRPC requests that the gRPC server can process concurrently.
watt.server.grpc.maxMessageSize	Specifies the maximum size of a message, measured in bytes, for an inbound gRPC request.
watt.server.idatacoder.legacy	Specifies whether the current version or the legacy version of the IDataBinCoder is used for encoding documents using the binary protocol. The current version may be significantly faster and slightly more memory efficient for large, complex documents.
watt.server.jdbc.datadirect. useJaasSubjectForKerberos	Specifies whether Integration Server uses the Subject in a JAAS configuration to establish a connection to the database using Kerberos. Set this parameter to true when there are JAAS conflicts where the Integration Server JAAS configuration is wiped out by another component
watt.server.jndi.searchresult.pageSize	Specifies the batch size of user groups that Integration Server retrieves from the connected LDAP servers
watt.server.ldap.checkLocalUserInLDAP	Specifies whether Integration Server should authenticate a local user through the connected LDAP servers or not.
watt.server.ldap.groupSearchFilter	Specifies the filter that Integration Server and SoftwareAG Platform Manager (SPM) plugin use when searching for user groups in the connected LDAP servers. This parameter helps to narrow down the search results and has no default value.
watt.server.oauth.requirePKCE	Specifies whether PKCE is required for all public OAuth clients using the authorization code grant.
watt.server.metering.simulator.enabled	Specifies whether the metering simulator is enabled or disabled.

Added Parameter	Description
watt.server.meteringAgent.logInterval	Specifies the interval, in minutes, between executions of the system task Metering Agent Diagnostic Log which performs a "dry run" of sending data to the webMethods Metering Server
watt.server.removeDefaultMWSRolesInISACL	Specifies whether Integration Server removes the default MWS roles ("My WebMethods Administrator" and "My WebMethods Users") from an ACL.
watt.server.security.createDefaultServicesOnPorts	Specifies whether Integration Server adds a default list of internal and built-in services to the allow list of a port configured to deny access.
watt.server.securityLog.eg.enableExternalClientIP	Specifies whether the IP address of the external client that invokes a service in Integration Server through Enterprise Gateway is recorded in the security log or not.
watt.server.session.sweeperInterval	Specifies the interval, measured in milliseconds, between execution or the session sweeper task.
watt.server.stats.clearStatsOnLogRotate	Specifies whether Integration Server clears service error metrics and system error metrics when the server log or stats log rotates.
watt.server.storage.optimizeForStandalone	Whether the optimization for the pub.storage implementation is used. When set to true, Integration Server caches database keys in local memory, which may result in a small performance improvement for pub.storage.
watt.um.clientTraceLog.folderLogSize	Specifies the maximum size in MB of all the log files for event lifecycle logging.
watt.um.clientTraceLog.level	Specifies the logging level for a trace logger used with event lifecycle logging.
watt.um.clientTraceLog.stores	Comma-separated list of the message stores, specifically queue names or channel names, for which event lifecycle logging is performed.
watt.um.clientTraceLog.storeLogSize	Specifies the maximum size in MB of the trace log file for an individual message store for event lifecycle logging.

Changed Parameter	Description
watt.client.data.blockSize	The default value is now 32768. Previously, it was 8192.
watt.client.data.maxToStringLength	The default value is now 1024. Previously, the default value was 65536.
watt.net.jsse.client.disabledProtocols	The default value now includes TLSv1.1.
watt.net.jsse.server.disabledProtocols	The default value now includes TLSv1.1.
watt.server.defaultPackage	Specifies the name of the default package. If this value is not set, Integration Server uses WmAdmin as the default package. If you start Integration Server in safe mode, WmAdmin becomes the default value regardless of the value of this parameter. Previously, the default value was WmRoot.
watt.server.http.allowOptions	This parameter no longer requires a restart for changes to take effect.
watt.server.httplog	Possible values for this parameter now include common, combined, and custom. Previously the only allowed values were true, false, or empty. Additionally, this parameter no longer requires a restart for changes to take effect.
watt.server.ldap.retryWait	The default value is changed from 0 to 2000 (milliseconds) to restore the connection in case of transient errors.
watt.server.ldap.retryCount	The default value is changed from 0 to 5 to restore the connection in case of transient errors.

Release 10.7

Added Parameter	Description
watt.core.nodeIterator.retainFailures	Specifies whether the NodeIterator retains a skipped XML node in moving-window mode.
watt.net.jsse.client.disabledProtocols	Specifies the list of disabled SSL and TLS protocol versions when Integration Server acts as a client making outbound requests.
watt.net.jsse.server.disabledProtocols	Specifies the list of disabled SSL and TLS protocol versions when Integration server acts as the server handling inbound requests.

Added Parameter	Description
watt.net.ssl.email.client.useJSSE	Controls the use of JSSE for all the outbound SMTP connections from Integration Server.
watt.security.min.bytesPerSecond	Specifies the minimum rate at which data may arrive at Integration Server. If data arrives more slowly than the watt.security.min.bytesPerSecond value, Integration Server rejects the request with a 408 Request Timeout error and then closes the connection. Note: The watt.sercurity.min.bytesPerSecond parameter was introduced in PIE-53144 which was included in IS_10.3_Core_Fix2, IS_10.1_Core_Fix9, IS_9.12_Core_Fix19, IS_9.10_Core_Fix16, and IS_9.10_Core_Fix16 and had a slightly different behavior. See the watt.security.min.bytesPerSecond description in the Changed Parameter table, below.
watt.server.audit.journal.truncated	The logging level at which Integration Server writes the full value of a truncated field from an audit record to the server log. Integration Server only write the full field to the server log when the server logging facility 0095 Audit Log Manager is set to the same level as watt.server.audit.journal.truncated or a more verbose level.
watt.server.clientTimeoutRedirect	Specifies how Integration Server Administrator behaves when the browser session times out.
watt.server.http.forwardableHeaders	The headers that Integration Server collects from inbound requests and includes in outbound requests.
watt.server.http.forwardHeaders	Specifies whether Integration Server supports distributed tracing by collecting the headers used by Istio Service Mesh and opentracing.
watt.server.jdbc.datadirect. useJaasSubjectForKerberos	Specifies that Integration Server uses the Subject in the Integration Server JAAS configuration when using Kerberos with JDBC pool connections.

Added Parameter	Description
watt.server.json.decodeNullRootAsEmpty	Converts a null data that Integration Server retrieves from JSON content to either IData or empty IData.
watt.server.json.encodeDateAs	Specifies how java.util.Date objects are formatted by Integration Server, including IDataJSONCoder.encode() and the pub.json:documentToJSONString service.
watt.server.json.iterator.maxBatchSize	Specifies the maximum number of array elements that the pub.json:getNextBatch service can retrieve.
watt.server.json.iterator.maxConcurrentRequests	Specifies the maximum number of concurrent requests for JSON iterator that Integration Server should process.
watt.server.jms.trigger.caching.pollingInterval	Specifies the length of time, measured in milliseconds, between polling requests to Universal Messaging to retrieve messages for a JMS trigger that uses prefetch caching (which is also called consumer caching).
watt.server.json.iterator.minBatchSize	Specifies the minimum number of array elements that the pub.json:getNextBatch service can retrieve.
watt.server.messaging.deliverNotificationErrors	Specifies whether Integration Server generates and delivers pub.publish.notifcation.error messages.
watt.server.messaging.trigger.startup. useServerThread	Specifies whether the thread used to start and run a webMethods messaging trigger that receives messages from Universal Messaging counts toward the thread usage limit established by the Maximum Threads value for document processing.
watt.server.mime.largeDataThreshold	The payload size at which a payload greater than the parameter value results in an execution of the pub.mime:getEnvelopeStream service returning a javax.mail.internet.MimeMessage object instead of an InputStream.
watt.server.mqtt.producer.maxInflight	Specifies the maximum number of MQTT messages that can be published at one time using the same MQTT connection alias.

Added Parameter	Description
watt.server.oauth.log.authErrors	Specifies whether Integration Server writes OAuth authorization failures to the error log.
watt.server.ping	Specifies the number of milliseconds that the Pinger thread created for the pub.remote:invoke service waits between sending wm.sever.ping requests.
watt.server.ports.ipaccess. ignoreXForwardedForHeader	Specifies whether Integration Server uses or ignores the IP address in the X-Forwarded-For (XFF) header of a request when determining whether to allow or deny access to the port. This parameter applies to requests received on an Enterprise Gateway external port and API Gateway external port only.
watt.server.rest. addHTTPMethodToInputPipeline	Specifies whether Integration Server must add the '$httpMethod' input variable with the requested HTTP method in the input pipeline while processing a REST request.
watt.server.securePort	Specifies the port number of the default secure (HTTPS) port on Integration Server.
watt.server.securityLog. ignoreXForwardedForHeader	Specifies whether Integration Server ignores the X-Forwarded-For request header and uses the IP address of the proxy server as the client ID.
watt.server.securityLog.logAnonymousRequests	Controls whether anonymous requests are written to the security log.
watt.server.smtp.userName	Specifies the username to be used by Integration Server to log in to the SMTP server.
watt.server.stats.logfile.csv	Specifies the format of the statistics log.
watt.server.stats.packages.exclude	Specifies the list of packages whose services are excluded from the request statistics.
watt.server.transaction.ignore.exception	Specifies whether Integration Server ignores exceptions that occur when committing an implicit or explicit transaction.

Added Parameter	Description
watt.server.trigger.shutdown.timeout	Specifies the number of seconds that Integration Server wait for trigger services to finish executing after disabling a concurrent webMethods messaging trigger that retrieves messages from Broker.
watt.server.xmlCoder. getUndefinedDataTypeClassName	Determines whether the class name of an unsupported data type is included in the XML document produced by com.wm.util.coder.XMLCoder.encode, the pub.document:documentToXMLValues service, and the deprecated service pub.record:XMLValuesToRecord, the IData object returned by the pub.document:XMLValuesToDocument service and the deprecated pub.record:XMLValuesToRecord service, and the Values object returned by com.wm.util.coder.XMLCoder.decode.
watt.serverlog.includeThreadID	Specifies whether the log messages written to the server log include the thread ID of the thread performing the action.
watt.wmcloud.listeners.maxIdleTime	Determines the length of time an on-premise listener for a webMethods Cloud account can be idle before it gets recreated.
watt.wmcloud.listeners.monitoringInterval.	Determines the interval at which monitoring thread executes to ensure that each enabled webMethods Cloud account has an active listener on the on-premise Integration Server.

Removed Parameter	Replacement, if any
watt.net.jsse.client.enabledProtocols	watt.net.jsse.client.disabledProtocols
watt.net.jsse.server.enabledProtocols	watt.net.jsse.server.disabledProtocols

Deprecated Parameter	Replacement, if any
watt.ssh.jsch.kex	The Key Exchange Algorithms can be included and reordered in the "Preferred Key Exchange Algorithms" list and excluded by moving them to the "Excluded Key Exchange Algorithms" list.

Deprecated Parameter	Replacement, if any
watt.ssh.jsch.ciphers	All the ciphers can be included and reordered in either the "Preferred Ciphers S2C" or "Preferred Ciphers C2S" lists. Similarly, they can be excluded from either the "Excluded Ciphers S2C" or "Excluded Ciphers C2S" list.
watt.ssh.jsch.mac_s2c	The Server to Client MAC algorithms can be included and reordered in the "Preferred MAC Algorithms S2C" list and can be excluded by moving them to the "Excluded MAC Algorithms S2C" list.
watt.ssh.jsch.mac_c2s	The Client to Server MAC algorithms can be included and reordered in the "Preferred MAC Algorithms C2S" list and can be excluded by moving them to the "Excluded MAC Algorithms C2S" list.

Changed Parameter	Description
watt.adminapi.returnExceptions	The default value of this parameter is now false.
watt.security.min.bytesPerSecond	In cases where the reading of the bytes is controlled by a customer's application or by a third-party library, Integration Server is not reading the incoming bytes and cannot monitor the rate at which they arrive. Integration Server does not enforce the watt.security.min.bytesPerSecond value in these scenarios: - When the request payload is JSON and watt.server.http.jsonFormat is stream - When the request payload is XML and watt.server.http.xmlFormat is stream - When the request contains no Content-type header - When enhanced XML parsing is being used - When using the pub.xml NodeIterator services - For SOAP requests
watt.server.commonmessaging.trigger. stopRequestTimeout	The default value is now 3 seconds instead of 1.

Changed Parameter	Description
watt.server.package.maxSizeMB	The value of this parameter is now a long. Previously, it was an int.
watt.server.threadPool.cloudRequests	The default value is now 5 instead of 75.

Release 10.5

Added Parameter	Description
watt.adminapi.group.readOnly	Specifies the name of the user group whose members have read-only access to the Integration Server Administrator API.
watt.adminapi.log.clientErrors	Specifies whether client errors that occur during execution of REST resources in the Administrator API are written to the error log.
watt.adminapi.returnExceptions	Specifies whether the HTTP response sent when the Integration Server Administrator API encounters an exception includes a stack trace in the response body.
watt.core.schema.anonymousCyclic ExtensionDepth	Specifies the nesting level when creating an IS schema from an XML schema definition that contains an anonymous complex type definition that references its own parent complex type extension.
watt.net.default.accept	Specifies the default value of the Accept header when an Accept header is not present in the headers input parameter to the pub.client:http service.
watt.net.ssl.server.sessionlog	Specifies whether Integration Server logs the SSL session information.
watt.net.ssl.server.sessionlog.maxFileSize	Specifies the maximum size of the inboundSSLSessions.log file in megabytes (MB).
watt.net.ssl.server.sessionlog.cacheLogEntries	Specifies whether Integration Server tracks the SSL session log entries in cache.
watt.net.ssl.server.sessionlog.cachedLogEntries. expiryTime	Specifies, in seconds, how often Integration Server checks for and removes the expired SSL session log entries from its cache.

Added Parameter	Description
watt.net.ssl.server.sessionlog.file	Specifies either a fully qualified or relative path to the file to which Integration Server writes the SSL session information.
watt.net.ssl.server.sessionlog.prettyPrint	Specifies whether the SSL session log entry is formatted with carriage returns and indentation to make the SSL session log easier to read.
watt.net.ssl.server.sessionlog.includeTimestamp	Specifies whether the SSL session log entries are added along with the timestamp.
watt.server.commonmessaging.connection. retryPeriod	Specifies the length of time, in seconds, that Integration Server waits between connection attempts when a connection to the MQTT server fails.
watt.server.commonmessaging.trigger. monitoringInterval	Specifies the interval, measured in seconds, at which Integration Server executes resource monitoring services for MQTT triggers
watt.server.commonmessaging.trigger. restartTaskRetryCount	Specifies the maximum number of retry attempts the trigger restart task makes to start MQTT triggers automatically.
watt.server.commonmessaging.trigger. restartTaskRetryInterval	Specifies the number of seconds that the trigger restart task waits between attempts to restart MQTT triggers.
watt.server.commonmessaging.trigger. reuseSession	Indicates whether instances of an MQTT trigger use the same session on Integration Server.
watt.server.commonmessaging.trigger. stopRequestTimeout	Specifies the maximum amount of time, measured in seconds, that Integration Server waits after an MQTT trigger is disabled before forcing the MQTT trigger to stop processing messages.
watt.server.http.interceptor.outbound.enabled	Enables the use of an outbound HTTP interceptor.
watt.server.http.interceptor.outbound.impl	Fully qualified name of the class that implements the outbound interceptor interface.
watt.server.http.request.supportCompression	Specifies whether Integration Server needs to support HTTP request compression.
watt.server.http.Content-Security-Policy a	Sets the HTTP security header Content-Security-Policy in the responses to requests for Accessing the Integration Server Administrator. Use this property to detect and mitigate attacks such as Cross Site Scripting (XSS) and data injection.

Added Parameter	Description
watt.server.http.X-Permitted-Cross-Domain-Policies	Sets the HTTP security header X-Permitted-Cross-Domain-Policies, which informs clients what cross-domain policies they can use for accessing the Integration Server Administrator.
watt.server.http.response.supportCompression	Specifies whether Integration Server needs to support HTTP response compression.
watt.server.oauth.token.endpoint.internal.requireSecret	Specifies whether Integration Server ensures that authorization code provided by a confidential client invoking the OAuth token endpoint service was issued to the confidential client when the OAuth token endpoint service is invoked directly because it is on the same Integration Server acting as the OAuth authorization server.
watt.server.portAccess.axis2	Specifies whether Integration Server verifies that an Axis2-based web services can be accessed through a port.
watt.server.portStateless	Specifies a comma-separated list of the port numbers for the ports on Integration Server that are stateless.
watt.server.service.blacklist	Specifies, using a comma-separated list or a file, the services on the service blacklist and/or the interfaces whose services are on the service blacklist.
watt.server.soap.validateInput	Specifies whether a validation error occurs when an inbound SOAP request includes fields that are not declared in the service input signature.
watt.server.systemtasks.debug	Enables debug logging related to system tasks. The logs are written to server.log under the logging facility User Task Scheduler and include information such as when a task got created, when it got terminated, and for recurring tasks, when it will run again.
watt.server.threadPool.cloudRequests	Specifies the maximum percentage of the server thread pool that can be used for processing Integration Cloud requests concurrently.
watt.server.ws.security.usernameTokenTTL	Specifies, at the global level, the permitted time difference between the time when the UsernameToken was created and the time when it reaches the server.

Added Parameter	Description
watt.server.ws.security.usernameTokenFutureTTL	Specifies, at the global level, the permitted time difference for wsu:Created elements that have a timestamp in the future with respect to the Integration Server clock.
watt.ssh.jsch.kex	Specifies a comma-separated list of the key exchange algorithms that will appear in the Preferred Key Exchange Algorithms list when creating or editing an SFTP server alias.

Changed Parameter	Description
watt.ssh.jsch.ciphers	Previously, the parameter only supported adding more ciphers. Now, to remove a cipher, delete the cipher from the parameter value.
watt.ssh.jsch.mac_c2s	Previously, the parameter only controlled the order of MAC algorithms for client to server transmission. Now, to disable use of a MAC algorithm, delete it from the parameter value.
watt.ssh.jsch.mac_s2c	Previously, the parameter only controlled the order of MAC algorithms for server to client transmission, respectively. Now, to disable use of a MAC algorithm, delete it from the parameter value.

Release 10.4

Added Parameter	Description
watt.core.schema.generateObsoleteDocumentTypeNames	Specifies whether Integration Server uses the naming convention that existed prior to version 8.2 when generating document types for complex types referenced from a global element declaration.
watt.core.transientStore.logExceptions	Specifies whether Integration Server logs exceptions thrown by the transient store that might cause the consumer thread to terminate. This can aid in diagnosing problems with an internal store used by the resubmission process.

Added Parameter	Description
watt.frag.keep.original.servicename	Specifies whether Integration Server retains the original service name for input fields while fragging or compiling a Java service.
watt.net.clientKeepaliveAgingLimit	Specifies how long a socket in a client connection pool is kept alive, measured in seconds.
watt.net.clientKeepaliveUsageLimit	Specifies the maximum number of usages for a socket in a client connection pool.
watt.server.audit.file.fieldDelimiter	Specifies the character sequence to use to delimit fields within a log record in a file-based audit log
watt.server.audit.file.recordDelimiter	Specifies the character sequence to use to delimit records in a file-based audit log.
watt.server.audit.stdout.fieldDelimiter	Specifies the character string to delimit audit log fields within a log entry when the audit log is written to the console (STDOUT).
watt.server.audit.stdout.recordDelimiter	Specifies the character string to delimit the audit log records when the audit logger is written to the console (STDOUT).
watt.server.package.maxSizeMB	Specifies the maximum expanded size of a package that can be installed, measured in megabytes.
watt.server.serviceMonitor.queryOnServerId	Specifies monitoring capabilities for the entire stateful cluster and not just for a single instance of the cluster.
watt.server.SOAP.retainUndeclaredNamespace	Specifies whether Integration Server retains namespaces from an xsd:any element when decoding a SOAP request or SOAP response.
watt.server.search.fast	Specifies whether Integration Server must process the value assigned to the pipeline variable while loading a flow service thereby enhancing the search operation and displaying the search results much faster.

Deprecated Parameter	Replacement, if any
watt.server.package.pre82WSD. loadExternalResources	None. The web services implementation that handles web services that run in pre-8.2 compatibility mode is deprecated, specifically the implementation introduced in Integration Server version 7.1. As a result, this parameter is deprecated.
watt.server.setResponse.pre82Mode	None. The web services implementation that handles web services that run in pre-8.2 compatibility mode is deprecated, specifically the implementation introduced in Integration Server version 7.1. As a result, this parameter is deprecated.
watt.server.soap.convertPlainText HTTPResponseIntoSOAPFault	None. The web services implementation that handles web services that run in pre-8.2 compatibility mode is deprecated, specifically the implementation introduced in Integration Server version 7.1. As a result, this parameter is deprecated.
watt.server.SOAP.pre82WSD. ignoreVersionMismatch	None. The web services implementation that handles web services that run in pre-8.2 compatibility mode is deprecated, specifically the implementation introduced in Integration Server version 7.1. As a result, this parameter is deprecated.
watt.server.ws.responseTNS.from.request	None. The web services implementation that handles web services that run in pre-8.2 compatibility mode is deprecated, specifically the implementation introduced in Integration Server version 7.1. As a result, this parameter is deprecated.

Changed Parameter	Description
watt.server.cors.allowedOrigins	To make it easier to specify a long list of allowed URIs, Integration Server now allows specifying a file as the value for this parameter.
watt.server.cors.exposedHeaders	This parameter is no longer case-sensitive.

Changed Parameter	Description
watt.server.netEncoding	When the pub.client:http service submits a password digest for authentication (that is, the auth/type field is set to Digest) and the HTTP server response includes the header field "Content-Type" but does not contain the charset parameter, uses the value of the watt.server.netEncoding server configuration parameter as the default character set.
watt.server.SOAP.ignoreMissingResponseHeader	This parameter now ignores missing required headers for returned SOAP faults.

Release 10.3

Added Parameter	Description
watt.net.jsse.server.SSLSessionTimeout	Specifies the amount of time in seconds for which Integration Server waits before timing out and removing an SSL session from the SSL cache.
watt.net.jsse.server.useCipherSuitesOrder	Specifies whether the local cipher suites preference should be honored by Integration Server during the SSL/TLS handshake when Integration Server acts as the SSL/TLS server and requires the use of JSSE
watt.security.kerberos.client.useSPNEGO	Specifies whether Integration Server generates a SPNEGO-based Kerberos ticket for all outbound requests that use Kerberos authentication.
watt.security.max.contentLength	Specifies the maximum size limit of the payload for an HTTP request.
watt.security.max.headerLength	Specifies the maximum length of the header for an HTTP request.
watt.security.max.urlLength	Specifies the maximum length of the URL for an HTTP request.

Added Parameter	Description
watt.server.autodeploy.enabled	Specifies whether automatic deployment of packages is enabled or disabled for Microservices Runtime.
	Note: The automatic package deployment feature is available by default for Microservices Runtime. To use the automatic package deployment feature with Integration Server, your Integration Server must have additional licensing.
watt.server.autodeploy.interval	Specifies the interval, measured in minutes, at which Microservices Runtime executes the autodeploy system task.
	Note: The automatic package deployment feature is available by default for Microservices Runtime. To use the automatic package deployment feature with Integration Server, your Integration Server must have additional licensing.
watt.server.autodeploy.alwaysUseHotDeployment	Specifies whether Microservices Runtime always uses hot deployment for automatic deployment of packages.
	Note: The automatic package deployment feature is available by default for Microservices Runtime. To use the automatic package deployment feature with Integration Server, your Integration Server must have additional licensing.
watt.server.checkPath.restorePipelineFromFile	Specifies whether Integration Server verifies that the value of the filename input parameter supplied to pub.flow:restorePipelineFromFile service is in the allowedReadPaths parameter of the file access control configuration file (fileAccessControl.cnf).
watt.server.checkPath.savePipelineToFile	Specifies whether Integration Server verifies that the value of filename input parameter supplied for the pub.flow:savePipelineToFile service is in the allowedWritePaths parameter of the file access control configuration file (fileAccessControl.cnf).

Added Parameter	Description
watt.server.coder.responseAsXML	Specifies how Integration Server receives the XML response for any REST API request -- in proper XML format or in converted XML format containing IData objects.
watt.server.jms.trigger.startupFailure.restartTaskRetryCount	Specifies the maximum number of retry attempts the trigger restart task makes to start the JMS triggers that fail to start when the JMS connection alias starts up
watt.server.jms.trigger.startupFailure.restartTaskRetryInterval	Specifies the number of seconds that the trigger restart task waits between attempts to restart JMS triggers that failed to start when the JMS connection alias started.
watt.server.oauth.token.endpoint.auth	Specifies whether the token endpoint accepts an existing session or requires credentials for authentication.
watt.server.publish.maxCSQRedeliveryCount	Specifies the maximum redelivery attempts Integration Server makes when publishing a message from the client side queue (CSQ) to the Broker.
watt.server.SOAP.inbound.CDATA.removeTags	Specifies whether Integration Server removes or preserves the CDATA delimiter tags found in an inbound SOAP request.
watt.server.search.fast	Specifies whether Integration Server must process the value assigned to the pipeline variable while loading a flow service thereby enhancing the search operation and displaying the search results much faster.
watt.server.enterprisegateway.ignoreXForwardedForHeader	Specifies whether Integration Server must ignore the 'X-Forwarded-For' request header while processing the rules in Enterprise Gateway. If this property is set to 'true' then Integration Server ignores the 'X-Forwarded-For' request header and considers the proxy server's IP address as the host IP address. If the property is set to 'false' then Integration Server obtains the actual host IP address from the 'X-Forwarded-For' request header. Default value is 'true'.

Removed Parameter	Replacement, if any
watt.ssl.iaik.clientAllowUnboundRenegotiate	None. This parameter is obsolete. Integration Server uses the Entrust security provider library which has been updated for RFC 5746 to support secure TLS/SSL renegotiation. Secure renegotiation cannot be disabled.
watt.ssl.iaik.serverAllowUnboundRenegotiate	None. This parameter is obsolete. Integration Server uses the Entrust security provider library which has been updated for RFC 5746 to support secure TLS/SSL renegotiation. Secure renegotiation cannot be disabled.

Deprecated Parameter	Replacement, if any
watt.server.publish.maxCSQRedeliveryCount	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.

Changed Parameter	Description
watt.server.coder.responseAsXML	The default value of this parameter is changed to 'true'.

Release 10.2

Added Parameter	Description
watt.adapters.withOnlineHelp	Specifies a comma-separated list of the adapter names that have online help content that needs to be accessible through the Help link on Integration Server Administrator.

Added Parameter	Description
watt.core.xsd.useKnownSchemaLocation	Specifies whether Integration Server includes a "known schema location" and the schemaLocation attribute for an import statement in the WSDL document generated for a provider web service descriptor. When the schemaLocation attribute is not present in the WSDL document, an Integration Server that consumes the WSDL document will not dereference the schemaLocation attribute value during web service processing. If the known schema locations are the only import statements that required namespace resolution, the absence of the schemaLocation attribute allows web service development to occur while not connected to the Internet.
watt.server.checkWhitelist	Specifies whether Integration Server uses a whitelist to filter the list of classes than can be used for deserialization.
watt.server.circuitBreaker.threadPoolMax	Specifies the maximum number of threads that the server maintains in the circuit breaker thread pool. Note: The circuit breaker feature is available by default for a service that resides in a Microservices Runtime. To use the circuit breaker feature with Integration Server, your Integration Server must have additional licensing.
watt.server.circuitBreaker.threadPoolMin	Specifies the minimum number of threads that the server maintains in the circuit breaker thread pool. Note: The circuit breaker feature is available by default for a service that resides in a Microservices Runtime. To use the circuit breaker feature with Integration Server, your Integration Server must have additional licensing.
watt.server.dumpWhitelist	When whitelist class filtering is enabled, indicates whether or not Integration Server generates a log file that lists any classes for which deserialization was attempted but are not part of a whiteslistclasses.xml file.
watt.server.http.Strict-Transport-Security	Specifies whether Integration Server includes Strict-Transport-Security header in response headers

Added Parameter	Description
watt.server.http.X-Content-Type-Options	Specifies whether Integration Server includes the X-Content-Type-Options header in response headers.
watt.server.http.X-XSS-Protection	Specifies whether Integration Server includes X-XSS-Protection in the response headers.
watt.server.jms.csq.publishDelayWhileDraining	Specifies the number of seconds that Integration Server waits before publishing a JMS message to the client side queue (CSQ) while the CSQ drains.
watt.server.messaging.csq.publishDelayWhileDraining	Specifies the number of seconds that Integration Server waits before publishing a message to the client side queue (CSQ) while the CSQ drains.
watt.server.oauth.disableClient.disableTokens	Specifies whether a client access token issued to a client account that is disabled can be used to access resources
watt.server.password.historyLength	Specifies the maximum number of previously set passwords that Integration Server saves in the memory for a user.
watt.server.password.maxIdenticalCharsInARow	Specifies the maximum number of identical characters in a row a password can contain for non-Administrator users.
watt.server.password.maxLength	Specifies the maximum number of characters (alphabetic characters, digits, and special characters combined) the password must contain for non-Administrator users.
watt.server.serverlogMaskBearerToken	Specifies whether Integration Server masks the value of a bearer token when writing to the server log.
watt.server.SOAP.preserveCDATA	Specifies whether Integration Server encodes CDATA blocks in outbound messages.
watt.ssh.jsch.mac_c2s	Specifies the order of message authentication code (MAC) algorithms for client to server transmission.
watt.ssh.jsch.mac_s2c	Specifies the order of message authentication code (MAC) algorithms for server to client transmission.

Changed Parameter	Description
watt.server.illegalUserChars	This parameter applies to user names only now. Previously, it applied to usernames and passwords.
watt.server.password.minDigits	The default value of this parameter is now 0. Integration Server uses the new default value for new Integration Server instances only.
watt.server.password.minLowerChars	The default value of this parameter is now 0. Integration Server uses the new default value for new Integration Server instances only.
watt.server.password.minSpecialChars	The default value of this parameter is now 0. Integration Server uses the new default value for new Integration Server instances only.
watt.server.password.minUpperChars	The default value of this parameter is now 0. Integration Server uses the new default value for new Integration Server instances only.

Removed Parameter	Replacement, if any
watt.server.jms.debugTrace	Use enhanced logging for the JMS connection aliases used by the JMS triggers for which you want Integration Server to generate additional logging.
watt.server.SOAP.HTTP.useMailWriter	None. This parameter was for use with webMethods Mediator which reached end-of-life in 10.1.
watt.xslt.debug.facList	This parameter is obsolete. Use Integration Server Administrator to set the Server Logger configuration for the facilities in the WmXSLT package.
watt.xslt.debug.level	None. Use Integration Server Administrator to set the server logging level for the facilities in the WmXSLT package.
watt.xslt.debug.logfile	None. Integration Server writes log messages for the WmXSLT package to the server.log.

Deprecated Parameter	Replacement, if any
watt.broker.sync.enableBrokerSync	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.
watt.broker.sync.forceDispatcherInit	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.
watt.brokerCoder.verbose	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.
watt.core.brokerTypeCoder.verbose	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.
watt.core.brokerCoder.wireFormat	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.
watt.server.auditDocIdField	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.
watt.server.broker.producer.multiclient	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.
watt.server.broker.replyConsumer.fetchSize	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.
watt.server.broker.replyConsumer.multiclient	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.
watt.server.broker.replyConsumer.sweeperInterval	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.
watt.server.brokerTransport.dur	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.
watt.server.brokerTransport.max	None. WebMethods Broker is deprecated, resulting in the deprecation of this parameter.
watt.server.brokerTransport.ret	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.
watt.server.control.maxPersist	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.
watt.server.control.triggerInputControl. delayIncrementInterval	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.
watt.server.control.triggerInputControl.delays	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.
watt.server.dispatcher.comms.brokerPing	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.

Deprecated Parameter	Replacement, if any
watt.server.dispatcher.comms.connectionShareLimit	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.
watt.server.jms.trigger.maxPrefetchSize	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.
watt.server.jms.trigger.wmjms.clientIDSharing	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.
watt.server.jms.wmjms.lms.readTimeout	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.
watt.server.publish.useCSQ	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.
watt.server.publish.drainCSQInOrder	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.
watt.server.publish.usePipelineBrokerEvent	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.
watt.server.trigger.keepAsBrokerEvent	None. webMethods Broker is deprecated, resulting in the deprecation of this parameter.

Changed Parameter	Description
watt.server.content.type.mappings	Specifies a one-to-one mapping of content types for inbound and outbound requests. Previously, this parameter only mapped wildcards found in the Accept header field to a specific content type for the outbound content handler.
watt.server.http.interceptor.preprocess.sizeLimit	Integration Server now includes support for size units with this server configuration parameter. Set this property to N [KB|MB|GB], where N is any valid integer. Do not include any spaces between the integer and the unit of measure. If you do not specify a unit of measure, Integration Server treats the supplied N value as bytes.
watt.server.http.preserveUriReservedChars	The server configuration property watt.server.http.preserveUriReservedChars has been modified to include "space" as one of the reserved characters as well.

Release 10.1

Added Parameter	Description
watt.art.notification.publishToJMS.useCSQ	Specifies whether the asynchronous notification of Adapter Runtime can use CSQ (Client side Queueing) when publishing to JMS provider.
watt.server.http.interceptor.enabled	Specifies whether an HTTP interceptor is enabled for Integration Server.
watt.server.http.interceptor.impl	Specifies the fully qualified name of the java class for the HTTP interceptor implementation.
watt.server.http.interceptor.preprocess.sizeLimit	Specifies the maximum number of bytes that an HTTP interceptor reads during preprocessing.
watt.server.http.uriPath.decodePlus	Specifies whether or not the '+' character is interpreted as a ' ' when it appears in the path component of the request URI .
watt.server.jms.trigger.startupFailure.retryCount	Determines the maximum number of retry attempts that Integration Server makes to start a JMS trigger after the trigger fails to start.
watt.server.oauth.requirePost	Indicates whether Integration Server requires that client invoke the pub.oauth services via an HTTP POST request.
watt.server.rg.internalsocket.timeout	Specifies the length of time, in milliseconds, that Enterprise Gateway Server allows a client request to wait for a connection to the Internal Server before terminating the request with an HTTP 500 Internal Server Error.
watt.server.service.list.treatEmptyAsNull	Specifies whether Integration Server assigns a null value to all list data types like Document List, String List, Document Reference List, and Object list during the execution of a flow service without an input value.
watt.server.stats.logFilesToKeep	Specifies the number of stats.log files that Integration Server keeps on the file system, including the current log file. When Integration Server reaches the limit for the number of stats.log files, each time Integration Server rotates the stats.log, Integration Server deletes the oldest archived stats.log file.
watt.server.stats.logRotateSize	Specifies the file size at which Integration Server rolls over the stats.log.

Added Parameter	Description
watt.server.uri.decodePath	Specifies whether or not the '+' character is interpreted as a ' ' when it appears in the path component of the request URI.
watt.server.serviceErrorsAsLogged	Specifies whether the Integration Server administrator should display the service errors under "Statistics" page according to the actual number of errors logged in the WMERROR table.
watt.server.search.fast	Specifies whether Integration Server must process the value assigned to the pipeline variable while loading a flow service thereby enhancing the search operation and displaying the search results much faster.
watt.server.enterprisegateway. ignoreXForwardedForHeader	Specifies whether Integration Server must ignore the 'X-Forwarded-For' request header while processing the rules in Enterprise Gateway. If this property is set to 'true' then Integration Server ignores the 'X-Forwarded-For' request header and considers the proxy server's IP address as the host IP address. If the property is set to 'false' then Integration Server obtains the actual host IP address from the 'X-Forwarded-For' request header. Default value is 'true'.

Removed Parameter	Replacement, if any
watt.net.defaultBufferSize	None. This parameter specifies the maximum content length of an HTTP request that the WmTomcat package will process. The WmTomcat package has been removed from the product.
watt.net.webapp.cookies.useRelevantPath	None. This parameter specifies how WmTomcat can create fewer cookies to prevent the web application from logging out because of exceeding the browser cookie limit. The WmTomcat package has been removed from the product.

Changed Parameter	Description
watt.net.maxClientKeepaliveConns	The default value of this parameter is now 0. Integration Server uses the new default value for new Integration Server instances only.

Changed Parameter	Description
watt.server.http.preserveUriReservedChars	Changes to this property no longer require a restart of Integration Server to take effect. The changes take effect immediately.
watt.server.oauth.requireHTTPS	If you set the value of this property to true and the client application accesses any of the pub.oauth services over HTTP, Integration Server issues an HTTP 400 error response to the client and writes a service exception to the error log. An HTTP 400 error indicates a client error. Previously, Integration Server issued an HTTP 500 error, which indicates a server error. According to the OAuth Framework , it is a client error when the client does not use a secure channel.

Release 10.0

Added Parameter	Description
watt.core.schema.useUnboundedForMaxOccurs	Specifies the number at which a maxOccurs value greater than this number is treated as unbounded.
watt.net.ssl.client.ftps.useJSSE	Controls the use of JSSE for all of the outbound FTPS connections from Integration Server. Set this parameter to true to use JSSE for all of the outbound FTPS connections. Set this property to false to indicate that JSSE is not used for outbound FTPS connections. The default is false.
	When executing the pub.client:ftp service or the pub.client.ftp:login service, the value of the useJSSE input parameter overrides the value of the watt.net.ssl.client.ftps.useJSSE server configuration parameter.
watt.server.audit.logFilesToKeep	Specifies the number of audit log files, including the current log file for the audit logger, that Integration Server keeps on the file system for an audit logger that writes to a file. When Integration Server reaches the limit for the number of log files for the audit logger, each time Integration Server rotates the audit log, Integration Server deletes the oldest archived audit log file.

Added Parameter	Description
watt.server.audit.logRotateSize	Specifies the file size at which Integration Server rolls over the audit log for a logger that writes to a file.
watt.server.cache.maxEntriesInCache	Specifies the default value for the Maximum Entries in Cache property for a distributed system cache used in an Integration Server cluster.
watt.server.diagnostic.logFiles.maxMB	Specifies the maximum number of megabytes of data that Integration Server reads from the file system for an audit log while collecting diagnostic data. This parameter affects the collection of audit log files only. It does not affect audit log data read from the database, nor does it affect other log files such as the server log, stats log or terracotta-client logs. The default is 250 megabytes. You do not need to restart Integration Server for changes to this parameter to take effect.
watt.server.jms.trigger.groupTag	Specifies the group tag used in the names of JMS triggers that belong to a trigger group. Integration Server treats JMS triggers with the specified group tag in the name as members of a trigger group.
watt.server.remoteInvoke.queryCSRFToken	Indicates if, during remote service invocation, Integration Server queries the remote server for the CSRF token for the current session and then includes the token in the service request. If an Integration Server uses Cross-Site Request Forgery (CSRF) guard, requests sent to the server must include a CSRF token. If the request does not include a CSRF token, the server rejects the request. When an Integration Server performs a remote invoke to execute a service on another Integration Server that uses CSRF guard, the request needs to include the CSRF token. To ensure that the request includes a CSRF token, the requesting Integration Server obtains the CSRF token for the current session from the remote Integration Server. The requesting Integration Server then modifies the request to include the CSRF token. However, this is only necessary if the remote Integration Server uses CSRF guard.

Added Parameter	Description
watt.server.response.displayISErrorCode	Indicates whether the response from Integration Server to a client application in the case of an error situation includes the Integration Server error code in the header and the body of the response. If you set the value of this parameter to false, the response during error situations includes the error message text without the Integration Server error code in both the header and the body of the response. If you set the value to true, the response during error situations includes the Integration Server error code and the corresponding error message text in the header and body of the response. The default value of the parameter is true.
watt.server.SOAP.default.endpointHTTP	Specifies the default provider web service endpoint alias for the HTTP protocol.
watt.server.SOAP.default.endpointHTTPS	Specifies the default provider web service endpoint alias for the HTTPS protocol.
watt.server.SOAP.HTTP.useMailWriter	Configures Axis stack to use an alternate multipart writer implementation based on the JavaMail AP
watt.server.SOAP.identifyISGeneratedWSDL	When creating a web service descriptor from a WSDL document as well as the refresh, Integration Server detects whether the WSDL document was originated by Integration Server.

Removed Parameter	Replacement, if any
watt.server.event.nerv.subscribeService.user	None. The pub.event.nerv:subscribe service has been removed from the product as of Integration Server version 10.0.

Changed Parameter	Description
watt.net.ssl.client.useJSSE	Controls the use of JSSE only for the outbound HTTPS connections from Integration Server. Note: This change does not impact any FTP connections created using the pub.client:ftp and the pub.client.ftp:login services.

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Added Parameter	Description
watt.core.validation.skipAbsentStarBody	Specifies whether to skip a validation that Integration Server performs when decoding mixed content elements that have an enumeration restriction.
watt.server.apiportal.url	Specifies the URL for establishing a connection to API Portal and publishing a REST API descriptor. This parameter derives the API Portal URL from the following: • Host name and port number for the API Portal connection. • Tenant for which the REST API descriptor is to be published. • Specifications of the REST API descriptor.
watt.server.jca.connectionPool. threadInterrupt.waitTime	Specifies the maximum number of milliseconds that a thread can take while creating or closing a connection before the pool interrupter thread interrupts the thread. After the specified time elapses, the pool interrupter thread considers the thread to be blocked and interrupts it.
watt.server.jca.connectionPool. threadInterrupter.sleepTime	Specifies the number of milliseconds the pool interrupter thread sleeps between sweeps for server threads that became blocked while creating or closing a connection.
watt.server.json.decodeRealAsString	Converts a real number that Integration Server retrieves from JSON content to String.
watt.server.log.maxEntries	Specifies the default number of log entries to be displayed in the log viewing utility.
watt.server.mediator.directives	Specifies a comma-separated list of Mediator directives.

Added Parameter	Description
watt.server.messaging.debugTrace	Enables an extra level of verbose logging for webMethods messaging triggers that receive messages from Universal Messaging or through Digital Event Services. You can configure the additional logging globally or at the individual webMethods messaging trigger level.
watt.server.ns.decodeJavaService	Enables Integration Server to display non-ASCII Unicode characters in the body of a Java service.
watt.server.ns.logDuplicateDocTypeRegistrationAsError	Indicates whether to suppress or continue logging of error messages related to registration of duplicate universal names for a document type. Set the value of the parameter to false to suppress the logging of the error messages and true to resume the logging. The default value of this parameter is true. Note: Setting the parameter value to false suppresses the error messages about duplicate universal names only. It does not resolve the duplicate names.
watt.server.returnCurrentDateTimeString	Returns the current date and time for an Object field that is not of type java.util.Date and has the format "yyyy-MM-dd'T'HH:mm:ss.SSS'Z'".
watt.server.serverlogFilesToKeep	Specifies the number of server log files that Integration Server keeps on the file system, including the current server log file.
watt.server.session.locale.ignore	Specifies whether the default locale for the pub.date* services is the server locale or the locale from the session used by the client that invoked the service.
watt.server.SOAP.pre82WSD.ignoreVersionMismatch	For a web service provider that was created in an Integration Server release earlier than 8.2.2 and for which the Pre-8.2 compatibility mode property is set to true, specifies whether to emulate pre-8.2 behavior for process SOAP requests.

Added Parameter	Description
watt.server.sftp.dateStampFmt	Specifies the format of date to be used in the SFTP client public services, specifically the pub.client.sftp* services in the WmPublic package. To specify the date format to use, you can use any format that is supported by the Java class java.text.SimpleDateFormat . For example, to display the date with the format 08-12-02 14:44:33:1235, specify dd-MM-yy HH:mm:ss:SSSS. If the watt.server.sftp.dateStampFmt property is not set, Integration Server uses the default format, which is yyyy-MM-dd HH:mm:ss z.
watt.server.transaction.xastore.maxTxnPerFile	Specifies the maximum number of unique XA transactions in an XA recovery log file. When the XA recovery log file reaches the maximum number of transactions, Integration Server creates a new file.
watt.server.transaction.xastore.performXALogging	Specifies whether or not Integration Server writes transaction information to the XA recovery store. Set to true to instruct Integration Server to log information about the state and progress of each XA transaction. Set to false to instruct Integration Server to skip logging XA transaction information. The default is true.
watt.server.um.producer.transaction.commitRetryCount	Specifies the number of attempts made by Integration Server in publishing a guaranteed document to a Universal Messaging server, after the initial attempt at publishing fails because of a transaction failure.
watt.um.clientLog.level	Determines the information that is written to the Universal Messaging client log file, called umClient.log. Each level outputs log entries with that level or higher. Valid values are trace, debug, info, warn, error, fatal, and off. The default is error.

Added Parameter	Description
watt.um.clientLog.size	Maximum size, in MB, of the Universal Messaging client log file. When this size is reached, Integration Server rolls the file over to a backup called umClient (number).log and creates a new file.
watt.um.clientLog.fileDepth	Number of backup log files to keep on disk when using log rolling for the Universal Messaging client log file.

Changed Parameter	Description
watt.net.ftpDataConn	Now, when this parameter is set to true, Integration Server allows parallel downloads from multiple FTP sessions. When this parameter is set to false, Integration Server does not allow parallel downloads and reuses the same FTP session. The default is false.
watt.net.jsse.client.enabledCipherSuiteList	To make it easier to specify a long list of allowed cipher suites, Integration Server now allows specifying a file as the value for this parameter.
watt.net.jsse.server.enabledCipherSuiteList	To make it easier to specify a long list of allowed cipher suites, Integration Server now allows specifying a file as the value for this parameter.
watt.net.ssl.client.cipherSuiteList	To make it easier to specify a long list of allowed cipher suites, Integration Server now allows specifying a file as the value for this parameter.
watt.net.ssl.client.useJSSE	The default value of this parameter is now true, indicating that global default for outbound HTTP requests is to use JSSE. Individual outbound requests can override this setting.
watt.net.ssl.server.cipherSuiteList	To make it easier to specify a long list of allowed cipher suites, Integration Server now allows specifying a file as the value for this parameter.
watt.server.cors.allowedOrigins	Now supports the use of regular expressions in the comma-separated list of allowed origin servers. Integration Server treats any value in the comma-separated list that begins with "r:" as a regular expression.

Removed Parameter	Replacement, if any
watt.ssh.jsch.kex	

Release 9.10

Added Parameter	Description
watt.net.http401.throwException	Specifies whether the pub.client:http service throws a NetException when receiving a 401 error response or, instead, places the HTTP response header and body in the pipeline.
watt.net.http501-599.throwException	Specifies whether the pub.client:http service throws a ServiceException or returns response headers and response body when receiving a 501 to 599 level response from a remote HTTP server.
watt.security.openid.logExceptions	Specifies whether Integration Server writes OpenID errors to the error log.
watt.security.session.forceReauthOnExpiration	Specifies whether Integration Server accepts or rejects a request that includes an expired or invalid session.
watt.server.audit.um.sessionPool.max	Specifies the maximum number of sessions in the Universal Messaging session pool for each Universal Messaging connection alias used by an audit logger.
watt.server.audit.um.sessionPool.min	Specifies the minimum number of sessions in the Universal Messaging session pool for each Universal Messaging connection alias used by an audit logger.
watt.server.audit.um.sessionPool.retryInterval	Specifies the number of seconds Integration Server waits between attempts to re-establish a session on the Universal Messaging server after an audit logger enters queue fail-fast mode.
watt.server.jca.connectionPool. createConnection.interrupt.waitTime	Specifies the wait time, measured in milliseconds, that elapses before Integration Server interrupts a connection creation thread that is in a wait state

Added Parameter	Description
watt.server.package.pre82WSD.loadExternalResources	Specifies whether, at package load time, Integration Server loads external resources for a consumer web service descriptor or a WSDL first web descriptor created on a version of Integration Server prior to version 8.2 and for which the Pre-8.2 compatibility mode property is set to true.

Changed Parameter	Description
watt.server.oauth.custom.responseHeader	Specifies whether the OpenID redirection endpoint for Integration Server include a brief description of the error in the response header when an OpenID error or Integration Server exception occurs during authentication. Previously, this parameter applied to OAuth authorization server only.
watt.server.stats.pollTime	Restrictions for the value for the parameter. For a stand-alone Integration Server, the watt.server.stats.pollTime must be an integer greater than or equal to 0 (zero). For an Integration Server in a cluster, the watt.server.stats.pollTime must be an integer greater than 0 (zero) but less than or equal to 60.

11.0 Added, Removed, Deprecated, or Changed Java APIs

A release is listed in this section only if changes occurred in that release.

Release 10.11

Added API	Description
com.softwareag.is.auth.saml.issuer. SAMLAssertionParams	Class containing methods for configuring the parameters used by the SAML token generator.
com.softwareag.is.auth.saml.issuer. SAMLException	Class that defines the exception thrown if something goes wrong when generating the SAML2.0 Bearer token.
com.softwareag.is.auth.saml.issuer. SAMLIssuerUtils	Class that contains method to generate a SAML2.0 Bearer token using the parameters from SAMLAssertionParams.

Added API	Description
com.softwareag.util.PKCE.createCodeVerifier	Generates a cryptographically random, high entropy string that is suitable to use as a code_verifier.
com.softwareag.util.PKCE.createCodeChallenge	Uses the code_challenge_method to transform the code_verifier to produce a code_challenge to provide to pub.oauth:authorize.
com.softwareag.util.PKCE.pkceMatch	Checks that the code_verifier matches the code_challenge.

Release 10.7

Added API	Description
com.wm.app.b2b.server.cache.config. SearchResult	Cache search results.
com.wm.app.b2b.server.ServerAPI. registerCoderForMultipartServices	Registers the services and associated coder with Multipart content handler
com.wm.app.b2b.server.ServerAPI. removeCoderForMultipartServices	Unregisters the coder for the specified services from Multipart content handler.
com.wm.util.coder.IDataJSONCoder. decodeNullRootAsEmpty	Indicates to the IDataJSONCoder whether null scalar value at root in the JSON being parsed should be converted to empty IData or to {"$rootValue":null}.
com.wm.util.coder.IDataJSONCoder. setDateEncoding	Indicates whether java.util.Date instances in the com.wm.data.IData being encoded should become long, timestamps, or Strings in the JSON text returned by encode(OutputStream, IData)
com.wm.util.coder.IDataJSONCoder. unescapeSpecialChars	Indicates to the IDataJSONCoder whether the escape characters will be un-escaped while decoding the JSON string value.

Deprecated API	Replacement, if any
com.wm.app.b2b.client.cache.config. SearchResult	com.wm.app.b2b.server.cache.config.SearchResult

Release 10.5

Added API	Description
com.softwareag.is.interceptor. HTTPInterceptorOutboundIFC	Defines a set of contracts that any outbound HTTP interceptor must implement.

Deprecated API	Replacement, if any
com.wm.data.IDataFactory.create(int size)	com.wm.data.IDataFactory.create()

Release 10.4

Removed API	Replacement, if any
com.webmethods.vcs.AbstractClient	Use the local service development feature (Local Version Control Integration) to check package elements and their supporting files into and out of a version control system (VCS) directly from Designer
com.webmethods.vcs.VCSClient	Use the local service development feature (Local Version Control Integration) to check package elements and their supporting files into and out of a version control system (VCS) directly from Designer
com.webmethods.vcs.VCSException	Use the local service development feature (Local Version Control Integration) to check package elements and their supporting files into and out of a version control system (VCS) directly from Designer
com.webmethods.vcs.VCSLog	Use the local service development feature (Local Version Control Integration) to check package elements and their supporting files into and out of a version control system (VCS) directly from Designer

Release 10.3

Added API	Description
com.wm.app.b2b.server.ServerAPI. logSecurity	Logs a message to the security log. When security logging is enabled and Custom is selected as a security area to audit, use of this method allows users' applications to write entries to the security log.

Deprecated API	Replacement, if any
com.webmethods.vcs.AbstractClient	Use the local service development feature (Local Version Control Integration) to check package elements and their supporting files into and out of a version control system (VCS) directly from Designer
com.webmethods.vcs.VCSClient	Use the local service development feature (Local Version Control Integration) to check package elements and their supporting files into and out of a version control system (VCS) directly from Designer
com.webmethods.vcs.VCSException	Use the local service development feature (Local Version Control Integration) to check package elements and their supporting files into and out of a version control system (VCS) directly from Designer
com.webmethods.vcs.VCSLog	Use the local service development feature (Local Version Control Integration) to check package elements and their supporting files into and out of a version control system (VCS) directly from Designer

Release 10.2

Added API	Description
com.wm.app.b2b.server.ServerAPI. registerCoderForMultipart	Registers a service and associated coder for a multipart content handler (ContentHandler_Multipart). The specified coder is the content handler for REST requests for that service.
com.wm.app.b2b.server.ServerAPI. removeCoderForMultipart	Unregisters the coder for the specified service from multipart content handler.

Deprecated API	Replacement, if any
com.wm.app.b2b.server.jms.producer. ProducerFacace.sendLargeMessageStream	None. webMethods Broker is deprecated, resulting in the deprecation of this method.
com.wm.app.b2b.server.jms.consumer. JMSTriggerFacade.getPrefetchSize	None. webMethods Broker is deprecated, resulting in the deprecation of this method.

Release 10.1

Added API	Description
com.softwareag.is.interceptor.HttpInterceptor Exception	Exception that can be thrown from an HttpInterceptorIFC implementation of the preProcess() method to interrupt normal processing of the HTTP request.
com.softwareag.is.interceptor.HttpInterceptorIFC	Defines a set of contracts that any inbound HTTP interceptor must implement.
com.wm.xmldata.XmlData	Class for creating, getting, and setting XmlData content.
com.wm.xmldata.XmlDataAnyTag	Class for creating keys that are used as XmlData *any element wildcards.
com.wm.xmldata.XmlDataAttributeTag	Class for creating XmlDataTags for use as attribute names.
com.wm.xmldata.XmlDataConstants	Class implements static methods that server as shortcuts for various XmlData method names. By using a static import of this class, a program can significantly reduce the syntax clutter resulting from long class names and long method names.
com.wm.xmldata.XmlDataContentTag	Class that is a common superclass for the XmlDataTags that may appear in content models.
com.wm.xmldata.XmlDataCopy	Class that implements a structured copying utility for XmlData infosets.
com.wm.xmldata.XmlDataCursor	Class for navigating and manipulating the XMLData element content.
com.wm.xmldata.XmlDataElementTag	Class for creating keys that are used as XmlData element names
com.wm.xmldata.XmlDataException	Class that serves as the base class for all exceptions thrown by the XMLData feature.
com.wm.xmldata.XmlDataGroupTag	Class for constructing an XmlData key for group models.
com.wm.xmldata.XmlDataIteratorTag	Class that provides a standard implementation for creating XmlData iterator-tags.
com.wm.xmldata.XmlDataMap	Class that provides the direct manipulation of fields in an XmlData object without the use of cursors.

Added API	Description
com.wm.xmldata.XmlDataPath	Class to facilitate the encoding or decoding of an XmlData path as a String literal.
com.wm.xmldata.XmlDataSubstitutionTag	Class for creating specialized element tags that are the heads of substitution groups.
com.wm.xmldata.XmlDataTreeCursor	Class that provides additional capabilities beyond those of the XmlDataCursor. In particular, repeating values can be presented as if flattened so that nextItem() and previousItem() position to individual items rather than arrays of items.
com.wm.xmldata.XmlDataTypeTag	Class for creating an XmlDataTypeTag and returning the value of an XMLDataTypeTag.
com.wm.xmldata.XmlNamespaceMap	Class that maintains a mapping between prefixes and namespace URIs.
com.wm.xmldata.xmldocumenttype. SchemaConverterException	Class for throwing a SchemaConverterException.
com.wm.xmldata.xmldocumenttype. XmlDataSchemaConverter	Class that converts the scripted form of an XmlData document type specification to actual XmlData Document Type namespace nodes.
com.wm.xmldata.xmldocumenttype. XmlDataWorkspace	Class that provides a 'local' workspace in which XmlData document types and fields can be created on an ad hoc basis. This class also allows read-only access to the XmlData document types in the Integration Server namespace.

Removed API	Replacement, if any
com.wm.data.XmlData	com.wm.xmldata.XmlData
com.wm.data.XmlDataAnyTag	com.wm.xmldata.XmlDataAnyTag
com.wm.data.XmlDataAttributeTag	com.wm.xmldata.XmlDataAttributeTag
com.wm.data.XmlDataContentTag	com.wm.xmldata.XmlDataContentTag
com.wm.data.XmlDataCursor	com.wm.xmldata.XmlDataCursor
com.wm.data.XmlDataElementTag	com.wm.xmldata.XmlDataElementTag
com.wm.data.XmlDataException	com.wm.xmldata.XmlDataException
com.wm.data.XmlDataGroupTag	com.wm.xmldata.XmlDataGroupTag
com.wm.data.XmlDataSubstitutionTag	com.wm.xmldata.XmlDataSubstitutionTag

Removed API	Replacement, if any
com.wm.data.obsolete.XmlData	com.wm.xmldata.XmlData
com.wm.data.obsolete.XmlDataCursor	com.wm.xmldata.XmlDataCursor

Release 10.0

Added API	Description
com.wm.app.b2b.server.jms.consumer. JMSTriggerGroupFacade	Class containing methods for creating, viewing, and deleting JMS trigger groups.

Release 9.12

Added API	Description
com.wm.data.obsolete.XmlData	Contains the 9.10 version of the com.wm.data.XmlData class. The com.wm.data.XmlData has been revised and simplified in 9.12.
com.wm.data.obsolete.XmlDataCursor	Contains the 9.10 version of the com.wm.data.XmlDataCursor class. The com.wm.data.XmlDataCursor has been revised and simplified in 9.12.

Changed API	Description
com.wm.data.XmlData	Revised to present a more consistent programming interface in which there are clearer distinctions between the underlying IData implementation of XmlData and the logical XmlData model as viewed by a typical application. Additionally, the API formalizes aspects of the IData implementation of XmlData to reduce the knowledge of the underlying Xm;Data implementation that is required to use the methods in the class.
	For a detailed list of changes to this class, see the webMethods Integration Server Java API Reference.
	Note: If you have any existing Java classes that use this class, you must modify your Java classes to either use new APIs introduced in com.wm.data.XmlData or change the Java imports in to reference the 9.10 version of the class which is now contained in com.wm.data.obsolete.XmlData.
com.wm.data.XmlDataCursor	Revised to present a more consistent programming interface in which there are clearer distinctions between the underlying IData implementation of XmlData and the logical XmlData model as viewed by a typical application. Additionally, the API formalizes aspects of the IData implementation of XmlData to reduce the knowledge of the underlying XmlData implementation that is required to use the methods in the class.
	For a detailed list of changes to this class, see the webMethods Integration Server Java API Reference.
	Note: If you have any existing Java classes that use this class, you must modify your Java classes to either use new APIs introduced in com.wm.data.XmlDataCursor or change the Java imports in to reference the 9.10 version of the class which is now contained in com.wm.data.obsolete.XmlDataCursor.

Release 9.10

Added API	Description
com.wm.data.XmlData	Class for creating, getting, and setting XmlData content.
com.wm.data.XmlDataAnyTag	Class for creating keys that are used as XmlData *any element wildcards.
com.wm.data.XmlDataAttributeTag	Class for creating XmlDataTags for use as attribute names.
com.wm.data.XmlDataContentTag	Class that is a common superclass for the XmlDataTags that may appear in content models.
com.wm.data.XmlDataCursor	Class for navigating and manipulating the XmlData element content.
com.wm.data.XmlDataElementTag	Class for creating keys that are used as XmlData element names
com.wm.data.XmlDataException	Class that serves as the base class for all exceptions thrown by the XmlData feature.
com.wm.data.XmlDataGroupTag	Class for constructing an XmlData key for group models.
com.wm.data.XmlDataSubstitutionTag	Class for creating specialized element tags that are the heads of substitution groups.

12.0 Added, Removed, Deprecated, or Changed Administrator APIs

A release is listed in this section only if changes occurred in that release.

Release 10.11

Added API	Description
GET /admin/acl/{name}	Retrieves an access control list.
GET /admin/acl/	Retrieves all access control lists.
POST /admin/acl/	Creates an access control list.
PATCH /admin/acl/{name}	Updates an access control list.
PUT /admin/acl/{name}	Replaces an access control list.
DELETE /admin/acl/{name}	Deletes an access control list.
GET /admin/dashboard/config	Retrieves the Dashboard configuration.

Added API	Description
PATCH /admin/dashboard/config	Updates the Dashboard configuration.
PUT /admin/dashboard/config	Replaces the Dashboard configuration.
POST /admin/dashboard/config	Performs an administrative action on the Dashboard configuration.
GET /admin/enterprisegateway/alertoption	Retrieves the default alert configuration.
PATCH /admin/enterprisegateway/alertoption	Patches the default alert configuration.
PUT /admin/enterprisegateway/alertoption	Updates the default alert configuration.
GET /admin/enterprisegateway/dos	Retrieves rule-specific denial of service configuration.
GET /admin/enterprisegateway/dos/deniedip	Retrieves a list of denied IP addresses.
DELETE /admin/enterprisegateway/dos/deniedip/{IP}	Removes IP address from the denied IP address list.
GET /admin/enterprisegateway/dos/dosbyip	Retrieves denial of service configuration by IP address.
PATCH /admin/enterprisegateway/dos/dosbyip	Updates denial of service configuration for IP addresses.
PUT /admin/enterprisegateway/dos/dosbyip	Replaces denial of service configuration for IP addresses.
GET /admin/enterprisegateway/dos/globaldos	Retrieves global configuration for denial of service.
PATCH /admin/enterprisegateway/dos/globaldos	Updates global configuration for denial of service.
PUT /admin/enterprisegateway/dos/globaldos	Replaces global configuration for denial of service.
GET /admin/enterprisegateway/filters	Retrieves a list of supported filters for Enterprise Gateway.
GET /admin/enterprisegateway/mobileappprotection	Retrieves mobile application protection configuration.
PATCH /admin/enterprisegateway/mobileappprotection	Updates mobile application protection configuration.
PUT /admin/enterprisegateway/mobileappprotection	Replaces mobile application protection configuration.
GET admin/enterprisegateway/rule	Retrieves Enterprise Gateway rules.
POST /admin/enterprisegateway/rule	Creates an Enterprise Gateway rule.

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Added API	Description
PATCH /admin/enterprisegateway/rule	Updates an Enterprise Gateway rule.
PUT /admin/enterprisegateway/rule.	Replaces an Enterprise Gateway rule.
GET /admin/enterprisegateway/rule/alertoption/ {ruleName}/ruletype/{ruleType}	Retrieves rule-specific alert configuration.
POST /admin/enterprisegateway/rule/alertoption	Updates alert configuration for a rule.
PUT /admin/enterprisegateway/rule/alertoption	Replaces alert configuration for a rule.
GET /admin/enterprisegateway/rule/{ruleName} /ruletype/{ruleType}	Retrieves an Enterprise Gateway rule.
DELETE /admin/enterprisegateway/rule/{ruleName} /ruletype/{ruleType}	Deletes an Enterprise Gateway rule.
GET /admin/enterprisegateway/rule/priority/ {ruleName}/ruletype/{ruleType}	Retrieves the priority of a rule in the Enterprise Gateway rules list.
POST /admin/enterprisegateway/rule/priority	Updates the priority of an Enterprise Gateway rule in rules list
PUT /admin/enterprisegateway/rule/priority	Replaces the priority of a rule in the Enterprise Gateway rules list.
GET /admin/grpc/channel	Retrieves all gRPC channels.
GET /admin/grpc/channel/{channelName}	Retrieves a gRPC channel.
POST /admin/grpc/channel/{channelName}	Enables or disables a gRPC channel.
PATCH /admin/grpc/channel/{channelName}	Updates a gRPC channel configuration.
GET /admin/grpc/descriptor	Retrieves all gRPC provider descriptors.
GET /admin/grpc/descriptor/ {providerDescriptorName}	Retrieves a gRPC provider descriptor.
POST /admin/grpc/descriptor/ {providerDescriptorName}	Enables or disables a gRPC provider descriptor.
GET /admin/oauth/client	Retrieves all the registered OAuth clients.
GET /admin/oauth/client/{clientId}	Retrieves the information for an OAuth client with the specified client id.
GET /admin/oauth/client/{name}/version/{version}	Retrieves the information for an OAuth client with the specified client name and version.
GET /admin/group/	Retrieves all groups.
GET /admin/group/{groupName}	Retrieves a group.
POST /admin/group/	Creates a group.

Added API	Description
PATCH /admin/group/{groupName}	Updates a group.
PUT /admin/group/{groupName}	Replaces a group.
DELETE /admin/group/{groupName}	Deletes a group.
POST /admin/oauth/client	Creates an OAuth client.
PATCH /admin/oauth/client/{clientId}	Updates the client information for an OAuth client with the specified client id.
PUT /admin/oauth/client/{clientId}	Replaces the client information for an OAuth client with the specified client id.
DELETE /admin/oauth/client/{clientId}	Deletes an OAuth client.
GET /admin/oauth/externalserver	Retrieves all external authorization servers.
GET /admin/oauth/externalserver/{name}	Retrieves an external authorization server.
POST /admin/oauth/externalserver/	Creates an external authorization server.
PATCH /admin/oauth/externalserver/{name}	Updates an external authorization server.
PUT /admin/oauth/externalserver/{name}	Replaces an external authorization server.
DELETE /admin/oauth/externalserver/{name}	Deletes an external authorization server.
GET /admin/oauth/globalsetting	Retrieves the global OAuth settings.
PATCH /admin/oauth/globalsetting/	Updates the global OAuth settings.
PUT /admin/oauth/globalsetting/	Replaces the global OAuth settings.
GET /admin/oauth/scope	Retrieves a list of scopes.
GET /admin/oauth/scope/{name}	Retrieves a scope.
POST /admin/oauth/scope	Creates a scope.
PATCH /admin/oauth/scope/{name}	Updates a scope.
PUT /admin/oauth/scope/{name}	Replaces a scope.
DELETE /admin/oauth/scope/{name}	Deletes a scope.
GET /admin/oauth/token	Retrieves a list of active access and refresh tokens.
GET /admin/oauth/token/ accesstoken/{accessTokenId}	Retrieves an access token.
GET /admin/oauth/token/ refreshtoken/{refreshTokenId}	Retrieves a refresh token.

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Added API	Description
DELETE /admin/oauth/token/ accesstoken/{accessTokenId}	Deletes an access token.
DELETE /admin/oauth/token/ refreshtoken/{refreshTokenId}	Deletes a refresh token.
PUT /admin/outboundPassword/masterPassword	Updates the master password.
POST /admin/outboundPassword/masterPassword/reset	Resets all stored passwords, including stored outbound passwords and the master password.
GET /admin/outboundPassword/masterPassword/ expiration	Retrieves the master password expiration properties.
PUT /admin/outboundPassword/masterPassword /expiration	Updates the master password expiration interval.
GET /admin/port/ftp/	Retrieves all FTP ports.
GET /admin/port/ftp/{alias}	Retrieves an FTP port.
POST /admin/port/ftp/	Creates an FTP port.
POST /admin/port/ftp/{alias}	Enables or disables an FTP port.
PATCH /admin/port/ftp/{alias}	Updates an FTP port.
PUT /admin/port/ftp/{alias}	Replaces an FTP port.
DELETE /admin/port/ftp/{alias}	Deletes an FTP port.
GET /admin/port/ftp/{alias}/ipaccess	Retrieves the IP access settings for an FTP port.
PUT /admin/port/ftp/{alias}/ipaccess	Replaces the IP access settings for an FTP port.
DELETE /admin/port/ftp/{alias}/ipaccess	Deletes the IP access settings for an FTP port. Once deleted, the port will use the global IP access settings.
GET /admin/port/ftp/{alias}/resourceaccess	Retrieves the resource access settings for an FTP port.
PUT /admin/port/ftp/{alias}/resourceaccess	Replaces the resource access settings for an FTP port.
GET /admin/port/ftps/	Retrieves all FTPS ports.
GET /admin/port/ftps/{alias}	Retrieves an FTPS port.
POST /admin/port/ftps/	Creates an FTPS port.
POST /admin/port/ftps/{alias}	Enables or disables an FTPS port.
PATCH /admin/port/ftps/{alias}	Updates an FTPS port.

Added API	Description
PUT /admin/port/ftps/{alias}	Replaces an FTPS port.
DELETE /admin/port/ftps/{alias}	Deletes an FTPS port.
GET /admin/port/ftps/{alias}/ipaccess	Retrieves the IP access settings for an FTPS port.
PUT /admin/port/ftps/{alias}/ipaccess	Replaces the IP access settings for an FTPS port.
DELETE /admin/port/ftps/{alias}/ipaccess	Deletes the IP access settings for an FTPS port. Once deleted, the port will use the global IP access settings.
GET /admin/port/ftps/{alias}/resourceaccess	Retrieves the resource access settings for an FTPS port.
PUT /admin/port/ftps/{alias}/resourceaccess	Replaces the resource access settings for an FTPS port.
GET /admin/saml	Retrieves all SAML token issuers.
GET /admin/saml/{issuer}	Retrieves the requested SAML token issuer.
POST /admin/saml/	Creates a SAML token issuer.
PUT /admin/saml/{current_issuer}	Replaces the SAML token issuer where current_issuer is the name of the token issuer before the replacement operation.
PATCH /admin/saml/{current_issuer}	Updates the SAML token issuer where current_issuer is the name of the token issuer before the update.
DELETE /admin/saml/{issuer}	Deletes the SAML token issuer.
GET admin/urlalias.	Retrieves all URL aliases.
GET /admin/urlalias/{urlAliasName}	Retrieves the requested URL alias.
POST /admin/urlalias/	Creates a URL alias.
PATCH /admin/urlalias/{urlAliasName}	Updates a URL alias.
PUT /admin/urlalias/{urlAliasName}	Replaces a URL alias.
DELETE /admin/urlalias/{urlAliasName}	Deletes a URL alias.

Changed API	Description
POST /admin/port/https/ PATCH /admin/port/https/{alias} PUT /admin/port/https/{alias}	jsseEnabledProtocols is hidden in the response because setting enabled protocols for a port is deprecated beginning with Integration Server 10.7.
	jsseDisabledProtocols is now added to the input/output signature. This parameter identifies the disabled SSL and TLS protocols that are disabled for inbound connections to the port.
	useJSSE was missing from the input signature but is now added.
PUT /admin/quiesce/port	Includes additional options for setting quiesce configuration such as disabling audit logging.

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Added API	Description
GET /admin/account/locking	Retrieves account locking settings.
PATCH /admin/account/locking	Updates account locking settings.
GET /admin/account/password/expiration	Retrieves password expiration settings.
PATCH /admin/account/password/expiration	Updates password expiration settings.
GET /admin/account/password/restriction	Retrieves password restriction settings.
PATCH /admin/account/password/restriction	Updates password restriction settings.
GET /admin/cachemanager/	Retrieves all cache managers.
GET /admin/cachemanager/ {cacheManagerName}	Retrieves a cache manager.
POST /admin/cachemanager/	Creates a cache manager.
POST /admin/cachemanager/ {cacheManagerName}	Stops, starts, or restarts a cache manager.
PATCH /admin/cachemanager/ {cacheManagerName}	Updates a cache manager.
PUT /admin/cachemanager/ {cacheManagerName}	Replaces a cache manager.
DELETE /admin/cachemanager/ {cacheManagerName}	Deletes a cache manager and all caches contained in the cache manager.
GET /admin/cachemanager/ {cacheManagerName}/cache	Retrieves all caches for the requested cache manager.

Added API	Description
GET /admin/cachemanager/{cacheManagerName}/cache/{cacheName}	Retrieves the requested cache.
POST /admin/cachemanager/{cacheManagerName}/cache	Creates a cache.
PATCH /admin/cachemanager/{cacheManagerName}/cache/{cacheName}	Updates a cache.
PUT /admin/cachemanager/{cacheManagerName}/cache/{cacheName}	Replaces a cache.
DELETE /admin/cachemanager/{cacheManagerName}/cache/{cacheName}	Deletes a cache and discards all data in the cache.
GET /admin/certificate/client	Retrieves all client certificate details.
GET /admin/certificate/client/issuer/{issuer}/usage/{usage}/serialNum/{serialNum}	Retrieves details for the requested client certificate.
POST /admin/certificate/client	Imports a client certificate.
PATCH /admin/certificate/client/issuer/{issuer}/oldUsage/{oldUsage}/serialNum/{serialNum}	Updates a client certificate.
PUT /admin/certificate/client/issuer/{issuer}/oldUsage/{oldUsage}/serialNum/{serialNum}	Replaces a client certificate.
DELETE /admin/certificate/client/issuer/{issuer}/oldUsage/{oldUsage}/serialNum/{serialNum}	Deletes a client certificate.
GET /admin/certificate/server	Retrieves server certificate settings.
POST /admin/certificate/server/cache	Clears the cache of current SSL session information.
PATCH /admin/certificate/server	Updates a server certificate.
PUT /admin/certificate/server	Replaces a server certificate.
GET /admin/csrfguard	Retrieves CSRF guard settings
GET /admin/csrfguard/token	Retrieves CSRF secure token.
PATCH /admin/csrfguard	Updates CSRF guard settings
PUT /admin/csrfguard	Replaces CSRF guard settings.
GET /admin/fileaccesscontrol/	Retrieves file access control configuration from fileAccessControl.cnf.
PATCH /admin/fileaccesscontrol/	Updates the file access control configuration in fileAccessControl.cnf.

Added API	Description
GET /admin/globalvariable	Retrieves all global variables.
GET /admin/globalvariable/{key}	Retrieves a specific global variable.
POST /admin/globalvariable	Creates a global variable.
PATCH /admin/globalvariable/{key}	Updates a global variable.
PUT /admin/globalvariable/{key}	Updates a global variable.
DELETE /admin/globalvariable/{key}	Deletes a global variable.
GET /admin/healthgauge/	Retrieves all health indicators.
GET /admin/healthgauge/{indicatorName}	Retrieves information about a particular health indicator.
PATCH /admin/healthgauge/{indicatorName}	Updates a health indicator.
POST /admin/healthgauge/{indicatorName}	Performs an administrative action on a health indicator.
GET /admin/hotdeployment/	Retrieves the hot deployment configuration
PATCH /admin/hotdeployment/	Updates the hot deployment configuration
GET /admin/jdbc/driver/	Retrieves all JDBC driver aliases.
POST /admin/jdbc/driver/	Creates a JDBC driver alias.
GET /admin/jdbc/driver/{driverAliasName}	Retrieves a JDBC driver alias.
PATCH /admin/jdbc/driver/{driverAliasName}	Updates a JDBC driver alias.
PUT /admin/jdbc/driver/{driverAliasName}	Replaces a JDBC driver alias.
DELETE /admin/jdbc/driver/{driverAliasName}	Deletes a JDBC driver alias.
GET /admin/jdbc/function/	Retrieves all JDBC functions.
GET /admin/jdbc/function/{functionAliasName}	Retrieves a JDBC function.
PATCH /admin/jdbc/function/{functionAliasName}	Updates a JDBC function.
POST /admin/jdbc/function/{functionAliasName}	Performs administrative actions on a JDBC function.
GET /admin/jdbc/pool/	Retrieves all JDBC pool aliases.
GET /admin/jdbc/pool/{poolAliasName}	Retrieves a JDBC pool alias.
POST /admin/jdbc/pool/	Creates a JDBC pool alias.
PUT /admin/jdbc/pool/{poolAliasName}	Replaces a JDBC pool alias.

Added API	Description
POST /admin/jdbc/pool/{poolAliasName}	Performs an administrative action on a JDBC pool alias
PATCH /admin/jdbc/pool/{poolAliasName}	Updates a JDBC pool alias.
DELETE /admin/jdbc/pool/{poolAliasName}	Deletes a JDBC pool alias.
GET /admin/jms	Retrieves all JMS connection aliases.
GET /admin/jms/{jmsAliasName}	Retrieves a specific JMS connection alias.
POST /admin/jms	Creates a JMS connection alias.
POST /admin/jms/{jmsAliasName}	Enables or disables a JMS connection alias.
PATCH /admin/jms/{jmsAliasName}	Updates a JMS connection alias.
PUT /admin/jms/{jmsAliasName}	Replaces a JMS connection alias.
DELETE /admin/jms/{jmsAliasName}	Deletes a JMS connection alias.
GET /admin/jmstrigger	Retrieves all JMS triggers.
GET /admin/jmstrigger/{triggerName}	Retrieves a specific JMS trigger.
POST /admin/jmstrigger/{triggerName}	Enables, disables, or suspends all JMS triggers, all JMS triggers of a particular type (standard or SOAP-JMS), or an individual JMS trigger.
GET /admin/jndi	Retrieves all JNDI connection aliases.
GET /admin/jndi/{jndiAliasName}	Retrieves information for a specific JNDI connection alias.
POST /admin/jndi	Creates a JNDI connection alias.
POST /admin/jndi/{jndiAliasName}	Performs an administrative action on a JNDI connection alias.
PATCH /admin/jndi/{jndiAliasName}	Updates a JNDI connection alias.
PUT /admin/jndi/{jndiAliasName}	Replaces a JNDI connection alias.
DELETE /admin/jndi/{jndiAliasName}	Deletes a JNDI connection alias.
GET /admin/jwt/globalsettings	Retrieves the JWT global settings.
PATCH /admin/jwt/globalsettings	Updates the JWT global settings.
GET /admin/jwt/issuer/	Retrieves a list of all trusted issuers for JWT authentication
GET /admin/jwt/issuer/{issuer}	Retrieves a specific trusted issuer for JWT authentication.
POST /admin/jwt/issuer/	Creates a trusted issuer.

Added API	Description
PATCH /admin/jwt/issuer/{issuer}	Updates a trusted issuer.
PUT /admin/jwt/issuer/{issuer}	Replaces a trusted issuer.
DELETE /admin/jwt/issuer/{issuer}	Deletes a trusted issuer.
DELETE /admin/jwt/issuer/{issuer}/issuerSkew	Deletes an issuer-skew mapping.
DELETE admin/jwt/issuer/{issuer}/truststoreAlias/ {truststoreAlias}/certificateAlias/ {certificateAlias}	Deletes an issuer-certificate mapping.
GET /admin/kerberos/	Retrieves the Kerberos configuration.
PATCH /admin/kerberos/	Updates the Kerberos configuration.
GET /admin/ldap/	Retrieves LDAP settings.
PATCH /admin/ldap	Updates LDAP settings.
GET /admin/ldap/dir/	Retrieves all LDAP directory configurations.
GET /admin/ldap/dir/{index}	Retrieves an LDAP directory configuration.
POST /admin/ldap/dir/	Creates an LDAP directory configuration.
PATCH /admin/ldap/dir/{index}	Updates an LDAP directory configuration.
PUT /admin/ldap/dir/{index}	Replaces an LDAP directory configuration.
DELETE /admin/ldap/dir/{index}	Deletes an LDAP directory configuration.
GET /admin/log/{logName}	Retrieves audit logger data.
GET /admin/logger/	Returns a list of all audit loggers.
GET /admin/logger/{loggerName}	Retrieves an audit logger.
POST /admin/logger/{loggerName}	Performs an enable or disable action on an audit logger.
PATCH /admin/logger/{loggerName}	Updates an audit logger configuration.
PUT /admin/logger/{loggerName}	Replaces an audit logger configuration.
GET /admin/logger/server	Retrieves all the top-level components for which the server logger can be configured.
GET /admin/logger/server/{component}	Retrieves the server logger facility codes and logging levels for a particular component.
GET /admin/logger/server/{component}/{facilityCode}	Retrieves the logging level for a top-level component and the logging levels for all the facilities in the component.

Added API	Description
PATCH /admin/logger/server	Updates Default logging level for Integration Server.
PATCH /admin/logger/server/{component}	Updates the default logging level for a top-level component.
PATCH /admin/logger/server/{component}/{facilityCode}	Updates the logging level for a facility code in a component.
GET /admin/messaging	Retrieves all webMethods messaging connection aliases.
GET /admin/messaging/{aliasName}	Retrieves a specific webMethods messaging connection alias.
POST /admin/messaging/	Creates a webMethods messaging connection alias.
POST /admin/messaging/{aliasName}	Enables or disables a webMethods messaging connection alias or sets an alias as the default webMethods messaging connection alias.
PATCH /admin/messaging/{aliasName}	Updates a webMethods messaging connection alias.
PUT /admin/messaging/{aliasName}	Replaces a webMethods messaging connection alias.
DELETE /admin/messaging/{aliasName}	Deletes a webMethods messaging connection alias.
GET /admin/messagingtrigger	Retrieves all webMethods messaging triggers.
GET /admin/messagingtrigger/{triggerName}	Retrieves a particular webMethods messaging trigger.
POST /admin/messagingtrigger/{triggerName}	Activates or suspends message retrieval and/or message processing for a webMethods messaging trigger. Set triggerName to "all" to affect all webMethods messaging triggers
GET /admin/mqtt	Retrieves all MQTT connection aliases.
GET /admin/mqtt/{connectionAliasName}	Retrieves an MQTT connection alias.
POST /admin/mqtt/	Creates an MQTT connection alias.
POST /admin/mqtt/{connectionAliasName}	Performs administrative actions (enable or disable) on an MQTT connection alias.
PATCH /admin/mqtt/{connectionAliasName}	Updates an MQTT connection alias.
PUT /admin/mqtt/{connectionAliasName}	Replaces an MQTT connection alias.
DELETE /admin/mqtt/{connectionAliasName}	Deletes an MQTT connection alias.

Added API	Description
GET /admin/mqtttrigger	Retrieves all MQTT triggers.
GET /admin/mqtttrigger/{triggerName}	Retrieves a specific MQTT trigger.
POST /admin/mqtttrigger/{triggerName}	Enables, disables, or suspends all or a specific MQTT trigger.
DELETE /admin/package/{packageName}	Deletes a package.
GET /admin/port	Retrieves all ports for Integration Server or for a package. This operation does not support the expand parameter.
GET /admin/port/diagnostic	Retrieves a link to the diagnostic port for Integration Server.
GET /admin/port/primary	Retrieves a link to the primary port for Integration Server.
POST /admin/port	Sets the primary port for Integration Server.
GET /admin/port/ipaccess	Retrieves the global IP access settings.
PUT /admin/port/ipaccess	Replaces the global IP access settings.
GET /admin/port/email	Retrieves all email ports.
GET /admin/port/email/{alias}	Retrieves an email port.
POST /admin/port/email	Creates an email port.
POST /admin/port/email/{alias}	Enables or disables an email port.
PATCH /admin/port/email/{alias}	Updates an email port.
PUT /admin/port/email/{alias}	Replaces an email port.
DELETE /admin/port/email/{alias}	Deletes an email port.
GET /admin/port/email/{alias}/ipaccess	Retrieves the IP access settings for an email port.
PUT /admin/port/email/{alias}/ipaccess	Replaces the IP access settings for an email port.
DELETE /admin/port/email/{alias}/ipaccess	Deletes the IP access settings for an email port. Once deleted, the port will use the global IP access settings.
GET /admin/port/email/{alias}/resourceaccess	Retrieves the resource access settings for an email port.
PUT /admin/port/email/{alias}/resourceaccess	Replaces the resource access settings for an email port.
GET /admin/port/enterprisegateway/	Retrieves all Enterprise Gateway ports.

Added API	Description
GET /admin/port/enterprisegateway/{alias}	Retrieves an Enterprise Gateway port.
POST /admin/port/enterprisegateway/	Creates an Enterprise Gateway port.
POST /admin/port/enterprisegateway/{alias}	Enables or disables an Enterprise Gateway port.
PATCH /admin/port/enterprisegateway/{alias}	Updates an Enterprise Gateway port.
PUT /admin/port/enterprisegateway/{alias}	Replaces an Enterprise Gateway port.
DELETE /admin/port/enterprisegateway/{alias}	Deletes an Enterprise Gateway port.
GET /admin/port/enterprisegateway/{alias}/ipaccess	Retrieves the IP access settings for an Enterprise Gateway port.
PUT /admin/port/enterprisegateway/{alias}/ipaccess	Replaces the IP access settings for an Enterprise Gateway port.
GET /admin/port/internalserver/	Retrieves all Internal Server ports.
GET /admin/port/internalserver/{alias}	Retrieves an Internal Server port.
POST /admin/port/internalserver	Creates an Internal Server port.
POST /admin/port/internalserver/{alias}	Enables or disables an Internal Server port.
PATCH /admin/port/internalserver/{alias}	Updates an Internal Server port.
PUT /admin/port/internalserver/{alias}	Replaces an Internal Server port.
DELETE /admin/port/internalserver/{alias}	Deletes an Internal Server port.
GET /admin/port/internalserver/{alias}/resourceaccess	Retrieves the resource access settings for an Internal Server port.
PUT /admin/port/internalserver/{alias}/resourceaccess	Replaces the resource access settings for an Internal Server port.
GET /admin/port/http/	Retrieves all HTTP ports.
GET /admin/port/http/{alias}	Retrieves an HTTP port.
POST /admin/port/http/	Creates an HTTP port.
PATCH /admin/port/http/{alias}	Updates an HTTP port.
PUT /admin/port/http/{alias}	Replaces an HTTP port.
DELETE /admin/port/http/{alias}	Deletes an HTTP port.
POST /admin/port/http/{alias}	Enables, disables, suspends, or resumes an HTTP port.

Added API	Description
GET /admin/port/http/{alias}/ipaccess	Retrieves the IP access settings for an HTTP port.
PUT /admin/port/http/{alias}/ipaccess	Replaces the IP access settings for an HTTP port.
DELETE /admin/port/http/{alias}/ipaccess	Deletes the IP access settings for an HTTP port. Once deleted, the port will use the global IP access settings.
GET /admin/port/http/{alias}/resourceaccess	Retrieves the resource access settings for an HTTP port.
PUT /admin/port/http/{alias}/resourceaccess	Replaces the resource access settings for an HTTP port.
GET /admin/port/https/	Retrieves all HTTPS ports.
GET /admin/port/https/{alias}	Retrieves an HTTPS port.
POST /admin/port/https/	Creates an HTTPS port.
PATCH /admin/port/https/{alias}	Updates an HTTPS port.
PUT /admin/port/https/{alias}	Replaces an HTTPS port.
DELETE /admin/port/https/{alias}	Deletes an HTTPS port.
POST /admin/port/https/{alias}	Enables, disables, suspends, or resumes an HTTPS port.
GET /admin/port/https/{alias}/ipaccess	Retrieves the IP access settings for an HTTPS port.
PUT /admin/port/https/{alias}/ipaccess	Replaces the IP access settings for an HTTPS port.
DELETE /admin/port/https/{alias}/ipaccess	Deletes the IP access settings for an HTTPS port. Once deleted, the port will use the global IP access settings.
GET /admin/port/https/{alias}/resourceaccess	Retrieves the resource access settings for an HTTPS port.
PUT admin/port/https/{alias}/resourceaccess	Replaces the resource access settings for an HTTPS port.
GET /admin/port/websocket	Retrieves all WebSocket and WebSocketSecure ports.
GET /admin/port/websocket/{alias}	Retrieves a WebSocket or WebSocketSecure port.
POST /admin/port/websocket	Creates a WebSocket or WebSocketSecure port.
POST /admin/port/websocket/{alias}	Enables or disables a WebSocket or WebSocketSecure port.
PATCH /admin/port/websocket/{alias}	Updates a WebSocket or WebSocketSecure port.

Added API	Description
PUT /admin/port/websocket/{alias}	Replaces a WebSocket or WebSocketSecure port.
DELETE /admin/port/websocket/{alias}	Deletes a WebSocket or WebSocketSecure port.
GET /admin/port/websocket/{alias}/ipaccess	Retrieves the IP access settings for a WebSocket or WebSocketSecure port.
PUT /admin/port/websocket/{alias}/ipaccess	Replaces the IP access settings for a WebSocket or WebSocketSecure port.
DELETE /admin/port/websocket/{alias}/ipaccess	Deletes the IP access settings for a WebSocket or WebSocketSecure port. Once deleted, the port will use the global IP access settings.
GET /admin/port/websocket/{alias}/resourceaccess	Retrieves the resource access settings for a WebSocket or WebSocketSecure port
PUT /admin/port/websocket/{alias}/resourceaccess	Replaces the resource access settings for a WebSocket or WebSocketSecure port.
GET /admin/proxy/	Retrieves all proxy server aliases.
GET /admin/proxy/{proxyAlias}	Retrieves a proxy server alias.
POST /admin/proxy/	Creates a proxy server alias.
POST /admin/proxy/{proxyAlias}	Performs administrative actions on a proxy server alias.
PATCH /admin/proxy/{proxyAlias}	Updates a proxy server alias.
PUT /admin/proxy/{proxyAlias}	Replaces a proxy server alias.
DELETE /admin/proxy/{proxyAlias}	Deletes a proxy server alias
GET /admin/quiesce/	Retrieves the current server mode (active or quiesce) and the quiesce port.
POST /admin/quiesce/	Enters the Integration Server into quiesce mode from active mode or exits it from quiesce mode to active mode.
POST /admin/quiesce/port	Sets the specified port as the quiesce port.
GET /admin/scheduledtask/	Retrieves all scheduled user tasks.
GET /admin/scheduledtask/{taskId}	Retrieves a scheduled user task.
POST /admin/scheduledtask/	Creates a scheduled task.
POST /admin/scheduledtask/{taskId}	Suspends, wakes up, or cancels a scheduled task.
PATCH /admin/scheduledtask/{taskId}	Updates a scheduled task
PUT /admin/scheduledtask/{taskId}	Replaces a scheduled task.

Added API	Description
DELETE admin/scheduledtask/{taskId}	Deletes a scheduled task.
GET /admin/scheduler	Retrieves the current scheduler state (running or paused) and a list of scheduled tasks.
POST /admin/scheduler	Resumes or pauses scheduler.
GET /admin/server/httpout	Retrieves outbound HTTP settings.
PATCH /admin/server/httpout	Updates outbound HTTP settings.
GET /admin/server/memory	Retrieves available memory information for Integration Server
GET /admin/server/notification	Retrieves email notification settings.
PATCH /admin/server/notification	Updates email notification settings.
GET /admin/server/session	Retrieves the session settings.
PATCH /admin/server/session	Updates the session settings.
GET /admin/server/setting	Retrieves values for all extended settings in Integration Server.
GET /admin/server/setting/{settingName}	Retrieves the value of a specific extended setting.
POST /admin/server/setting	Resets specified extended settings to their default values.
PATCH /admin/server/setting/{settingName}	Updates an extended setting.
PATCH /admin/server/setting/	Updates multiple extended settings
PUT /admin/server/setting/	Updates multiple extended settings.
GET /admin/server/sso	Retrieves the MWS single sign-on setting
PATCH /admin/server/sso	Updates the MWS single sign-on setting
GET /admin/server/threadpool	Retrieves server threadpool settings.
PATCH /admin/server/threadpool	Updates server threadpool settings.
GET /admin/sftpserver	Retrieves all SFTP server aliases.
GET /admin/sftpserver/{alias}	Retrieves a specific SFTP server alias.
POST /admin/sftpserver	Creates an SFTP server alias.
PATCH /admin/sftpserver/{alias}	Updates an SFTP server alias.
PUT /admin/sftpserver/{alias}	Replaces an SFTP server alias.
DELETE /admin/sftpserver/{alias}	Deletes an SFTP server alias.
GET /admin/sftpuser	Retrieves all SFTP user aliases.

Added API	Description
GET /admin/sftpuser/{alias}	Retrieves a specific SFTP user alias.
POST /admin/sftpuser	Creates an SFTP user alias.
PATCH /admin/sftpuser/{alias}	Updates an SFTP user alias.
PUT /admin/sftpuser/{alias}	Replaces an SFTP user alias.
DELETE /admin/sftpuser/{alias}	Deletes an SFTP user alias.
GET /admin/user/	Retrieves all user accounts.
GET /admin/user/{username}	Retrieves a user account.
POST /admin/user/	Creates a user account.
POST /admin/user/{username}	Enables or disables a user account.
PATCH /admin/user/{username}	Updates a user account.
PUT /admin/user/{username}	Replaces a user account.
DELETE /admin/user/{username}	Deletes a user account.

Changed API	Description
GET /admin/server	Now returns information indicating if and why a server restart is needed for configuration changes to take effect.
POST /admin/package/{packageName}	Now supports the administrative actions archive and recover.

Release 10.5

Added API	Description
GET /admin/license/	Retrieves license information.
POST /admin/license/	Updates Integration Server license key file or Terracotta license file.
PUT /admin/license/	Updates Integration Server license key file or Terracotta license file.
PATCH /admin/license/	Updates Integration Server license key file or Terracotta license file.
GET /admin/package	Retrieves all packages.
GET /admin/package/{packageName}	Gets package information for a package.

Added API	Description
POST /admin/package/{packageName}	Performs an administrative action on a package where the action can be: disable, enable, reload, or activate.
GET /admin/server	Retrieves information about Integration Server.
POST /admin/server	Performs administrative actions on Integration Server where the action can be: stop, restart, restartQuiesce, quiesce, exitQuiesce.
GET /admin/server/diagnostics	Returns a diagnostic archive as a ZIP attachment.
GET /admin/server/updates	Retrieves information about fixes installed on Integration Server.
GET /admin/swagger/{productName}	Retrieves the Swagger document for a product's API.
GET /admin/swagger	Retrieves the Swagger documents for all administrative APIs in Integration Server.

13.0 Copyright Information

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14.0 Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the Tech Community website to access additional articles, demos, and tutorials, technical

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information, samples, useful resources, online discussion forums, and more.

IS-RM-1011-20211015

webMethods Microgateway 10.11 Readme

October 2021

This file contains important information you must read before using webMethods Microgateway 10.11. You can find system requirements, user documentation, and installation and upgrade instructions on the [Documentation website](#) or the [TECHcommunity website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0   Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0   Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

3.0   Usage Notes

This section provides any additional information you need to work with the current release of this product.

4.0   Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to Knowledge Center on the [Empower website](#) for detailed information about fixes.

Release 10.7

- YAM_10.7_Fix6

Release 10.5

- YAM_10.5_Fix15

Release 10.3

- YAM_10.3_Fix24

5.0   Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

- YAI -21801 - Inactive Microgateways are not cleaned up properly in API Gateway.

  This issue has been fixed by introducing heart beat requests sent by Microgateway to API Gateway. Registrations of inactive Microgateways are removed after 3 minutes.

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.3

The following artifact have been introduced for Microgateway 10.3

- webMethods Microgateway User's Guide

7.0   Terminology Changes

A release is listed in this section only if changes occurred in that release.

8.0   Added, Removed, Deprecated, or Changed Items

This section lists features, functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in the section only if changes occurred in that release.

Release 10.7

Added Item	Description
Support for AppMesh in Microgateway	Microgateway is enhanced to support the service mesh architectures offering independent and sidecar deployment.

Changed Item	Description
Change in policy names and labels	Some of the policy names are changed as follows: ▪ Identify & Authorize Application is renamed to Identify & Authorize ▪ Outbound Authentication – Transport is renamed to Outbound Auth – Transport ▪ Outbound Authentication – Message is renamed to Outbound Auth – Message ▪ Monitor Service Performance is renamed to Monitor Performance ▪ Monitor Service Level Agreement is renamed to Monitor Level Agreement ▪ Throttling Traffic Optimization is renamed to Traffic Optimization ▪ Context-based Routing is renamed to Conditional Routing

Release 10.5

Added Item	Description
Support for additional response processing policies	Microgateway supports the Validate API Specification policy.
Support for additional request processing policies	Microgateway supports the Validate API Specification policy.

Added Item	Description
Support for additional traffic monitoring policies	Microgateway supports the following traffic monitoring policies: • Monitor Service Performance • Monitor Service Level Agreement
Enhanced routing policy support	Microgateway supports HTTP Transport security aliases for outbound authentication and service discovery during routing.
Enhanced IAM policy support	Microgateway supports the Authorize User policy and the following application identification types for the Identify & Authorize Application policy: • Hostname Address • IP Address Range • Payload element • SSL certificate
SSL enhancements	Microgateway provides improved SSL support including the provisioning of SSL truststore and keystores from API Gateway.
Enhanced Prometheus metrics	Microgateway exposes server and JVM runtime metrics in a Prometheus compatible format.
Improved Kubernetes support	Microgateway supports the configuration of all alias types through environment variables. This simplifies the configuration of Microgateway containers in Kubernetes deployment files.

Changed Item	Description
Service registry configuration	The configuration of service registries has changed to enable the configuration of service registries through environment variables. The Microgateway configuration does not support a list of service registry configurations any longer, but now supports a map holding service registry configurations. Each entry is identified by the name of the service registry configuration.

The Microgateway does not register all APIs to the configured service registries by default. The registration must be configured explicitly. |
| Alias configuration | The configuration of aliases has changed to enable the configurations of aliases through environment variables. The Microgateway configuration does not support a list of alias configurations any longer, but now supports a map holding alias configurations. Each entry is identified by the alias name. |

Release 10.4

Added Item	Description
Administration configuration enhancements	Microgateway offers improved configuration capabilities. Microgateway configuration can now be configured using a single settings YAML file.
Microgateway management in API Gateway	Microgateways connecting to an API Gateway are registered and exposed in the API Gateway UI. The API Gateway UI now displays the provided APIs and the runtime per Micogateway.
Support API scoping and resource-level policies	Microgateway supports API scoping and resource and method level policy enforcement.
Support for additional IAM policies	Microgateway supports OAuth, JWT, and OpenID policies.
Support request processing policies	Microgateway supports the request processing policies: ▪ Request Transformation and ▪ Data Masking
Support additional routing policies	Microgateway supports the following routing policies: ▪ Content-based routing ▪ Context-based routing ▪ Outbound Authentication (Basic, OAuth, JWT, Anonymous) ▪ Service registry support (also for Straight Through routing)
Support response transformation policies	Microgateway supports the following response processing policies: ▪ Response Transformation ▪ Data Masking ▪ CORS
Support additional error handling policies	Microgateway supports the Data Masking error handling policy.

Added Item	Description
Docker enhancements for Microgateway	Microgateway provides improved Docker support including: ▪ Dynamic configuration of Docker images via environment variables ▪ Health checks and graceful shutdown ▪ Improved sidecar deployment ▪ Improved micro service runtime support
Kubernetes support for Microgateway	Microgateway provides support for Kubernetes including: ▪ Health and readiness checks ▪ Prometheus metrics ▪ Scripting support for Kubernetes deployment

Changed Item	Description
Usage of Extended settings in API Gateway archive	Extended settings contained in API Gateway archives are no longer considered.
retain_settings	The parameter retain_settings is ignored.

Release 10.3

Added Item	Description
Microgateway provisioning	The Microgateway provisioning allows customers to create multiple Microgateway instances from a single Microgateway installation. The Microgateway provisioning comes in 2 flavors: ▪ Instance based provisioning ▪ Docker based provisioning
Asset provisioning	The Microgateway can be configured with assets including APIs, policies applications and aliases. Assets can be provisioned by reading them from a running API Gateway or by reading API Gateway export archives available on the file system.
Runtime policy enforcement	The Microgateway supports a basic set or runtime policies including: Require HTTP or HTTPS, Inbound Authentication - Transport, Identify and Authorize Application, Straight Through Routing, Log Invocation and Conditional Error Processing.

9.0   Copyright Information

10.0 Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the TECHcommunity website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

YAM-RM-1011-20211015

webMethods Microservices Runtime 10.11 Readme

October 2021

This file contains important information you must read before using webMethods Microservices Runtime 10.11. You can find system requirements, user documentation, and installation and upgrade instructions on the [Documentation website](#) or the [Tech Community website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

webMethods Microservices Runtime provides a superset of the functionality available in webMethods Integration Server. Review the webMethods Integration Server 10.11 readme for information about webMethods Integration Server 10.11

1.0   Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0   Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

None.

3.0   Usage Notes

This section provides any additional information you need to work with the current release of this product.

- Beginning with the 10.7 release, webMethods Integration Agent is no longer available. Use webMethods Microservices Runtime instead.

- As of Microservices Runtime version 10.4, Microservices Runtime receives runtime configuration settings, such as the Java heap size, from setenv.bat/sh. This change is due to the removal of the OSGI platform from Microservices Runtime.

  Command Central cannot be used with Microservices Runtime because Microservices Runtime no longer includes the OSGi.

  Additionally, because Microservices Runtime does not support running multiple instances on the same host machine under the same Software AG_directory, the Microservices Runtime directory structure no longer includes the following directories:

  Integration Server_directory/instances/instanceName

  If you need to modify the default property settings for Microservices Runtime, edit the Integration Server_directory\setenv.bat(sh) file. The following table shows the settings formerly set in the custom_wrapper.conf file that are now set using the setenv.bat/sh file:

This property in custom_wrapper.conf…	Is replaced by this setting in setenv.bat/sh…
wrapper.java.additional.203=-Dwatt.server.append.classes=	APPENDCLASSES
wrapper.java.additional.n	JAVA_CUSTOM_OPTS
wrapper.java.additional.n=XX:MaxDirect MemorySize=	JAVA_CUSTOM_OPTS

wrapper.java.maxmemory	JAVA_MAX_MEM
wrapper.java.initmemory	JAVA_MIN_MEM
wrapper.java.additional.202=-Dwatt.server.prepend.classes=	PREPENDCLASSES.

The following table shows settings you can change that were formerly in the wrapper.conf, custom_wrapper.conf, but are now located in other files or removed

Setting	New location (if applicable)
Running Microservices Runtime in Debug Mode	Integration Server_directory\bin\startDebugMode.bat(sh)
Java location	JAVA_DIR property in Integration Server_directory\bin\setenv.bat(sh)
JMX_ENABLED	Integration Server_directory\bin\setenv.bat(sh)
JMX_PORT	Integration Server_directory\bin\setenv.bat(sh)

Additionally, the following files are now located in Integration Server_directory\bin:

jcode.bat(sh)
startDebugMode.bat(sh)
server.bat(sh)
startup.bat(sh)
shutdown.bat(sh)

- As of Microservices Runtime version 10.3, Microservices Runtime creates two predefined URL aliases named "health" and "metrics" which correspond to the health gauge and metrics gathering capabilities respectively. Software AG does not recommend editing the predefined "health" or "metrics" URL aliases.

- If you migrate to Microservices Runtime version 10.3 or higher from an earlier version and you already have a URL alias named "health" and/or "metrics", Microservices Runtime does not create a health and/or metrics URL alias. Any invocations of the health or metrics endpoints will not result in execution of health indicators or metrics gathering, respectively. If you want to use the health gauge and/or metrics gathering, you need to rename your existing health URL alias. Microservices Runtime will create a new health and/or metrics URL alias that corresponds to the health endpoint and/or metrics functionality upon restart.

4.0   Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Release 10.1

▪ IS_10.0_WmConsul_Fix1

5.0   Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.7

▪ The *webMethods Integration Agent Administrator's Guide* is no longer delivered with the webMethods Microservice Runtime and webMethods Integration Server documentation sets as webMethods Integration Agent is no longer available beginning with the 10.7 release. Microservices Runtime can be used in place of Integration Agent.

Release 10.2

▪ The *Developing Microservices with webMethods Microservices Container* guide has been renamed *Developing Microservices with webMethods Microservices Runtime* to reflect the product name change from webMethods Microservices Container to webMethods Microservices Runtime.

Release 10.0

▪ Information about using webMethods Microservices Container is located in *Developing Microservices with webMethods Miroservices Container*.

7.0   Terminology Changes

A release is listed in this section only if changes occurred in that release.

Release 10.2

Old Term	New Term
webMethods Microservices Container	webMethods Microservices Runtime

8.0 Added, Removed, Deprecated, or Changed Items

This section lists features, functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 10.11

Added Item	Description
Kubernetes Secret can be used in a configuration variables file.	The key for a Secret can be used as a property value in the configuration variables file that is passed into a Microservices Runtime running in a Docker container.
sag_is_number_service_errors_excluding_ internal_svc_per_minute	New Prometheus metric returned by /metrics endpoint. The number of service errors in the last minute excluding services that belong to a package specified in watt.server.stats.packages.exclude.
Metrics for layered products can be returned when the /metrics endpoint is invoked	Metrics for layered products can be gathered and returned when the /metrics endpoint is called. For a list and description of metrics returned by layered products, consult the documentation for those products.
Docker image for Microservices runtime can exclude web services functionality.	The is_container script for building a Docker image now includes an optional argument . -Dexclude.components to exclude the web services functionality while building a Docker image for Microservices Runtime.
New configuration variables for the Dashboard configuration	A configuration variables template now includes variables for the Dashboard configuration
Broker connection alias can be created via a configuration variable template.	A Broker connection alias can now be created by applying a configuration variables templates. Additionally, more configuration details can now be specified such as Broker host and name. Previously only a username and password could be set in a configuration variables template. .

Release 10.7

Added Item	Description
Adding assets via application of a configuration variables template	A configuration variables template can now be used to add assets to a Microservices Runtime and set asset properties that were previously not set. Prior to this release, only existing asset properties could be modified.
New configuration variable for JDBC functional alias	A configuration variables template now includes configuration variables JDBC functional aliases.
SAG_IS_HEALTH_ENDPOINT_ACL environment variable	Access Control List (ACL) whose members can access invoke the health gauge endpoint /health.
SAG_IS_METRICS_ENDPOINT_ACL environment variable	Access Control List (ACL) whose members can invoke the metrics endpoint /metrics.
Additional Prometheus metrics	When the metrics endpoint is invoked, Microservices Runtime returns new metrics about the JVM, disk space usage, and sessions.

Changed Item	Description
ACL for health gauge and metrics endpoints in Docker container	For a Microservices Runtime or Integration Server running in a Docker container created using the is_container.bat/sh script, the default ACL for accessing the health gauge or metrics endpoint is "Anonymous", which means authentication is not required when the endpoint is invoked. For all other Microservices Runtimes and Integration Servers, the default is "Administrator".

Release 10.5

Added Item	Description
Cluster health indicator	Microservices Runtime now includes a cluster health indicator that returns a status of UP if the number of available servers in the cluster is greater than or equal to a specified minimum.
Istio service mesh support	Microservices Runtime supports Istio service mesh.

Added Item	Description
Updated scripts for OpenShift support	Updated scripts on Software AG GitHub site (https://github.com/SoftwareAG/) allow users to run, scale and manage the Microservices Runtime using the OpenShift container platform.
Prometheus metrics for service execution.	The Microservices Runtime metrics endpoint returns new metrics for service execution including the number of invokes and the number of errors.

Release 10.4

Added Item	Description
New configuration variable properties	A configuration variables template now includes configuration variables for properties in health indicators, Universal Messaging connection aliases for native messaging, user accounts, and Consul Registry Server aliases.
Prometheus metrics for packages, service request duration, and CloudStreams connectors	The Microservices Runtime metrics endpoint returns new metrics for the number of packages, services, and CloudStreams connectors. The endpoint also returns metrics about service request durations.

Removed Item	Replacement, if any
Microservices Runtime no longer uses OSGi platform	None.
Microservices Runtime no longer uses the Java Service Wrapper or the configuration files wrapper.conf and custom_wrapper.conf for property settings.	Set Java system properties are set in Integration Server_directory/bin/setenv.bat(sh) using the JAVA_CUSTOM_OPTS property.
Microservices Runtime cannot be run as a Windows service.	An Integration Server equipped with a Microservices Runtime license can be run as a Windows service.
Microservices Runtime cannot be used with Digital Event Services.	An Integration Server equipped with a Microservices Runtime license can be used with Digital Event Services.
Microservices Runtime cannot be used with the Event Routing feature.	An Integration Server equipped with a Microservices Runtime license can be used with the Event Routing feature.

Removed Item	Replacement, if any
Microservices Runtime cannot be used with Command Central.	An Integration Server equipped with a Microservices Runtime license can be used with Command Central.

Changed Item	Description
Microservices Runtime directory structure	Because Microservices Runtime no longer uses the OSGi platform, a Microservices Runtime installation does not include the following directory: Integration Server_directory/profiles
	Because Microservies Runtime does not support running multiple instances on the same host machine under the same Software AG_directory., the Microservices Runtime directory structure does not include the following directories:
	Integration Server_directory/instances/instanceName
Windows Start Menu Commands	When running Microservices Runtime on Windows, the Windows start menu commands no longer include the instanceName. Microservices Runtime does not support running multiple instances on the same host machine under the same Software AG_directory.
A JMX port is no longer enabled by default for Microservices Runtime	Manually enable the JMX port by editing the IntegrationServer_directory/bin/setenv.bat(sh) file.

Release 10.3

Added Item	Description
Configuration Variables Template	A configuration variables template is a properties file that contains configuration data as a series of key-value pairs where the key name reflects the asset and particular asset property for which you can supply a value. The property values are set in the template and then applied by a Microservices Runtime at startup. By externalizing configuration information, a single Docker image created for a Microservices Runtime can be used across multiple environments, including different stages of the production cycle.

Added Item	Description
Automatic Package Deployment	Automatic deployment of packages allows Microservices Runtime to install or upgrade packages automatically without needing to use Deployer or Microservices Runtime Administrator. Automatically deploying packages can be particularly useful for a Microservices Runtime that runs in a Docker container because it allows new or updated packages to be automatically added to the Microservices Runtime running the container which removes the requirement to rebuild the Docker image each time you want to add or update a package.
Health Gauge	The health gauge returns an overall UP or DOWN status for the Microservices Runtime based on the collective status of enabled health indicators. When the health endpoint is invoked, Microservices Runtime executes all of the enabled health indicators. A health indicator determines the UP or DOWN status of a specific component of Microservices Runtime. If all of the health indicators return an UP status, the entire Microservices Runtime is considered to be up. If even one of the health indicators returns a DOWN status, the entire Microservices Runtime is considered to be down.
Metrics Gathering for Prometheus	Microservices Runtime includes a metrics endpoint that, when invoked, generates metrics about the server and services on the server. Microservices Runtime returns the statistics in a Prometheus format which the Prometheus server can use to provide insight to the operation of the Microservices Runtime and the services it contains.

Release 10.2

Added Item	Description
Circuit Breaker	The circuit breaker feature provides the ability to configure a circuit breaker for any service residing on a Microservices Runtime or an appropriately licensed Integration Server.

Release 10.0

Added Item	Description
WmConsul Package	Package used for configuring connections to Consul. The WmConsul package also contains public services for registering and deregistering microservices containers as well as locating a host for a specific microservice.

9.0   Added, Removed, Deprecated, or Changed Built-In Services

A release is listed in this section only if changes occurred in that release.

Release 10.0

Added Service	Description
pub.consul.client:deregisterService	WmConsul. Deregisters a microservice from a Consul server.
pub.consul.client:getAllHostsForService	WmConsul. Queries the Consul server for a list of active hosts that have registered the given microservice with Consul.
pub.consul.client:getAnyHostForService	WmConsul. Queries the Consul server for a list of active hosts that have registered the given microservice with Consul and if there are multiple hosts for this microservice, randomly return one of those hosts.
pub.consul.client:registerService	WmConsul. Registers a microservice with a Consul server. Use as a startup service for the package being registered as a microservice.

10.0 Added, Removed, Deprecated, or Changed Parameters

A release is listed in this section only if changes occurred in that release.

Release 10.3

Added Parameter	Description
watt.server.autodeploy.alwaysUseHotDeployment	Specifies whether Microservices Runtime always uses hot deployment for automatic deployment of packages.

Added Parameter	Description
watt.server.autodeploy.enabled	Specifies whether automatic deployment of packages is enabled or disabled for Microservices Runtime.
watt.server.autodeploy.interval	Specifies the interval, measured in minutes, at which Microservices Runtime executes the autodeploy system task to check for new or updated packages to deploy.

Release 10.2

Added Parameter	Description
watt.server.circuitBreaker.threadPoolMax	Specifies the maximum number of threads that the server maintains in the circuit breaker thread pool.
watt.server.circuitBreaker.threadPoolMin	Specifies the minimum number of threads that the server maintains in the circuit breaker thread pool.

11.0 Copyright Information

12.0 Support

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information, samples, useful resources, online discussion forums, and more.

WMIC-RM-1011-20211015

webMethods Mobile Suite 10.11 Readme

October 2021

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1.0 Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0   Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

- MOBILE-4063
  When executing a Jenkins build, the live console output of the build will only be available in Software AG Designer if CSRF/XSS protection is disabled in your Jenkins server. If CSRF/XSS protection is enabled, the URL to the Jenkins console log is shown instead.
  As a workaround, open the Jenkins console in your browser.

- MOBILE-5646
  When refreshing the mobile project outside of Software AG Designer (e.g. activate-handset ANT Task), PNG icons derived from asset resource files may be deleted. This is most likely to happen when the .classpath file of the project is out of sync with Software AG Designer.
  As a workaround, open and then re-save the asset files to create the derived PNG icons again.

- MOBILE-5665
  When running Mobile Designer/Mobile Development on a filesystem that is strictly case-sensitive (i.e.: most Linux distributions), projects that make use of the Mobile Designer "Plugins" folder may show errors because they are unable to find that folder. The folder is erroneously named "plugins". As a workaround, create a symbolic link called "Plugins" in the root of the Mobile Designer install that points to the existing "plugins" directory.

3.0   Usage Notes

This section provides any additional information you need to work with the current release of this product.

- Mobile Designer will detect installations of Xcode as well as Android Studio and Android SDK automatically. However, if automatic detection fails or if you want to use different locations, update the according properties of the *sdk.properties* file in the root of your Mobile Designer installation. Note that on the Linux platform, the automatic detection is not supported and updating the *sdk.properties* file is mandatory for using Multi-Build or Run in Simulator features.

- The new ConstraintLayout templates are not available for simulation in Phoney. For user interface preview, use the integrated preview in Outline or the Layout Builder for the template. To test the ConstraintLayout templates at run time, do a simulator Multi-Build and use the new Run in Simulator action available in the Mobile Tools context menu item.

- As of Mobile Designer 10.1, the new run time does not use the Mobile Designer Midlet Thread that was used in all versions up to 9.12 for synchronizing user interface updates in the application. Instead, it now utilizes the main thread provided by the particular native platform for all user interface operations and synchronization. All operations now run on the (native) main thread. This is important for performance of the application and user experience. As in native applications, all heavy operations now need to run on new threads so as not to block the user interface during

execution. A set of new APIs (runAsync() and ICallable) was introduced to make it easy to execute operations in new threads and synchronizing back to the main thread.

- It is also important to note that in case the user interface is not updated automatically, running syncUI() on nUIViewDisplay will synchronize all changes and update the user interface

4.0   Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Mobile Designer

Release 10.11

- WWW_9.12_MobileDesigner_Fix8

- WWW_10.1_MobileDesigner_Fix6

- WWW_10.3_MobileDesigner_Fix5

Release 10.3

- WWW_9.12_MobileDesigner_Fix7

- WWW_10.1_MobileDesigner_Fix4

Release 10.1

- WWW_9.12_MobileDesigner_Fix3

Mobile Development

Release 10.11

- WWG_9.12_MobileDevelopment_Fix4

- WWG_10.1_MobileDevelopment_Fix3

- WWG_10.3_MobileDevelopment_Fix6

Release 10.3

- WWG_9.12_MobileDevelopment_Fix4

- WWG_10.1_MobileDevelopment_Fix3

Release 10.1

- WWG_9.12_MobileDevelopment_Fix3

5.0   Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Mobile Designer

Release 10.11

- MOBILE-5364
  'Last Week' and 'Last Month' time periods were not supported.
  Fix for iOS applications crashing on startup with a CALayer that contains NaN-values for its position.

- MOBILE-5597
  Vulnerable 3rd party Commons-IO component was used.
  Updated vulnerable 3rd party library 'Apache Commons-IO' to a later version.

- MOBILE-5598
  Vulnerable 3rd party Gradle component was used.
  Updated vulnerable 3rd party Gradle Wrapper and minimum Gradle used to later versions.

- MOBILE-5599
  Vulnerable 3rd party HTTP Client component was used.
  Updated vulnerable 3rd party library 'Apache HTTP Client' to a later version.

- MOBILE-5600
  Vulnerable 3rd party Groovy-all component was used.
  Updated vulnerable 3rd party library 'Apache Groovy' to a later version.

- MOBILE-5601
  Vulnerable 3rd party Guava component was used.
  Updated vulnerable 3rd party library 'Google Guava' to a later version.

- MOBILE-5602
  Vulnerable 3rd party Log4J component was used.
  Updated vulnerable 3rd party library 'Apache Log4J' to a later version.

- MOBILE-5603
  Vulnerable 3rd party Jackson Databind component was used.

Updated vulnerable 3rd party library 'FasterXML Jackson Databind' to a later version.

Mobile Development

Release 10.11

- MOBILE-5643
  Vulnerable 3rd party Jackson Databind component was used.
  Updated vulnerable 3rd party library 'FasterXML Jackson Databind' to a later version.

- MOBILE-5644
  Vulnerable 3rd party Eclipse component was used.
  Removed dependency to an older Eclipse core version.

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Mobile Designer

Release 10.11

- All sample project mentions except for NativeUIDemoNew have been removed as they are no longer supported

- The documentation was updated.

Release 10.3

- Mobile Administrator guides were removed from the Mobile Suite documentation.

- Windows, Windows Phone, and Windows RT mentions were removed as the Windows platform is no longer supported.

- New Jenkins build feature was documented.

- Documentation was restructured.

Release 10.1

- The documentation was updated.

Mobile Development

Release 10.11

- The documentation was updated.

Release 10.3

- Mobile Administrator guides were removed from the Mobile Suite documentation.

- Windows, Windows Phone, and Windows RT mentions were removed as the Windows platform is no longer supported.

- New Jenkins build feature and new run configurations were documented.

- New Run in Simulator/Run in Emulator features were documented.

- New Constraint Layout feature was documented.

- Documentation was restructured.

Release 10.1

- The documentation was updated

7.0   Terminology Changes

A release is listed in this section only if changes occurred in that release.

8.0   Added, Removed, Deprecated, or Changed Items

This section lists features, functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Mobile Designer

Release 10.11

Removed Item	Replacement
Support for the legacy Cross Compiler	New Cross Compiler

9.0 Added, Removed, Deprecated, or Changed Parameters

A release is listed in this section only if changes occurred in that release.

Mobile Designer

Release 10.3

Build Related Parameter (_defaults_.xml)

Added Parameter	Description
android.keystore.properties.file	
android.release.keystore.file	Location of the keystore file used for signing the build
android.release.keystore.password	Passphrase used to unlock the keystore
android.release.key.alias	The alias of the key required for signing this build
android.release.key.password	The password used for the key alias
android.studio.gradle.android.plugin.version	Controls the version of the Gradle plugin that is used when doing Gradle builds with Android Studio.
android.studio.gradle.distribution.url	
ios.appstore.method	
ios.provisioning.profile.appstore	Points to provisioning profile for an App Store build.
ios.provisioning.profile.adhoc	Points to provisioning profile for an ad-hoc build.
ios.provisioning.profile.development	Points to provisioning profile for a development build.
ios.signing.identity.development	Use this signing identity for development builds. If empty, the signing identity from the provisioning profile will be used.
ios.signing.identity.distribution	Use this signing identity for Appstore, Enterprise and ad-hoc builds. If empty, the signing identity from the provisioning profile will be used.
ios.xcode.managed.signing	If set it to true, Xcode will manage code signing automatically. You also need to provide a Team ID.
ios.xcode.managed.signing.team.uid	Team ID for managed signing in Xcode

Removed Parameter	Description
ios.xcode.app.path	Xcode installation will now be detected automatically.
ios.devcodesign	Replaced by ios.signing.identity.development
ios.distcodesign	Replaced by ios.signing.identity.distribution
ios.adhocprov	Replaced by ios.provisioning.profile.adhoc
ios.appstoreprov	Replaced by ios.provisioning.profile.appstore
microsoft.windows8.phone.path	Removed Windows platform support
winphone.sdk.version	Removed Windows platform support
microsoft.net.framework.path	Removed Windows platform support
microsoft.xna.game.studio.path	Removed Windows platform support
microsoft.ilmerge.path	Removed Windows platform support
microsoft.winphone.profile.path	Removed Windows platform support
microsoft.winphone.toolkit.7.0.path	Removed Windows platform support
microsoft.winphone.toolkit.8.0.path	Removed Windows platform support
microsoft.sdk.winphone.extensions.sqlite	Removed Windows platform support
microsoft.sdk.winrt.extensions.sqlite	Removed Windows platform support

Build Related Parameter (+Target-build)

Added Parameter	Replacement, if any
pprofile	Optional. Defines path to the iOS provisioning profile. The build type (AppStore, Enterprise, ad-hoc or development) will be deduced automatically.
keychain	Optional. Defines path to the iOS keychain including signing certificates.
extraXcodeArgs	Optional. Extra parameters for passed to iOS xcodebuild tool for generating Xcode archives.
buildnumber	Optional. Defines build number used for when running +Target-Build.

Release 10.1

Build Related Properties (_defaults_.xml)

Added Parameter	Description
android.manifest.permissions.exclude.SEND_SMS	To remove SMS_SEND permission form AndroidManifest.
ios.pn.device_token.style	Use via RuntimeInfo.setProperty() with value "raw" to get unformatted push tokens.
project.runtime.uses.nativeui.phoney	Enable to use new run-time classes.

Deprecated Parameter	Replacement
project.handset.output.preedit.dir.root	
project.handset.output.postedit.dir.root.default	

10.0 Added, Removed, Deprecated, or Changed APIs

A release is listed in this section only if changes occurred in that release.

Release 10.3

Added API	Description
com.softwareag.mobile.md.media.IImagePickerCallback **com.softwareag.mobile.md.media.ImagePicker**	New ImagePicker API
com.softwareag.mobile.md.text.validation.IStringValidator **com.softwareag.mobile.md.text.validation.RegExStringValidator**	New StringValidator API used with entry fields

com.softwareag.mobile.runtime.nui.nUIActionButton
com.softwareag.mobile.runtime.nui.IListActionListener
com.softwareag.mobile.runtime.nui.SwipeBehavior
com.softwareag.mobile.runtime.nui.SwipeToDeleteBehavior
com.softwareag.mobile.runtime.nui.SwipeToEditBehavior
com.softwareag.mobile.runtime.nui.IListProvider
  public SwipeBehavior getSwipeBehavior(int type, int swipeDirection)
  public nUIDisplayObject getPlaceholder()
com.softwareag.mobile.runtime.nui.IListRenderer
  public nUIDisplayObject getHeader()
  public boolean isSpinnerVisible(int type)
	nUIListView swipe API

com.softwareag.mobile.runtime.nui.nUIFloatingEntry **com.softwareag.mobile.runtime.nui.nUISearchNavbutton** **com.softwareag.mobile.runtime.nui.ISearchFieldListener**	New UI elements

Added API	Description
com.softwareag.mobile.runtime.nui.nUIConstraintLayout **com.softwareag.mobile.runtime.nui.IDisplayObject** **com.softwareag.mobile.runtime.nui.IButtonElement** **com.softwareag.mobile.runtime.nui.ITextfieldElement** **com.softwareag.mobile.runtime.nui.IFloatingEntry** **com.softwareag.mobile.runtime.nui.IImageElement** **com.softwareag.mobile.runtime.nui.IEventDispatcher** **com.softwareag.mobile.runtime.nui.IEventListener**	Constraint layout API

com.softwareag.mobile.core.IMDApplication
  public boolean allowUnsecureSSLConnectionForURL(String theURL)
com.softwareag.mobile.core.MDApplication
  public boolean allowUnsecureSSLConnectionForURL(String theURL)

com.softwareag.mobile.runtime.nui.nUIButtonElement
  public void setFontSize(float points)

com.softwareag.mobile.runtime.nui.nUIDisplayObject
  public void setElementIdentifier(String elementIdentifier)
  public String getElementIdentifier()

com.softwareag.mobile.runtime.nui.nUIDropdownlistentry
  public void setIndicatorColor(int color)
  public int getIndicatorColor()

com.softwareag.mobile.runtime.nui.nUIEntryElement
  public void setFontSize(float points)
  public void setHintTextColor(int argb)
  public int getHintTextColor();

com.softwareag.mobile.runtime.nui.nUIObject
  public void setId(int id)
  public int getId()

com.softwareag.mobile.runtime.nui.nUIListView
  public nUIDisplayObject getHeader()
  public boolean isSpinnerVisible(int type)
com.softwareag.mobile.runtime.nui.nUIListElement
  public nUIDisplayObject getHeader()
  public boolean isSpinnerVisible(int type)

com.softwareag.mobile.runtime.nui.nUITextfieldElement
  public void setFontSize(float points)

com.softwareag.mobile.runtime.nui.nUIPopupMenuBuilder
  public nUIPopupMenuBuilder addItem(String item_title,
    Runnable action, String elementIdentifier)

Added API	Description
com.softwareag.mobile.runtime.nui.nUIViewDisplay public void setHeaderBackground(IBackgroundDrawable drawable) public IBackgroundDrawable getHeaderBackground()	
com.softwareag.mobile.runtime.nui.nUIWindowDisplay public void setPaneDimensions(int pane, int dimensions[], String elementIdentifier)	
com.softwareag.mobile.runtime.nui.nUIWebView public void setURL(String url, String mimeType)	
com.softwareag.mobile.runtime.nui.nUI* public nUIDisplayObject() public nUIDisplayObject(String text) public nUIDisplayObject(Hashtable properties)	New constructors for *nUIDisplayObject* (and its subclasses). All constructors now using a *Hashtable*
com.softwareag.mobile.runtime.toolkit.delegates.IDialogDelegate public void onDialogButtonPressed(AbstractDialog dialog, int buttonId)	Replaces previously used *onAlertDialogButtonPressed (AbstractAlertDialog, int)*
com.softwareag.mobile.runtime.toolkit.ui.dialog.AbstractAlertDialog	Updated package for *AbstractAlertDialog*
com.softwareag.mobile.runtime.nui.nUIEntryElement public static final int FORMAT_PIN_HIDDEN = 3	Replaces previously used *FORMAT_NUMBER_HID DEN*

Removed API	Replacement
com.softwareag.mobile.runtime.toolkit.delegates.IDialogDelegate public void onAlertDialogButtonPressed(AbstractAlertDialog dialog, int buttonId)	Replaced by new API. See added APIs.
com.softwareag.mobile.runtime.toolkit.ui.AbstractAlertDialog	Package changed. See added API.
com.softwareag.mobile.runtime.nui.nUIEntryElement public static final int FORMAT_PIN_HIDDEN = 3	Name changed. See added APIs.

Deprecated API	Replacement
com.softwareag.mobile.runtime.media.CameraHandler **com.softwareag.mobile.runtime.media.ICameraHandlerCallback**	

Deprecated API	Replacement
com.softwareag.mobile.runtime.nui.nUIButtonElement public void setFontSize(int font_size) public int getFontSize() public void setFontSizeAbsolute(int size_in_pixels, boolean accessibility_adjusted) public void setFontSizeRelative(int rel_font_id, int scale)	
com.softwareag.mobile.runtime.nui.nUIEntryElement public void setFontSize(int font_size) public int getFontSize() public void setFontSizeAbsolute(int size_in_pixels, boolean accessibility_adjusted) public void setFontSizeRelative(int rel_font_id, int scale)	
com.softwareag.mobile.runtime.nui.nUITextfieldElement public void setFontSize(int font_size) public int getFontSize() public void setFontSizeAbsolute(int size_in_pixels, boolean accessibility_adjusted) public void setFontSizeRelative(int rel_font_id, int scale)	
com.softwareag.mobile.runtime.nui.nUIPopupMenuBuilder public nUIPopupMenuBuilder addItem(String title, Runnable action)	
com.softwareag.mobile.runtime.nui.nUIWindowDisplay public void setPaneDimensions(int pane, int dimensions[])	
com.softwareag.mobile.runtime.nui.nUI* constructors with nuiid parameter	See added APIs for constructors to use.

Release 10.1

Added API	Description
com.softwareag.mobile.reshandler.AntTaskResourceHandler public void addDirContentAsAssetCatalogs(String dir)	
com.softwareag.mobile.runtime.nui.nUIDisplayObject public boolean isVisible() public void setVisible(boolean visible)	Hide/show *nUIDisplayObjects* at run time
com.softwareag.mobile.runtime.nui.nUIWindowDisplay public IGlobalPropertiesIOS getIOSGlobalProperties() public IGlobalPropertiesAndroid getAndroidGlobalProperties() **com.softwareag.mobile.runtime.nui.IGlobalPropertiesIOS** **com.softwareag.mobile.runtime.nui.IGlobalPropertiesAndroid**	Access to iOS and Android specific properties, e.g., tint colors of *nUINavButtons*

Added API	Description

com.softwareag.mobile.runtime.core.Application
  public void onStartAppFromPushNotification(PushNotification
    message)
  public PushNotification getStartPushNotification()
  public IPushNotificationListener
setPushNotificationListener(IPushNotificationListener listener)
com.softwareag.mobile.runtime.pn.PushNotification
com.softwareag.mobile.runtime.pn.IPushNotificationListener
	Push Notifications

com.softwareag.mobile.md.digest.MD5Sum
  public String getDigest(String s)
  public String getDigest(String s, String encoding)
  public String getDigest(byte[] bytes)
	MD5 Checksum support for *String* and *byte[]* types

com.softwareag.mobile.core.MDApplication **com.softwareag.mobile.core.IMDApplication** **com.softwareag.mobile.core.IMDApplicationListener** **com.softwareag.mobile.md.util.concurrent.IResultCallback**	New entry point of every application
com.softwareag.mobile.runtime.comms.Connection **com.softwareag.mobile.runtime.comms.Response** **com.softwareag.mobile.runtime.comms.HttpResponse** **com.softwareag.mobile.runtime.comms.IConnectionCallback**	New connection API for HTTP connections
com.softwareag.mobile.runtime.nui.nUIListView **com.softwareag.mobile.runtime.nui.nUIListElement** **com.softwareag.mobile.runtime.nui.IListRenderer** **com.softwareag.mobile.runtime.nui.IListProvider** **com.softwareag.mobile.runtime.nui.IListListener**	New ListView API
com.softwareag.mobile.runtime.RuntimeInfo **com.softwareag.mobile.runtime.SystemInfo**	Access to run time and system information
com.softwareag.mobile.md.io.File	New file API for accessing local file systems
com.softwareag.mobile.md.net.ConnectivityStatusRequester **com.softwareag.mobile.md.net.IConnectivityWatcher**	New connectivity monitoring API
com.softwareag.mobile.md.imagetools.AssetImageLoader	AssetImage API to work with new asset catalogs
com.softwareag.mobile.runtime.toolkit.operations.queue.BasicOperationQueue **com.softwareag.mobile.runtime.toolkit.operations.queue.ConditionalOperationQueue**	New operation queueing API

Added API	Description
com.softwareag.mobile.runtime.toolkit.transformer.ImageTransformer	New image/asset transformer
com.softwareag.mobile.runtime.toolkit.operations.cache.CacheFirstCacheHandler **com.softwareag.mobile.runtime.toolkit.operations.cache.CacheOnlyCacheHandler** **com.softwareag.mobile.runtime.toolkit.operations.cache.FileCacheManager** **com.softwareag.mobile.runtime.toolkit.operations.cache.IOperationCacheHandler** **com.softwareag.mobile.runtime.toolkit.operations.cache.ServerFirstCacheHandler** **com.softwareag.mobile.runtime.toolkit.operations.cache.ServerOnlyCacheHandler**	New operation caching API
com.softwareag.mobile.runtime.nui.nUITableElement public void updateRelativeWidths(int[] new_rel_widths)	

com.softwareag.mobile.runtime.nui.nUIWebView
com.softwareag.mobile.runtime.nui.nUIWebviewElement
  public String evaluateJavaScript(String script)
  public void evaluateJavaScript(String script, IJSCallback callback)	

Removed API	Replacement

com.softwareag.mobile.runtime.toolkit.ui.controller.AbstractViewController
  boolean isVisible(final nUIDisplayObject element)
  boolean setVisible(final nUIDisplayObject element, final Boolean isVisible)
  boolean forceHide(final nUIDisplayObject element)
	nUIDisplayObject now has methods to change visibility.

com.softwareag.mobile.runtime.toolkit.ui.controller.IResourceController
  public Image loadImage(final String name, final int viewBackGroundcolor)
  public Image loadImage(final String name, final int viewBackGroundcolor,
    final int containerWidth)	

Removed API	Replacement
com.softwareag.mobile.runtime.core.Application **com.softwareag.mobile.runtime.core.CanvasCore** **com.softwareag.mobile.runtime.core.CanvasBase** **com.softwareag.mobile.runtime.core.CanvasDimensions** **com.softwareag.mobile.runtime.core.CanvasInterrupts** **com.softwareag.mobile.runtime.core.CanvasMenu** **com.softwareag.mobile.runtime.core.CanvasNativeUI** **com.softwareag.mobile.runtime.core.CanvasSoftKeys** **com.softwareag.mobile.runtime.core.CanvasThreading** **com.softwareag.mobile.runtime.comms.HttpConnectionHandler**	New *MDApplication* classes

com.softwareag.mobile.runtime.toolkit.ui.controller.AbstractViewController
  protected String getGeneralGraphicsFolder(final int viewBackGroundcolor, final int containerWidth)
  protected Image tryLoadImage(final String image)
  protected String getPlatformGraphicsFolder(final int viewBackGroundcolor)
  protected String getWinPhoneGraphicFolder(final int width, final int height,
final int viewBackGroundcolor)
  protected String getWinPhoneThemeFolder(final int backgroundColor) protected String getIOSGraphicsFolders(final int currentScreenPPI, final int viewBackGroundcolor)
  protected String getAndroidGraphicsFolder(final int currentScreenPPI, final int viewBackGroundcolor)	

Changed API	Description

com.softwareag.mobile.runtime.toolkit.ui.controller.AbstractViewController
  protected Image loadImage(final String name, final int viewBackGroundcolor)
  protected Image loadImage(final String name, final int viewBackGroundcolor, final int containerWidth)
	public to protected

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12.0 Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the Tech Community website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

MOB-RM-1011-20211015

webMethods Monitor 10.11 Readme

October 2021

This file contains important information you must read before using webMethods Monitor 10.11. You can find system requirements, user documentation, and installation and upgrade instructions on the [Documentation website](#) or the [Tech Community website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0   Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the Empower website.

webMethods Monitor 10.11 requires that the program files and user interface are the same version. When installing webMethods Monitor 10.11, you must install webMethods Monitor 10.11 Program Files along with the 10.11 version of the Monitor User Interface located under My webMethods Server User Interfaces on the install tree.

webMethods Monitor 10.11 requires My webMethods Server 10.11.
Before you can use webMethods Monitor, you must configure My webMethods connection parameters from the WmMonitor Home page. To access the configuration page, on the Package Management page in Integration Server Administrator, click the Home icon for the WmMonitor package. For complete information about configuring My webMethods connection parameters, see *webMethods Monitor User's Guide*.

webMethods Monitor 10.11 is compatible only with the 10.11 version of Optimize for Process and Optimize for Infrastructure.

webMethods Monitor 10.11 lists process instances from the current day's activity by default.
When you use Monitor to view process instances, Monitor lists only process instances from the current day's activity. To retrieve other process instances, you can specify an alternate date range in the Advanced tab on the Process Instances page.

When you use Microsoft SQL Server and you create Process Audit Log database objects, a warning message is displayed stating that the index is too large. You can ignore this message.

To use the archive feature, if the schema for the archive tables does not exist on the same database instance as the schemas for Process Audit Log and IS Core Audit Log, you must configure additional database properties:
  − *For Oracle*: Set up a DBLINK for the Process Audit Log and IS Core Audit Log databases. The DBLINK must contain the username and password for those databases. The parameters in the OPERATION_PARAMETER table on the archive database must match those in the DBLINKs created for the Process Audit Log and IS Core Audit Log databases.
  − *For SQL Server*: Add a linked server from the archive database to the Process Audit Log and IS Core Audit Log databases. The username and password must be identical on both database servers when using two different servers. In other words, the username and password that you use to log on to the archive database must be the same as the username and password on the target database to be archived. If you are using two different SQL Server databases, the Microsoft Distributed Transaction Coordinator (MSDTC) must be running on both servers. For more information, see the Knowledge Base article on the Microsoft Help and Support website and this linked servers article on the Experts Exchange website.
  − *For IBM DB2*: Archiving across database instances is not supported.

2.0 Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

3.0 Usage Notes

This section provides any additional information you need to work with the current release of this product.

Service Monitoring in the new Integration Server web user interface is a preview feature that has limited functions and is:

- Not intended for use in a production environment

- Subject to change in the future without deprecation announcements

If you want to provide feedback on this preview feature, go to the Integration Server area in the Software AG Tech Community.

4.0 Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Release 10.11

- MON_10.7_Fix1
- MON_10.7_MWS_Fix1
- MON_10.5_Fix10
- MON_10.5_MWS_Fix5
- MON_10.3_Fix17
- MON_10.3_MWS_Fix6
- MON_10.1_Fix17
- MON_10.1_MWS_Fix9
- MON_9.12_Fix22

Release 10.7

- MON_10.5_Fix6

- MON_10.5_MWS_Fix3
- MON_10.3_Fix13
- MON_10.3_MWS_Fix3
- MON_10.1_Fix14
- MON_10.1_MWS_Fix7
- MON_9.12_Fix21
- MON_9.9_Fix16

Release 10.5

- MON_10.3_Fix5
- MON_10.3_MWS_Fix1
- MON_10.1_Fix9
- MON_10.1_MWS_Fix5
- MON_9.12_Fix15
- MON_9.10_Fix9
- MON_9.9_Fix15

Release 10.3

- MON_10.1_Fix4
- MON_9.9_Fix12

Release 10.2

- MON_10.1_MWS_Fix2
- MON_10.1_Fix2
- MON_9.8_Fix7

Release 10.1

- MON_10.0_Fix1
- MON_10.0_Fix2
- MON_9.12_Fix2

Release 10.0

- MON_9.12_Fix1
- MON_9.9_Fix7
- MON_9.7_Fix14

- MON_9.5_SP1_Fix6
- MON_9.0_SP1_Fix11

Release 9.12

- MON_8.2_SP1_Fix22
- MON_9.5_SP1_MWS_Fix8
- MON_9.6_Fix8
- MON_9.7_MWS_Fix6
- MON_9.7_Fix9
- MON_9.8_Fix7
- MON_9.10_Fix1

Release 9.10

- MON_9.5_SP1_MWS_Fix7
- MON_9.6_MWS_Fix10
- MON_9.7_MWS_Fix7
- MON_9.8_MWS_Fix2

5.0   Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Release 10.11

- WMN-7832
  With webMethods Monitor, the REST service /rest/rs/monitor/process/modelsWithTask may be open to SQL syntax errors depending on the parameters passed to the service. Security tools may report these failures as a possible SQL injection vulnerability.

  The issue is resolved.

Release 10.7

- WMN-7337
  The document search in Monitor can cause Integration Server to exceed it's allocated memory

  webMethods Monitor allows unconstrained document queries when the "No maximum" option is selected in the

search options. If the range isn't constrained or there is a large number of documents this can cause an out of memory error in Integration Server.

This issue is now resolved.

Release 10.5

▪ WMN-7131
ProcessAudit JDBC pool connections are not getting released
The pub.monitor.archive:serverArchive service provided by WmMonitor creates a connection to the Process Audit database but never releases it back to the JDBC pool. This causes the pool to reach max connections and all following requests to that pool fail with an error.

The issue is resolved.

▪ WMN-7062
When DLS is enabled, not all services are available for including in a role.

The issue is resolved.

▪ WMN-7050
Service archiving is not working as expected.
With MySQL, invoking pub.monitor.archive:serviceArchive does not archive the tables.

The issue is resolved.

▪ WMN-7070
Remove "Enable JDBC Archive for Server, Service, Activation, Document" from WmMonitor.
The issue is resolved.

Release 10.3

▪ WMN-6792
When editing large pipelines, popup error "[POP.012.0002.wm_cafshared/core] URL too long. Some navigational state may be lost." may be seen in MWS.

This issue should now be resolved.

▪ WMN-6830
User task within subprocess may not have correct link showing in MWS/Monitor view.
This issue should now be resolved and requires latest fixes from both Process Engine and Monitor.

▪ WMN-6820
It is observed that the MWS Credentials configured in "Configuration Settings" of wM Monitor is sent in GET request to the server.

▪ WMN-6287
While updating the 'Execution Enabled' toggle button for a newly deployed process version, the

popup 'update running process instances to this version' may not appear.

This issue should now be resolved. The popup should now appear in such case (as long as there are previous versioned instances in started state)

Release 10.0

- WMN-5831
  Processes with a status of Revised cannot be stopped or suspended in the Process Instance Detail page.
  For processes with a status of Revised, the Stop or Suspend buttons are not displayed in the Process Instance Detail page.
  This issue is now resolved.

Release 9.10

- WMN-5242
  Defining a stage where the End Milestone is defined as a Start operation will cause the milestone to be displayed with a Completed operation.
  The issue is resolved.

- WMN-4672
  Enable/ disable process works only with "Modify and Resubmit" privilege.
  This issue is now resolved. A new functional privilege is added to the Business Process.
  It is "Configure and Enable" - This is used to configure/edit business processes models in the Administration page.
  By default, the page/user has the grant permission.
  "Resubmit and Modify" Functional privilege will no longer affect the administration page.
  This requires that both MON_9.6_Fix5 & MON_9.6_MWS_Fix7 be installed, and IS must be restarted after any permission changes.

- WMN-4661
  When "pub.monitor.process.instanceControl:resubmitAllFailed" is run, it may result in MonitorException: Failed in trying to resubmit all: java.lang.NumberFormatException
  This issue is now resolved.

- WMN-4524
  BAM only process may always show as Used=No in the MWS/Monitor UI.
  This issue is now resolved.

- WMN-4182
  Process Archiving for DB2 may produce errors if invoked from IS/MWS.
  This could be caused due to compatibility with DataDirect driver update.
  This issue is now resolved.

- WMN-2932

In the process instance detail page, download buttons are disabled after saving a pipeline to a file. This issue is now resolved.

- WMN-4442
  Process image may not display consistently in IE9 despite setting the response header to IE=9 as mentioned in the Monitor 9.6 User's Guide.
  This could be caused due to a developer option which forced the use of F12 Developer Tools mode in IE9 to enable the process diagram.
  This issue is now resolved. After installing the fix, the browser cache may need to be cleared on IE9 in order for the fix to be effective.
  Other notes: For IE9 and IE10 the MWS host needs to be added as a Trusted site in
  Internet Explorer > Internet Options > Security tab
  For the ability to run mixed versions of IE, a Response Header such as "IE=9, IE=10" or "IE=Edge" can be used.

- WMN-4546
  Business Process page may display "Unknown Exception" after migration from previous release.
  This issue is now resolved.

- WMN-3956
  A NullPointerException is raised when doing any archiving from MWS UI (Data Management > Archive Audit Data page) if there were no process models present.
  This issue is now resolved.

- WMN-4567
  Process instance detail page results in NPE when process minimum log level is lower than 4.
  This issue is now resolved.

- WMN-4551
  Transition lines within a subprocess are not rendered properly.
  When a subprocess inside a swimlane is expanded in the process diagram in Monitor, the transition lines are not rendered properly.
  This issue is now resolved.

- WMN-4510
  Viewing a process diagram on the Business Process Administration page causes an error.
  Clicking on the process in Monitor Business Process Administration page causes the following error: [MON.0119.0016E] Could not create process image: java.lang.NullPointerException.
  This issue is now resolved.

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.7

A new *Service Monitoring in Integration Server* guide has been added. The guide provides information about the Monitoring feature in the Integration Server administration interface.

Release 10.3

The Monitor User's Guide and Monitor Built-In Service Reference documentation is available as a combined webhelp set on the Software AG Empower website.

7.0   Terminology Changes

A release is listed in this section only if changes occurred in that release.

8.0   Added, Removed, Deprecated, or Changed Built-In Services

A release is listed in this section only if changes occurred in that release.

Release 10.5

Changed Service	Description
pub.monitor.process.instance:getPagedInstanceList	• Output parameter "instances" is actually a Document List, but is a Document in service output signature. Signature has been corrected. • Service output signature now has correct parameter name. instances/firstTime instances/firstStatus instances/lastStatus • "deploymentVersion" is defined as a

Changed Service	Description
pub.monitor.process.instance:getInstanceModelInfo	String but was returned as Integer. It is now returned as a String

Release 10.1

Changed Service	Description
pub.monitor.archive:setOperationParameters	Three new input parameters have been added:

- USE_BATCH_ARCHIVE

9.0   Copyright Information

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10.0 Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the Tech Community website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

MON-RM-1011-20211015

My webMethods Server and Common Directory Services 10.11 Readme

October 2021

This file contains important information you must read before using My webMethods Server and Common Directory Services 10.7. You can find system requirements, user documentation, and installation and upgrade instructions on the [Documentation website](#) or the [TECHcommunity website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0   Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website.](#)

2.0   Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

▪ MWS-29721
When a user, defined in an LDAP directory service attempts to log into My webMethods, My webMethods Server might become unresponsive intil restarted. This issue occurs when the LDAP directory service is configured to use Kerberos authentication.

As a workaround to this issue, switch back to using the LDAP directory service without Kerberos authentication by deselecting the Use Kerberos option in the directory service configuration.

3.0   Usage Notes

This section provides any additional information you need to work with the current release of this product.

▪ My webMethods Server instances, installed on Windows Server 2016 might fail to initialize unless started with administrator permissions.

4.0   Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Release 10.11

▪ MWS_10.7_CDS_Fix2

▪ MWS_10.7_Database_Fix1

▪ MWS_10.7_Fix1

▪ MWS_10.7_SPM_Fix1

▪ MWS_10.5_Fix11

▪ MWS_10.5_SPM_Fix1

▪ MWS_10.5_SPM_TE_Fix1

▪ MWS_10.5_SPM_IS_TE_Fix1

- MWS_10.5_Database_Fix5

- MWS_10.5_ABE_Fix1

- MWS_10.4_Fix1

- MWS_10.3_Fix19

- MWS_10.3_SPM_Fix2

- MWS_10.3_SPM_IS_Fix1

- MWS_10.3_SPM_IS_TE_Fix1

- MWS_10.3_ABE_Fix2

- MWS_Tanuki_Fix1

- MWS_10.2_Fix1

- MWS_10.1_Fix22

- MWS_10.1_SPM_Fix2

- MWS_10.1_SPM_TE_Fix2

- MWS_10.0_Fix4

- MWS_10.0_SPM_Fix1

- MWS_9.12_Fix40

- MWS_9.12_SPM_Fix2

- MWS_9.12_SPM_TE_Fix1

- MWS_9.10_Fix33

- MWS_9.10_SPM_Fix1

- MWS_9.10_SPM_IS_Fix1

Release 10.7

- MWS_10.5_Fix9

- MWS_10.5_SPM_Fix1

- MWS_10.5_SPM_TE_Fix1

- MWS_10.5_SPM_IS_TE_Fix1

- MWS_10.5_Database_Fix5

- MWS_10.5_ABE_Fix1

- MWS_10.4_Fix1

- MWS_10.3_Fix16

- MWS_10.3_SPM_Fix2

- MWS_10.3_SPM_IS_Fix1

- MWS_10.3_ABE_Fix2

- MWS_Tanuki_Fix1

- MWS_10.2_Fix1

- MWS_10.1_Fix19

- MWS_10.1_SPM_Fix2

- MWS_10.1_SPM_TE_Fix2

- MWS_10.0_Fix4

- MWS_10.0_SPM_Fix1

- MWS_9.12_Fix40

- MWS_9.12_SPM_Fix2

- MWS_9.12_SPM_TE_Fix1

- MWS_9.10_Fix33

- MWS_9.10_SPM_Fix1

- MWS_9.10_SPM_IS_Fix1

- MWS_9.10_SPM_IS_Fix1

Release 10.5

- MWS_10.3_Fix7

- MWS_10.3_SPM_Fix1

- MWS_10.3_SPM_IS_Fix1

- MWS_10.2_Fix1

- MWS_10.1_Fix11

- MWS_10.1_SPM_Fix2

- MWS_10.0_Fix4

- MWS_10.0_SPM_Fix1

- MWS_9.12_Fix34

- MWS_9.12_SPM_Fix1

- MWS_9.12_SPM_TE_Fix1

- MWS_9.10_Fix31

- MWS_9.10_SPM_Fix1

- MWS_9.10_SPM_IS_Fix1

- MWS_9.10_SPM_IS_Fix1

Release 10.4

- MWS_10.3_Fix2

- MWS_10.3_SPM_Fix1

- MWS_10.2_Fix1

- MWS_10.1_Fix8

- MWS_10.1_SPM_Fix1

- MWS_10.0_Fix4

- MWS_10.0_SPM_Fix1

- MWS_9.12_Fix31

- MWS_9.12_SPM_Fix1

- MWS_9.12_SPM_TE_Fix1

- MWS_9.10_Fix29

- MWS_9.10_SPM_Fix1

- MWS_9.10_SPM_IS_Fix1

Release 10.3

- MWS_10.2_Fix1
- MWS_10.1_Fix6
- MWS_10.1_SPM_Fix1
- MWS_10.0_Fix4
- MWS_10.0_SPM_Fix1
- MWS_9.12_Fix27
- MWS_9.12_SPM_Fix1
- MWS_9.12_SPM_TE_Fix1
- MWS_9.10_Fix28
- MWS_9.10_SPM_Fix1
- MWS_9.10_SPM_IS_Fix1
- MWS_9.9_Fix29
- MWS_9.9_SPM_Fix2
- MWS_9.9_GLUE_Fix2
- MWS_9.8_Fix39
- MWS_9.8_SPM_Fix5
- MWS_9.8_GLUE_Fix3
- MWS_9.7_Fix36
- MWS_9.7_SPM_Fix3

Release 10.2

- MWS_10.1_Fix2
- MWS_10.0_Fix4
- MWS_10.0_SPM_Fix1
- MWS_9.12_Fix18
- MWS_9.12_SPM_Fix1

- MWS_9.10_Fix25

- MWS_9.9_Fix22

- MWS_9.9_SPM_Fix2

- MWS_9.8_Fix36

- MWS_9.7_Fix34

- MWS_9.6_Fix26

- MWS_9.5_SP1_Fix31

- MWS_9.0_SP1_Fix16

Release 10.1

- MWS_10.0_Fix2

- MWS_9.12_Fix9

- TE_9.12_TC_Fix1

- MWS_9.10_Fix17

- MWS_9.9_Fix18

- TE_9.9_TC_Fix2

- MWS_9.8_Fix28

- MWS_9.8_GLUE_Fix3

- TE_9.8_TC_Fix1

- MWS_9.7_Fix29

- TE_9.7_TC_Fix2

- MWS_9.6_Fix23

- TE_9.6_TC_Fix2

- MWS_9.5_SP1_Fix29

- MWS_8.2_SP1_Fix31

Release 10.0

- MWS_9.12_Fix3

- MWS_9.10_Fix9

- MWS_9.9_Fix10

- MWS_9.8_Fix19

- MWS_9.8_GLUE_Fix2

- MWS_9.7_Fix23

- TE_9.7_TC_Fix2

- MWS_9.6_Fix18

- TE_9.6_TC_Fix2

- MWS_9.5_SP1_Fix23

- MWS_8.2_SP1_Fix29

Release 9.12

- MWS_9.10_Fix2

- MWS_9.10_SPM_Fix1

- MWS_9.10_SPM_IS_Fix1

- MWS_9.9_Fix5

- MWS_9.9_GLUE_Fix2

- MWS_9.9_SPM_Fix1

- MWS_9.8_Fix12

- MWS_9.8_SPM_Fix4

- MWS_9.7_Fix16

- MWS_9.6_Fix16

- MWS_9.6_SPM_Fix3

- MWS_9.5_SP1_Fix22

- MWS_9.0_SP1_Fix13

- MWS_8.2_SP1_Fix28

- TE_9.8_TC_Fix1

- TE_9.6_Fix1

- TE_9.5_SP1_TC_Fix3

Release 9.10

- MWS_9.9_Fix2

- MWS_9.9_GLUE_Fix1

- MWS_9.8_Fix8

- MWS_9.8_GLUE_Fix1

- MWS_9.7_Fix12

- MWS_9.6_Fix10

- MWS_9.6_GLUE_Fix1

- MWS_9.5_SP1_Fix15

- MWS_9.0_SP1_Fix9

- MWS_8.2_SP1_Fix26

- TE_9.7_TC_Fix1

- TE_8.2_SP1_TC_Fix7

5.0   Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Release 10.7

- MWS-27886
  When upgrading a My webMethods Server cluster using a Command Central template, some of the cluster nodes might fail to initialize and cause the entire migration to fail.

  The issue is resolved.

- MWS-27592

  A security issue with the Apache POI library was discovered in My webMethods Server.

  The issue is resolved. The vulnerable version 3.11 of the library is now upgraded to a more secure version (3.17).

- MWS-27275

  The Database Component Configurator might require database administrator access or fail to create some of the components for My webMethods Server. This issue occurs when executing My webMethods Server database scripts on an Azure non-dbo schema.

  The issue is resolved.

Release 10.3

- MWS-23340
  My webMethods Server fails to delete a user profile. The issue occurs if the user attempts to delete their profile immediately after exporting the profile data.
  The issue is resolved.

- MWS-22700
  A security issue with permissions to wm_mws_diagnostics components was discovered in My webMethods Server.
  The issue is resolved.

- MWS-22696
  A security issue with button controls vulnerable to XSS attacks was discovered in My webMethods Server.
  The issue is resolved.

- MWS-23272
  A security issue with unauthenticated access to server resources was discovered in My webMethods Server.
  The issue is resolved.

Release 10.2

- MWSSOF-1714
  A CSV injection vulnerability was discovered in My webMethods Server.
  The issue is resolved.

- MWS-22327
  My webMethods Server does not support session-based token generation for CSRF tokens.
  The issue is resolved. Now you can configure the previously removed functionality for session-based token generation using the My webMethods Server user interface. To enable session-based

CSRF token generation:

1. Log in as sysadmin and navigate to Folders > Administrative Folders > Administration Dashboard > Configuration > XSRF Security Configuration.

2. Clear the checkbox for the default setting, which is 'Use secret-based token generator'.

3. Click Submit.

My webMethods Server will now generate CSRF tokens per session.

▪ MWS-22659

Asset Build Environment does not allow the use of third-party libraries when building My webMethods Sever assets.

The issue is resolved. You can now add third-party libraries to use only at compile time for building My webMethods Sever assets.

To include third-party libraries, create a new directory in the root directory of the project, and name that directory 'lib-compile'. Any custom .jar files placed in the 'lib-compile' directory will be used only at compile time, and will not be included in the project build.

Release 10.1

▪ MWS-21673

A CSV injection vulnerability was discovered in My webMethods Server.

The issue is resolved.

▪ MWS-21252

A security issue with logging in debug mode was discovered in My webMethods Server.

The issue is resolved.

Release 10.0

▪ MWS-18703

When processing SOAP service calls, for example from the WmTaskClient package in Integration Server, My webMethods Server might cause increased memory consumption.

The issue is resolved.

▪ MWS-19947

Jackrabbit libraries should be updated to get the latest fixes.

The issue is resolved.

▪ MWS-20464

When you configure the JNDI URL of a standalone My webMethods Server or use My webMethods Server in a cluster, starting the Common Directory Services component logs JmsRemoteCommandTransport errors in the Integration Server log. The issue occurs when My webMethods Server loses connectivity to the Universal Messaging server.

The issue is resolved.

Release 9.12

- MWS-17522
  Upgrading My webMethods Server to version 9.10 using a .zip file fails.
  When you attempt to upgrade a My webMethods Server installation to version 9.10 using a
  .zip file as a source, the upgrade fails with multiple "ERROR: Missing file in source
  installation." errors. The issue occurs because the files in the *Software
  AG_directory*/profiles/MWS_*instanceName*/configuration directory are not included in the .zip
  file.
  The issue is resolved.

- MWS-15586
  My webMethods Server returns an exception when connecting to webMethods Integration
  Server via a web application view.
  When a My webMethods Server web application attempts to connect to Integration Server
  using a web service connector with a basic or hybrid connection, the system returns an
  "unable to create user context" exception.
  The issue is resolved.

- WTN-3684
  On the Business Data page in My webMethods, the Intrinsic Task Metrics event maps are
  improperly set as user-defined.
  When you expand the Intrinsic Task Metrics node on the Administration > Analytics > KPIs >
  Business Data page in My webMethods, the DEFINED BY column for the Intrinsic Task
  Metrics event maps displays the value of "User". However, intrinsic event map and KPI
  definitions should be system-defined to prevent users from deleting or modifying the
  definitions.
  The issue is resolved. The DEFINED BY column for the Intrinsic Task Metrics event maps
  now has a value of "System".

Release 9.10

- MWS-16198
  After migration, the About page of My webMethods Server does not show the correct
  version.
  On the About page in My webMethods, when you click the My webMethods Server tab
  under Licensed Product, the tab still shows the old version instead of the current one.
  The issue is resolved.

- MWS-15647
  Web Services Stack logs multiple error messages in the My webMethods Server _server.log
  during asset deployment.
  When you deploy assets to My webMethods Server using webMethods Deployer, Web
  Services Stack logs multiple "No 'endpoint' property set and serverSide=true, cannot uniquely
  identify endpoint for service" error messages in the _server.log.
  The issue is resolved.

- MWS-15122
  The SOAP Monitor portlet fails to communicate with My webMethods Server.
  When you attempt to use the SOAP Monitor portlet in My webMethods Server, the SOAP monitor applet starts but shows the following error: "The SOAP Monitor is unable to communicate with the server".
  The issue is resolved.

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.7

A new chapter, "Using My webMethods Server with Docker", has been added to the *Administering My webMethods Server* guide.

Release 10.3

The My webMethods Server documentation set is available as a webhelp on the Software AG Empower website.

Release 10.0

- The *Administering My webMethods Server* guide is available as a webhelp on the Software AG Empower website.

- A new chapter, "Sending Mobile Notifications from My webMethods Server", has been added to the *Administering My webMethods Server* guide.

Release 9.12

A new chapter, "Using Command Central to Manage My webMethods Server", has been added to the PDF guide *Administering My webMethods Server*. The chapter contains information about how you use the Software AG Command Central web user interface and command line interface to manage My webMethods Server.

Release 9.10

A new chapter, "Configuring the Time Zone in My webMethods", has been added to the PDF guide *Working with My webMethods*.

7.0   Terminology Changes

A release is listed in this section only if changes occurred in that release.

8.0   Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 10.11

Added Item	Description
Administrative user password change during installation	My webMethods Server and Common Directory Services now support changing the password of the default administrative user (SysAdmin for My webMethods Server and Administrator for the Common Directory Services administration interfaces in Integration Server) during installation.
	All other administrative users are disabled by default. After logging in for the first time, the SysAdmin user must change the passwords for the remaining administrative users and enable login for their accounts.
SysAdmin password change at first login	The default login page for My webMethods Server is enhanced to include two additional fields for changing the sysadmin password when the option to require this change is selected during server installation.
Additional configuration options for Common Directory Services Administration in Integration Server	The Common Directory Services administration interfaces, available as part of the new Integration Server administration interface now include additional options such as DB JMS configuration, shared secrets generation, one-time password configuration, permissions management, calendar configuration and user data export.

Added Item	Description
Optimized container initialization and startup times	The initialization and startup times for My webMethods Server instances, running in Docker containers are optimized using various database procedure and component installation enhancements. My webMethods Server now uses an in-memory Derby database instance to perform bootstrapping activities for Docker containers and avoid network latency between the server and the production database. The new optimization mechanism can synchronize with all supported database types without additional manual configurations.
New additional JVM properties to control the optimized container startup, or enable startup optimization for on-premises installations	My webMethods Server now supports the *mws.inmemory.init* and *sql.delay.threshold* (container only) properties for enabling startup optimization and additional optimization control. For more information about how to use custom JVM properties, see *Administering My webMethods Server*.

Release 10.7

Added Item	Description
Support for Docker	My webMethods Server now provides additional tooling for generating Dockerfiles and Docker images and can run in a Docker container. For more information, see *Administering My webMethods Server*.
Jetty Server Upgrade to version 9.4.28	My webMethods Server now includes Jetty version 9.4.28 which features various enhancements and security updates.
Two-factor authentication support	My webMethods Server and CDS now support two-factor authentication with Google Authenticator and a one-time password, received by e-mail.
Kerberos authentication to the database	My webMethods Server is enhanced to connect to the database using Kerberos authentication.

Added Item	Description
CDS version interoperability	My webMethods Server now supports version interoperability for Common Directory Services. My webMethods Server 10.7 can communicate and exchange user information with a newer version of the Common Directory Services component. The Common Directory Services Component, (installed with integration Server 10.7) can communicate with the latest fix levels of My webMethods Server versions 10.1 through 10.7. For more information about how to enable version interoperability, see *Administering My webMethods Server*.
Common Directory Services Administration in Integration Server	Common Directory Services can be installed and configured on Integration Server, without using an additional My webMethods Server node. The Common Directory Services administration interfaces are available as part of the new Integration Server administration interface. This is a preview feature.

Release 10.5

Added Item	Description
SP-initiated SSO with SAML	My webMethods Server now supports an additional scenario for configuring SSO with the SAML authentication scheme and a third-party identity provider - service provider-initiated authentication. For more information, see *Administering My webMethods Server*.
Support for Log4j2	The logging functionality in My webMethods Server is updated to use the log4j2 library.
Database JMS for CDS	My webMethods Server now supports using the database as a JMS provider for synchronization with the CDS component in Integration Server and in small My webMethods Server clusters. For more information, see *Administering My webMethods Server*.

Added Item	Description
Enhanced support for upgrading with Command Central templates	The migration utility for MWS now provides options to skip the deletion of existing instances when rerun over the same installation. The option is enabled by default when the migration utility is used though Command Central templates.
New additional JVM property for configuring the number of threads that purge deleted items from the database	Use this property to configure the number of purge threads: purge.schedule.maxthreads=*number_of_threads*
New additional JVM properties for configuring content security policy	Use this property to enable (default) or disable the content security policy: com.webmethods.content.security.disabled Use this property to supply additional allowed hosts: com.webmethods.content.security.hosts For more information about custom JVM properties see *Administering My webMethods Server*.

Removed Item	Replacement, if any
Support for Log4j version 1	Log4j2 version 2

Release 10.4

Added Item	Description
Support for using PostgreSQL with My webMethods Server	For more information about how to use PostgreSQL with My webMethods, see *Administering My webMethods Server*.
REST transport for CDS cache synchronization	The Common Directory Services component in Integration Server now uses REST calls to synchronize user cache updates between Integration Server and My webMethods Server, instead of Universal Messaging as a JMS provider. REST transport can be used only with a single My webMethods Server instance. Clustered My webMethods Server environments continue using Universal Messaging for Synchronization. For more information, see *Administering My webMethods Server*.

Deprecated Item	Replacement, if any
The Chart portlet	The CAF Chart Control

Removed Item	Replacement, if any
The distributedEventsEnabled property in the cluster.xml file	You can no longer modify the value of the property to enable or disable the distribution of JMS events between the nodes of a cluster. My webMethods Server now handles this setting automatically, depending on whether the server instance is part of a cluster.

Release 10.3

Removed Item	Replacement, if any
The My webMethods Server embedded database (Derby) is removed.	

Changed Item	Description
The following properties of the Noodle skin for customizing the default color scheme of the My webMethods user interface:	The new default value is #1776BF. The old value was #0899CC.
shadow-background-color/banner	
colors/leftnav1-bg	
colors/titlebar-bg	
colors/login-button-top	
colors/login-button-bottom	
colors/section-group-bg	
colors/button-mini-bg	
colors/button-mini-border-light	
colors/dialog-modeless-border	
colors/nav3-selected-bg	The new default value is #14629F. The old value was #379FC3.

Changed Item	Description
colors/login-button-top-hover colors/login-button-bottom-hover	The new default value is #1C8CE3. The old value was #04B2E0.
colors/section-head-bg</name>	The new default value is #1776BF. The old value was #52B7DB.
colors/swap-head-bg	The new default value is #666666. The old value was #eaeaea.
colors/table-msg-bg colors/notify-bg	The new default value is #CDE6F9. The old value was #D7E9F1.
colors/notify-border	The new default value is #96CAF3. The old value was #BDDBE9.

Release 10.2

Added Item	Description
GDPR configuration portlet	

Removed Item	Replacement, if any
Support for Axis 1.4, which is used for exposing web services from My webMethods Server, is removed.	Now My webMethods Server web services use Axis 1.7.7.

Changed Item	Description
mws ping command	The mws ping command now requires Administrator credentials.
My webMethods Server cache configuration	The My webMethods Server cache configuration is enhanced.
My webMethods Server secret key storage	The My webMethods Server secret keys are stored using a passman store.
mws update command	The mws update command now enables you to rename a node in a My webMethods Server cluster.
My webMethods Server migration utility	The migration utility now enables you to rename a node in a My webMethods Server cluster.

Release 10.1

Added Item	Description
New additional JVM properties to configure secure connection to the Universal Messaging server.	You can use the following additional JVM properties in the custom_wrapper.conf file to configure secure connection to the Universal Messaging server:
	- nirvana.ssl.keystore.path
	- nirvana.ssl.keystore.pass
	- nirvana.ssl.keystore.cert
	- nirvana.ssl.truststore.path
	- nirvana.ssl.truststore.pass
	- nirvana.ssl.protocol
	For more information, see *Administering My webMethods Server*.
Business Administration node in the installer tree under the My webMethods Server node.	A new node named Business Administration has been added to the installer tree under the My webMethods Server node.
MySQL support for use with Task Engine	For more information about how to use MySQL with My webMethods Server and Task Engine, see *Administering My webMethods Server*.

Deprecated Item	Replacement, if any
The My webMethods Server embedded database (Derby) is deprecated.	

Changed Item	Description
The font family has been changed to the standard Roboto font.	

Release 10.0

Added Item	Description
New additional JVM properties to adjust the http client settings.	You can use the following additional JVM properties in the custom_wrapper.conf file to configure connection settings when making web service calls using the Axis SOAP client: - axisclient.DefaultMaxConnectionsPerHost - axisclient.MaxTotalConnections For more information, see *Administering My webMethods Server*.
New additional JVM properties to configure a user name and password for connecting to Universal Messaging.	You can use the following additional JVM properties in the custom_wrapper.conf file to configure credentials for connecting to Universal Messaging: - lax.nl.env.PRINCIPAL - lax.nl.env.PASSWORD

Removed Item	Replacement, if any
The localControl authentication option is removed from My webMethods Server commands.	The 'mws ping','mws import', and 'mws export' commands now require authentication.
Using the database as a JMS provider for My webMethods Server clusters is removed.	Using the My webMethods Server database as a JMS provider for cluster communication is removed. The replacement is using the Universal Messaging server. For more information, see *Administering My webMethods Server*.

Changed Item	Description
My webMethods users must provide their current password when attempting to change the password.	When updating their profile information, My webMethods users must supply their old password to set a new one. This does not apply to administrative users who change the password of other users.
Automatic reconnection settings for LDAP directory services.	You can enable the automatic reconnection to LDAP for directory services in My webMethods Server, and set a custom amount of time to wait between reconnection attempts.

Release 9.12

Added Item	Description
Option to configure universally unique identifier (UUID) for My webMethods Server users accessed through an external user directory service.	A utility is required to update the universally unique identifier (UUID) for My webMethods Server users accessed through an external user directory service. Additionally, an option is required to remove invalid users from My webMethods Server. By default, the external directory service configured with My webMethods Server uses distinguished names (DNs) to identify users. In this case, if a user is transferred from one organization unit to another, My webMethods Server cannot recognize that user because of a change in the user's DN. Moreover, My webMethods Server cannot recognize users who are deleted from a directory service or moved in a directory service, and such users are regarded as invalid users. You can configure My webMethods Server to use UUID, so that users are identified when the DN changes. You can run the UserDirectory_UpdateUUID utility to update the UUID for My webMethods Server users accessed through an external user directory service. To remove invalid users, you can run the Cleanup_InvalidUsers utility. For more information about those utilities, see *Administering My webMethods Server* and *My webMethods Server Portlet Reference*.
Expose the Jetty JMX MBeans in the embedded Jetty container.	Enable all of the org.eclipse.jetty.* MBeans in the JMX console for My webMethods Server.

Deprecated Item	Replacement, if any
Support for Axis 1.x, which is used for exposing web services from My webMethods Server, is deprecated.	
Support for webMethods Glue	

Deprecated Item	Replacement, if any
Using the database as a JMS provider for My webMethods Server clusters is deprecated.	webMethods Universal Messaging

Changed Item	Description
Improved My webMethods Server logging	The width of log messages is shortened by using an enhanced pattern layout from org.apache.log4j.EnhancedPatternLayout.
My webMethods Server uses Apache Jackrabbit 2.x.	My webMethods Server now uses Apache Jackrabbit 2.x. The previous Apache Jackrabbit version that the server was using is no longer supported and contains security vulnerabilities.

Release 9.10

Added Item	Description
SAML 2.0 authentication	If you select the Hybrid authentication mode, SAML 2.0 is used by default. To use SAML Artifact Profile, set the wsclient.hybrid.use.samlartifact property to true in the custom_wrapper.conf file in the following My webMethods Server directory: *Software AG_directory* /profiles/MWS_*instanceName*/ configuration.

Removed Item	Replacement, if any
SOAP Monitor portlet communication port	The SOAP Monitor portlet no longer uses the SOAP Monitor applet that communicated with My webMethods Server over a custom socket. For this reason, the SOAP Monitor portlet communication port (5001 by default) is no longer required or opened. If a My webMethods Administrator has the port open in their firewall, they can remove this configuration.

Changed Item	Description
The SOAP Monitor, Color Picker, and File Attachment applets have been converted to CAF components.	In more recent versions of Chrome and Firefox applets are disabled by default and must be manually enabled. They represent security risks.

Changed Item	Description
Redirecting of URLs	A redirect to a URL starting with // should not be used for a relative redirect URL.

9.0   Added, Removed, Deprecated, or Changed APIs

A release is listed in this section only if changes occurred in that release.

Release 10.11

Added API	Description
com.webmethods.caf.faces.url.InMemoryStreamHandler: Class com.webmethods.caf.faces.url.InMemoryStreamHandler added	
com.webmethods.common.thread.ThreadExecutor: Class com.webmethods.common.thread.ThreadExecutor added	
com.webmethods.common.thread.ThreadExecutorFactory: Class com.webmethods.common.thread.ThreadExecutorFactory added	
com.webmethods.portal.framework.presentation.util.ResponseHeaderRulesResolver: Class com.webmethods.portal.framework.presentation.util.ResponseHeaderRulesResolver added	
com.webmethods.portal.service.dir.IPasswordPolicyType: Class com.webmethods.portal.service.dir.IPasswordPolicyType added	
com.webmethods.portal.service.sql.core.CachedSqlWorker: Class com.webmethods.portal.service.sql.core.CachedSqlWorker added	
com.webmethods.portal.service.sql.runtime.oracle.UpdateSequenceUtil: Class com.webmethods.portal.service.sql.runtime.oracle.UpdateSequenceUtil added	
com.webmethods.portal.system.init.dbsync.DBLocation: Class com.webmethods.portal.system.init.dbsync.DBLocation added	
com.webmethods.portal.system.init.dbsync.IDatabaseService: Class com.webmethods.portal.system.init.dbsync.IDatabaseService added	
com.webmethods.portal.system.init.dbsync.IDatabaseSynchronizer: Class com.webmethods.portal.system.init.dbsync.IDatabaseSynchronizer added	
com.webmethods.portal.system.init.dbsync.IModifier: Class com.webmethods.portal.system.init.dbsync.IModifier added	
com.webmethods.portal.system.init.dbsync.ITableMigrator: Class com.webmethods.portal.system.init.dbsync.ITableMigrator added	
com.webmethods.portal.system.init.dbsync.dto.SynchronizableColumn: Class com.webmethods.portal.system.init.dbsync.dto.SynchronizableColumn added	

com.webmethods.portal.system.init.dbsync.dto.SynchronizableColumn$Builder: Class
com.webmethods.portal.system.init.dbsync.dto.SynchronizableColumn$Builder added

com.webmethods.portal.system.init.dbsync.dto.SynchronizableTable: Class
com.webmethods.portal.system.init.dbsync.dto.SynchronizableTable added

Removed API	Replacement, if any
com.webmethods.portal.service.sql.runtime.mysql.SetThingDates: Class com.webmethods.portal.service.sql.runtime.mysql.SetThingDates removed	

Changed API	Description

com.webmethods.caf.faces.config.CafAnnotationProvider: Accessibility of method 'protected void processBundle(org.osgi.framework.Bundle, java.util.Set)' has been decreased from protected to private

com.webmethods.portal.bizPolicy.command.install.InstallComponent: Accessibility of field allowedFileExtensions has been increased from private to protected

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Added protected field deployMap

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Added protected field deployMapFile

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Added protected field m_workDir

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Accessibility of field allowedFileExtensions has been increased from private to protected

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Removed field containerDeployMap

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Removed field containerDeployMapFile

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Accessibility of method 'protected void checkInstall(java.util.List, java.nio.file.Path, java.util.Map, java.lang.String)' has been decreased from protected to private

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Accessibility of method 'protected void checkUninstall(com.webmethods.portal.bizPolicy.IContext, java.util.List, java.util.Map, java.lang.String)' has been decreased from protected to private

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Method 'public java.util.Set getAllowedFileExtensions()' has been removed

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Method 'public void syncAppsFolder(com.webmethods.portal.bizPolicy.IContext,

com.webmethods.portal.bizPolicy.command.ICommandBean)' has been removed

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Method 'protected void transferToDeployDir(java.io.File)' has been removed

com.webmethods.portal.bizPolicy.command.install.SyncConfigFolder: Field allowedFileExtensions is now non-static

com.webmethods.portal.bizPolicy.command.install.SyncConfigFolder: Accessibility of field allowedFileExtensions has been increased from private to protected

com.webmethods.portal.bizPolicy.command.install.SyncConfigFolder: Method 'public java.util.Set getAllowedFileExtensions()' has been removed

com.webmethods.portal.bizPolicy.command.install.SyncConfigFolder: Method 'public java.lang.Object handle(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.bizPolicy.command.ICommandBean)' has been removed, but an inherited definition exists.

com.webmethods.portal.bizPolicy.command.install.SyncConfigFolder: Method 'public void init(com.webmethods.portal.system.IComponentData, java.lang.String)' has been removed, but an inherited definition exists.

com.webmethods.portal.bizPolicy.command.install.SyncConfigFolder: Method 'public void syncConfigsFolder(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.bizPolicy.command.ICommandBean)' has been removed

com.webmethods.portal.framework.dispatch.IDispatchHandler: Added public field HANDLE_SYSADMIN

com.webmethods.portal.framework.mech.install.StartWebApplications: Added public field MWS_CURRENT_PHASE

com.webmethods.portal.framework.mech.install.StartWebApplications: Removed field USE_MULTI_THREAD_STARTUP

com.webmethods.portal.framework.mech.install.StartWebApplications: In method 'protected void startWebApplications(com.webmethods.portal.service.view.IListView)' the number of arguments has changed

com.webmethods.portal.framework.session.ISessionHandler: Added public field SESSION_RESPONSE_HANDLE_SYSADMIN

com.webmethods.portal.service.dir.IDirConstants: Added public field CHANGE_PASS

com.webmethods.portal.service.dir.IDirConstants: Added public field CHANGE_PASS_SUCCESS_ATTR

com.webmethods.portal.service.dir.IDirConstants: Added public field CONFIRM_PASSWORD_PARAM

com.webmethods.portal.service.dir.IDirConstants: Added public field IS_SYSADMIN_ATTR

com.webmethods.portal.service.dir.IDirConstants: Added public field NEW_PASSWORD_PARAM

com.webmethods.portal.service.dir.IDirConstants: Added public field
PROPERTY_PASSWORDVALIDUNTIL

com.webmethods.portal.service.dir.IDirConstants: Added public field SKIP_CHECK_AUTH_ATTR

com.webmethods.portal.service.dir.IDirConstants: Added public field SYSADMIN

com.webmethods.portal.service.sql.core.BaseSqlWorker: Method 'public int[]
executeBatchUpdate(java.lang.String, java.util.List, java.lang.Object[], boolean)' has been added

com.webmethods.portal.service.sql.core.ConnectionInfo: Method 'public void
setSqlWorkerClass(java.lang.Class)' has been added

com.webmethods.portal.service.sql.core.ConnectionManager: Added public field
CACHED_DS_NAME

com.webmethods.portal.service.sql.core.ConnectionManager: Added public field EXT_DS_NAME

com.webmethods.portal.service.sql.runtime.base.GetSqlTime: Added public field NAME

com.webmethods.portal.service.sql.runtime.base.GetSqlTime: Added public field UTC_TZ

com.webmethods.portal.service.sql.runtime.base.GetTasksVoted: Method 'public void
setDatabaseRuntime(com.webmethods.portal.service.sql.IDatabaseRuntime)' has been added

com.webmethods.portal.service.sql.runtime.base.GroupAddUpdate: Method 'public java.lang.String
getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.base.RoleAddUpdate: Method 'public java.lang.String
getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.base.SetThingDates: Added public field NAME

com.webmethods.portal.service.sql.runtime.base.SetThingDates: Method 'public java.lang.String
getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.base.SubMatchList: Method 'public void
setDatabaseRuntime(com.webmethods.portal.service.sql.IDatabaseRuntime)' has been added

com.webmethods.portal.service.sql.runtime.base.SubNew: Method 'public java.lang.String
getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.base.TaskAllAttachments: Added
com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.base.TaskAllAttachmentsCount: Added
com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.base.TaskAllAttachmentsCount: Field QUERY_2 has been
removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.base.TaskAllAttachmentsCount: Field QUERY_3 has been
removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.base.TaskComments: Added
com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.base.TaskComments: Field QUERY_2 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.base.TaskComments: Field QUERY_3 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.base.TaskCommentsCount: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.base.TaskCommentsCount: Field QUERY_2 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.base.TaskCommentsProcess: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.base.TaskCommentsProcess: Field QUERY_2 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.base.TaskCommentsProcess: Field QUERY_3 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.base.TaskListFromInboxes: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesPaged: Method 'protected void generateSqlByTerm(int, java.util.Map, com.webmethods.portal.service.task.TaskSearchQueryTerm, com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo)' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.base.TypeLoad: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.base.UserAddUpdate: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.base.UserGroupAdd: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.base.UserRoleAdd: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.mysql.TaskAllAttachments: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.mysql.TaskAllAttachmentsCount: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.mysql.TaskAllAttachmentsCount: Field QUERY_2 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.mysql.TaskAllAttachmentsCount: Field QUERY_3 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.mysql.TaskComments: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.mysql.TaskComments: Field QUERY_2 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.mysql.TaskComments: Field QUERY_3 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.mysql.TaskCommentsCount: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.mysql.TaskCommentsCount: Field QUERY_2 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.mysql.TaskCommentsProcess: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.mysql.TaskCommentsProcess: Field QUERY_2 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.mysql.TaskCommentsProcess: Field QUERY_3 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.oracle.SubNew: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.oracle.ThingDestroy: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.oracle.UpdateThingCounter: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.system.PortalSystem: Added public field IN_MEMORY_INIT_MODE

com.webmethods.portal.system.boot.PortalBootManager: Method 'public java.lang.Boolean isInMemoryInit()' has been added

com.webmethods.portal.webapp.jetty7.WebXMLRewriter: Accessibility of field FIX_BUNDLE_WEB_XML has been increased from package to public

Release 10.7

Added API	Description
com.webmethods.caf.common.logging.dir.DirectoryLoggingConstants: Class com.webmethods.caf.common.logging.dir.DirectoryLoggingConstants added	
com.webmethods.caf.common.parse.xml.DateFormatter: Method 'public void main(java.lang.String[])' has been removed	
com.webmethods.caf.portalclient.task.task.RecalculationStatus: Class com.webmethods.caf.portalclient.task.task.RecalculationStatus added	

com.webmethods.caf.server.remote.rpcws.encoding.ObjectSerializer: Class
com.webmethods.caf.server.remote.rpcws.encoding.ObjectSerializer added

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Class
com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder added

com.webmethods.portal.bizPolicy.command.install.SyncConfigFolder: Class
com.webmethods.portal.bizPolicy.command.install.SyncConfigFolder added

com.webmethods.portal.bizPolicy.command.jcr.RepositoryConfigImpl: Class
com.webmethods.portal.bizPolicy.command.jcr.RepositoryConfigImpl added

com.webmethods.portal.bizPolicy.command.jcr.RepositoryInitializer: Class
com.webmethods.portal.bizPolicy.command.jcr.RepositoryInitializer added

com.webmethods.portal.bizPolicy.command.jcr.RepositoryInitializer$Factory: Class
com.webmethods.portal.bizPolicy.command.jcr.RepositoryInitializer$Factory added

com.webmethods.portal.bizPolicy.command.task.GetRecalculationStatus: Class
com.webmethods.portal.bizPolicy.command.task.GetRecalculationStatus added

com.webmethods.portal.bizPolicy.command.task.GetRecalculationStatus$GetRecalculationStatusCom
mandBean: Class
com.webmethods.portal.bizPolicy.command.task.GetRecalculationStatus$GetRecalculationStatusCom
mandBean added

com.webmethods.portal.bizPolicy.command.task.StartVoteRecalculation: Class
com.webmethods.portal.bizPolicy.command.task.StartVoteRecalculation added

com.webmethods.portal.bizPolicy.command.task.StartVoteRecalculation$StartVoteRecalculationCom
mandBean: Class
com.webmethods.portal.bizPolicy.command.task.StartVoteRecalculation$StartVoteRecalculationCom
mandBean added

com.webmethods.portal.bizPolicy.command.task.StopVoteRecalculation: Class
com.webmethods.portal.bizPolicy.command.task.StopVoteRecalculation added

com.webmethods.portal.bizPolicy.command.task.StopVoteRecalculation$StopVoteRecalculationComm
andBean: Class
com.webmethods.portal.bizPolicy.command.task.StopVoteRecalculation$StopVoteRecalculationComm
andBean added

com.webmethods.portal.bizPolicy.command.task.VoteTask: Class
com.webmethods.portal.bizPolicy.command.task.VoteTask added

com.webmethods.portal.bizPolicy.command.task.VoteTask$VoteTaskCommandBean: Class
com.webmethods.portal.bizPolicy.command.task.VoteTask$VoteTaskCommandBean added

com.webmethods.portal.bizPolicy.command.task.jms.GetRecalculationStatusJMS: Class
com.webmethods.portal.bizPolicy.command.task.jms.GetRecalculationStatusJMS added

com.webmethods.portal.bizPolicy.command.task.jms.VoteTaskJMS: Class
com.webmethods.portal.bizPolicy.command.task.jms.VoteTaskJMS added

com.webmethods.portal.bizPolicy.command.task.rs.TaskVotingResources: Class
com.webmethods.portal.bizPolicy.command.task.rs.TaskVotingResources added

com.webmethods.portal.bizPolicy.command.task.webservice.GetRecalculationStatusWS: Class
com.webmethods.portal.bizPolicy.command.task.webservice.GetRecalculationStatusWS added

com.webmethods.portal.bizPolicy.command.task.webservice.GetRecalculationStatusWS$GetRecalculationStatusCommandBean: Class
com.webmethods.portal.bizPolicy.command.task.webservice.GetRecalculationStatusWS$GetRecalculationStatusCommandBean added

com.webmethods.portal.bizPolicy.command.task.webservice.StartVoteRecalculationWS: Class
com.webmethods.portal.bizPolicy.command.task.webservice.StartVoteRecalculationWS added

com.webmethods.portal.bizPolicy.command.task.webservice.StartVoteRecalculationWS$StartVoteRecalculationCommandBean: Class
com.webmethods.portal.bizPolicy.command.task.webservice.StartVoteRecalculationWS$StartVoteRecalculationCommandBean added

com.webmethods.portal.bizPolicy.command.task.webservice.StopVoteRecalculationWS: Class
com.webmethods.portal.bizPolicy.command.task.webservice.StopVoteRecalculationWS added

com.webmethods.portal.bizPolicy.command.task.webservice.StopVoteRecalculationWS$StopVoteRecalculationCommandBean: Class
com.webmethods.portal.bizPolicy.command.task.webservice.StopVoteRecalculationWS$StopVoteRecalculationCommandBean added

com.webmethods.portal.bizPolicy.command.task.webservice.VoteTaskWS: Class
com.webmethods.portal.bizPolicy.command.task.webservice.VoteTaskWS added

com.webmethods.portal.bizPolicy.command.task.webservice.VoteTaskWS$VoteTaskCommandBean: Class
com.webmethods.portal.bizPolicy.command.task.webservice.VoteTaskWS$VoteTaskCommandBean added

com.webmethods.portal.bizPolicy.command.task.webservice.dotnet.GetRecalculationStatusDotNetWS: Class
com.webmethods.portal.bizPolicy.command.task.webservice.dotnet.GetRecalculationStatusDotNetWS added

com.webmethods.portal.bizPolicy.upgrade.TaskEngineConfigPortletMigrator: Class
com.webmethods.portal.bizPolicy.upgrade.TaskEngineConfigPortletMigrator added

com.webmethods.portal.framework.auth.totp.ITOTPAuthenticator: Class
com.webmethods.portal.framework.auth.totp.ITOTPAuthenticator added

com.webmethods.portal.framework.auth.totp.ITOTPAuthenticatorKey: Class
com.webmethods.portal.framework.auth.totp.ITOTPAuthenticatorKey added

com.webmethods.portal.framework.auth.totp.ITOTPConfigService: Class
com.webmethods.portal.framework.auth.totp.ITOTPConfigService added

com.webmethods.portal.framework.auth.totp.ITOTPConfiguration: Class
com.webmethods.portal.framework.auth.totp.ITOTPConfiguration added

com.webmethods.portal.mech.install.util.InstallMechanicsUtils: Class
com.webmethods.portal.mech.install.util.InstallMechanicsUtils added

com.webmethods.portal.service.dir.PrincipalSortComparator: Class
com.webmethods.portal.service.dir.PrincipalSortComparator added

com.webmethods.portal.service.dir.TotpAuthenticationException: Class
com.webmethods.portal.service.dir.TotpAuthenticationException added

com.webmethods.portal.service.dir.calendar.ICalendarAdminConfig: Class
com.webmethods.portal.service.dir.calendar.ICalendarAdminConfig added

com.webmethods.portal.service.dir.calendar.ICalendarAdminConfigService: Class
com.webmethods.portal.service.dir.calendar.ICalendarAdminConfigService added

com.webmethods.portal.service.dir.gdpr.IGdprConfig: Class
com.webmethods.portal.service.dir.gdpr.IGdprConfig added

com.webmethods.portal.service.dir.gdpr.IGdprConfig$DataInclusionType: Class
com.webmethods.portal.service.dir.gdpr.IGdprConfig$DataInclusionType added

com.webmethods.portal.service.dir.gdpr.IGdprConfigService: Class
com.webmethods.portal.service.dir.gdpr.IGdprConfigService added

com.webmethods.portal.service.dir.gdpr.IGdprNotification: Class
com.webmethods.portal.service.dir.gdpr.IGdprNotification added

com.webmethods.portal.service.dir.gdpr.IGdprReconfigure: Class
com.webmethods.portal.service.dir.gdpr.IGdprReconfigure added

com.webmethods.portal.service.sql.IConnectionManager: Class
com.webmethods.portal.service.sql.IConnectionManager added

com.webmethods.portal.service.sql.runtime.base.UsersCount: Class
com.webmethods.portal.service.sql.runtime.base.UsersCount added

com.webmethods.portal.service.sql.runtime.db2.AddKeywordToApp: Class
com.webmethods.portal.service.sql.runtime.db2.AddKeywordToApp added

com.webmethods.portal.service.sql.runtime.oracle.AddKeywordToApp: Class
com.webmethods.portal.service.sql.runtime.oracle.AddKeywordToApp added

com.webmethods.portal.service.task.ITaskConnectivityService: Class
com.webmethods.portal.service.task.ITaskConnectivityService added

com.webmethods.portal.service.task.ITaskVotingStrategy: Class
com.webmethods.portal.service.task.ITaskVotingStrategy added

com.webmethods.portal.service.task.ITaskVotingStrategyManagerFactory: Class
com.webmethods.portal.service.task.ITaskVotingStrategyManagerFactory added

com.webmethods.portal.service.task.ITaskVotingStrategyProvider: Class
com.webmethods.portal.service.task.ITaskVotingStrategyProvider added

com.webmethods.portal.service.task.RecalculationStatus: Class
com.webmethods.portal.service.task.RecalculationStatus added

com.webmethods.portal.service.task.event.ITaskVoteEvent: Class
com.webmethods.portal.service.task.event.ITaskVoteEvent added

com.webmethods.portal.service.task.event.ITaskVoteEvent$IListener: Class
com.webmethods.portal.service.task.event.ITaskVoteEvent$IListener added

com.webmethods.portal.service.task.event.ITaskVoteEvent$ISynchronousListener: Class
com.webmethods.portal.service.task.event.ITaskVoteEvent$ISynchronousListener added

com.webmethods.portal.service.task.event.ITaskVoteEvent$Listeners: Class
com.webmethods.portal.service.task.event.ITaskVoteEvent$Listeners added

com.webmethods.portal.service.task.event.ITaskVoteEvent$SynchronousListeners: Class
com.webmethods.portal.service.task.event.ITaskVoteEvent$SynchronousListeners added

com.webmethods.portal.service.task.event.ITaskVoteEvent$SynchronousListeners$SynchronousListener: Class
com.webmethods.portal.service.task.event.ITaskVoteEvent$SynchronousListeners$SynchronousListener added

com.webmethods.portal.system.lock.ClusterLockFailedException: Class
com.webmethods.portal.system.lock.ClusterLockFailedException added

com.webmethods.portal.webapp.jetty7.MwsLoginService$MwsUserStore: Class
com.webmethods.portal.webapp.jetty7.MwsLoginService$MwsUserStore added

com.webmethods.portal.webapp.jetty7.MwsSession: Class
com.webmethods.portal.webapp.jetty7.MwsSession added

com.webmethods.portal.webapp.jetty7.MwsSessionCache: Class
com.webmethods.portal.webapp.jetty7.MwsSessionCache added

com.webmethods.rtl.container.ContainerMetaInfo: Class
com.webmethods.rtl.container.ContainerMetaInfo added

com.webmethods.rtl.container.health.HealthCheck: Class
com.webmethods.rtl.container.health.HealthCheck added

com.webmethods.rtl.container.health.HealthCheckConfigProvider: Class
com.webmethods.rtl.container.health.HealthCheckConfigProvider added

com.webmethods.rtl.container.health.IHealthIndicator: Class
com.webmethods.rtl.container.health.IHealthIndicator added

com.webmethods.rtl.container.health.IHealthIndicator$HealthStatus: Class
com.webmethods.rtl.container.health.IHealthIndicator$HealthStatus added

com.webmethods.rtl.container.health.IHealthIndicatorConfig: Class

com.webmethods.rtl.container.health.IHealthIndicatorConfig added

com.webmethods.rtl.container.health.config.BaseHealthIndicatorConfig: Class
com.webmethods.rtl.container.health.config.BaseHealthIndicatorConfig added

com.webmethods.rtl.container.health.config.DiskspaceHealthIndicatorConfig: Class
com.webmethods.rtl.container.health.config.DiskspaceHealthIndicatorConfig added

com.webmethods.rtl.container.health.config.JettyThreadHealthIndicatorConfig: Class
com.webmethods.rtl.container.health.config.JettyThreadHealthIndicatorConfig added

com.webmethods.rtl.container.health.config.MemoryHealthIndicatorConfig: Class
com.webmethods.rtl.container.health.config.MemoryHealthIndicatorConfig added

com.webmethods.rtl.container.health.indicator.AXSRFTGenerationHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.AXSRFTGenerationHealthIndicator added

com.webmethods.rtl.container.health.indicator.BaseHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.BaseHealthIndicator added

com.webmethods.rtl.container.health.indicator.CustomDataSourceHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.CustomDataSourceHealthIndicator added

com.webmethods.rtl.container.health.indicator.DatabaseConnectivityHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.DatabaseConnectivityHealthIndicator added

com.webmethods.rtl.container.health.indicator.DirServiceConnectivityHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.DirServiceConnectivityHealthIndicator added

com.webmethods.rtl.container.health.indicator.DiskspaceHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.DiskspaceHealthIndicator added

com.webmethods.rtl.container.health.indicator.JettyThreadHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.JettyThreadHealthIndicator added

com.webmethods.rtl.container.health.indicator.MemoryHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.MemoryHealthIndicator added

com.webmethods.rtl.container.health.indicator.ProcessEngineConnectivityHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.ProcessEngineConnectivityHealthIndicator added

com.webmethods.rtl.container.health.indicator.RulesEngineConnectivityHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.RulesEngineConnectivityHealthIndicator added

com.webmethods.rtl.container.health.indicator.UmConnectionHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.UmConnectionHealthIndicator added

com.webmethods.rtl.container.metrics.PrometheousMetrics: Class
com.webmethods.rtl.container.metrics.PrometheousMetrics added

com.webmethods.rtl.util.NoodleUtil: Class com.webmethods.rtl.util.NoodleUtil added

com.webmethods.rtl.util.RuntimeUtil: Class com.webmethods.rtl.util.RuntimeUtil removed

com.webmethods.rtl.util.runtime.RuntimeUtil: Class com.webmethods.rtl.util.runtime.RuntimeUtil

added

Changed API	Description

com.webmethods.bpm.noodle.IUserTabSetService: Method 'public boolean isTabExists(java.lang.String)' has been added to an interface

com.webmethods.caf.common.SafeXMLLayout: Added org.apache.logging.log4j.core.impl.LocationAware to the set of implemented interfaces

com.webmethods.caf.common.logging.LoggingConstants: Added public field LOG_CATEGORY_DIRECTORY

com.webmethods.caf.common.logging.LoggingUtils: Method 'public org.slf4j.Logger getLogger(java.lang.Class, java.lang.String[])' has been added

com.webmethods.caf.faces.data.attachments.LocalTempAttachmentsProvider$FileItemImpl: Removed java.io.Serializable from the set of implemented interfaces

com.webmethods.caf.faces.data.attachments.PortalAttachmentItem$PortalContentFileItem: Removed java.io.Serializable from the set of implemented interfaces

com.webmethods.caf.faces.data.attachments.TempAttachmentsProvider$TempThingFileItem: Removed java.io.Serializable from the set of implemented interfaces

com.webmethods.caf.faces.data.attachments.URLFileItem: Removed java.io.Serializable from the set of implemented interfaces

com.webmethods.caf.faces.servlet.FileItemWrapper: Removed java.io.Serializable from the set of implemented interfaces

com.webmethods.caf.faces.servlet.MultipartWrapper: Method 'public MultipartWrapper()' has been added

com.webmethods.caf.jcr.faces.data.JcrAttachmentsProvider$JcrFileItem: Removed java.io.Serializable from the set of implemented interfaces

com.webmethods.caf.jcr.faces.util.PropertyHelper: Method 'public java.lang.String encodeNodeName(java.lang.String)' has been added

com.webmethods.caf.mobile.notify.task.NotificationSender: Parameter 2 of 'public NotificationSender(java.util.concurrent.BlockingQueue, com.sun.jersey.api.client.WebResource$Builder, java.lang.String, java.lang.String, com.sun.jersey.api.client.Client, com.webmethods.pushNotification.apns.connection.pool.APNSConnectionProvider, com.webmethods.caf.mobile.notify.impl.AppleMessagingCloudConnectionDetails)' has changed its type to javax.ws.rs.client.Invocation$Builder

com.webmethods.caf.mobile.notify.task.NotificationSender: Parameter 5 of 'public NotificationSender(java.util.concurrent.BlockingQueue, com.sun.jersey.api.client.WebResource$Builder, java.lang.String, java.lang.String, com.sun.jersey.api.client.Client, com.webmethods.pushNotification.apns.connection.pool.APNSConnectionProvider,

com.webmethods.caf.mobile.notify.impl.AppleMessagingCloudConnectionDetails)' has changed its type to javax.ws.rs.client.Client

com.webmethods.caf.portalclient.task.PCTaskHelper: Method 'public com.webmethods.caf.portalclient.task.task.RecalculationStatus getRecalculationStatus(java.lang.String)' has been added

com.webmethods.caf.portalclient.task.PCTaskHelper: Method 'public void startVoteRecalculation(java.lang.String, java.lang.String)' has been added

com.webmethods.caf.portalclient.task.PCTaskHelper: Method 'public void stopVoteRecalculation(java.lang.String, java.lang.String)' has been added

com.webmethods.caf.portalclient.task.PCTaskHelper: Method 'public void voteTask(java.lang.String, java.lang.String, java.lang.String)' has been added

com.webmethods.caf.portalclient.task.task.ItaskPortType: Method 'public com.webmethods.caf.portalclient.task.task.RecalculationStatus getRecalculationStatus(java.lang.String)' has been added to an interface

com.webmethods.caf.portalclient.task.task.ItaskPortType: Method 'public void startVoteRecalculation(java.lang.String, java.lang.String)' has been added to an interface

com.webmethods.caf.portalclient.task.task.ItaskPortType: Method 'public void stopVoteRecalculation(java.lang.String, java.lang.String)' has been added to an interface

com.webmethods.caf.portalclient.task.task.ItaskPortType: Method 'public void voteTask(java.lang.String, java.lang.String, java.lang.String)' has been added to an interface

com.webmethods.caf.portalclient.task.task.TaskSearchQuery: Added public field activeVoting

com.webmethods.caf.portalclient.task.task.TaskSearchQuery: Method 'public boolean isActiveVoting()' has been added

com.webmethods.caf.portalclient.task.task.TaskSearchQuery: Method 'public void setActiveVoting(boolean)' has been added

com.webmethods.management.jmx.Log4JMXAppender: Added org.apache.logging.log4j.core.impl.LocationAware to the set of implemented interfaces

com.webmethods.portal.bizPolicy.biz.task.ITaskBizPolicy: Method 'public com.webmethods.portal.service.task.RecalculationStatus getRecalculationStatus(com.webmethods.portal.bizPolicy.IContext, java.lang.String)' has been added to an interface

com.webmethods.portal.bizPolicy.biz.task.ITaskBizPolicy: Method 'public void startVoteRecalculation(com.webmethods.portal.bizPolicy.IContext, java.lang.String)' has been added to an interface

com.webmethods.portal.bizPolicy.biz.task.ITaskBizPolicy: Method 'public void stopVoteRecalculation(com.webmethods.portal.bizPolicy.IContext, java.lang.String)' has been added to an interface

com.webmethods.portal.bizPolicy.biz.task.ITaskBizPolicy: Method 'public void voteTask(com.webmethods.portal.bizPolicy.IContext, java.lang.String, java.lang.String, java.lang.String)' has been added to an interface

com.webmethods.portal.bizPolicy.command.dir.AuthenticateUser: Method 'protected com.webmethods.portal.service.dir.IDirUser _authenticateUser(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.mech.dir.IDirSystemMechanics, java.lang.String, java.lang.String, java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.dir.AuthenticateUser: Method 'public com.webmethods.portal.service.dir.IDirUser authenticateUser(com.webmethods.portal.bizPolicy.IContext, java.lang.String, java.lang.String, java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.dir.AuthenticateUser: Method 'public com.webmethods.portal.service.dir.IDirUser authenticateUser(com.webmethods.portal.bizPolicy.IContext, java.lang.String, java.lang.String, java.lang.String, boolean)' has been added

com.webmethods.portal.bizPolicy.command.dir.AuthenticateUser: Method 'protected void handleTotpFailed(java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.dir.rs.RoleJaxbContentResolver: Return type of method 'public javax.xml.bind.JAXBContext getContext(java.lang.Class)' has been changed to com.fasterxml.jackson.databind.ObjectMapper

com.webmethods.portal.bizPolicy.command.rest.MWSCustomDispatchProvider: Removed com.sun.jersey.spi.container.ResourceMethodDispatchProvider from the set of implemented interfaces

com.webmethods.portal.bizPolicy.command.rest.MWSCustomDispatchProvider: Method 'public MWSCustomDispatchProvider(com.sun.jersey.spi.container.ResourceMethodDispatchProvider)' has been removed

com.webmethods.portal.bizPolicy.command.rest.MWSCustomDispatchProvider: Method 'public com.sun.jersey.spi.dispatch.RequestDispatcher create(com.sun.jersey.api.model.AbstractResourceMethod)' has been removed

com.webmethods.portal.bizPolicy.command.rest.MWSRequestDispatcher: Removed com.sun.jersey.spi.dispatch.RequestDispatcher from the set of implemented interfaces

com.webmethods.portal.bizPolicy.command.rest.MWSRequestDispatcher: In method 'public MWSRequestDispatcher(com.sun.jersey.spi.dispatch.RequestDispatcher)' the number of arguments has changed

com.webmethods.portal.bizPolicy.command.rest.MWSRequestDispatcher: Method 'public void dispatch(java.lang.Object, com.sun.jersey.api.core.HttpContext)' has been removed

com.webmethods.portal.bizPolicy.command.task.jms.api.TaskCommandJMS: Added public field GET_RECALCULATION_STATUS

com.webmethods.portal.bizPolicy.command.task.jms.api.TaskCommandJMS: Added public field

VOTE_TASK

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Added
com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource to the list of superclasses

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Method 'public
javax.ws.rs.core.Response buildResponse(java.lang.String, java.lang.Object)' is now implemented in
superclass com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Method 'public
javax.ws.rs.core.Response buildResponse()' is now implemented in superclass
com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Method 'public java.util.Map
convertPropertyValues(java.lang.String[], java.util.Map)' is now implemented in superclass
com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Method 'protected
com.webmethods.portal.bizPolicy.command.ICommand
getCommand(com.webmethods.portal.bizPolicy.IContext, java.lang.String)' is now implemented in
superclass com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Method 'public java.lang.String
getStringValue(java.lang.Object)' is now implemented in superclass
com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Method 'public java.lang.String
getSupportedMediaType(java.lang.String)' is now implemented in superclass
com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Method 'public
java.lang.Object invoke(javax.servlet.http.HttpServletRequest, java.lang.String, java.lang.String[])' is
now implemented in superclass com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Method 'public
java.lang.Object invoke(javax.servlet.http.HttpServletRequest, java.lang.String,
com.webmethods.portal.bizPolicy.command.impl.CommandBean)' is now implemented in superclass
com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource

com.webmethods.portal.bizPolicy.command.task.rs.JAXBContextResolver: Return type of method
'public javax.xml.bind.JAXBContext getContext(java.lang.Class)' has been changed to
com.fasterxml.jackson.databind.ObjectMapper

com.webmethods.portal.bizPolicy.command.task.rs.LayeredProductVerionResource: Added
com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource to the list of superclasses

com.webmethods.portal.bizPolicy.command.task.rs.SearchTaskResource: Added
com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource to the list of superclasses

com.webmethods.portal.bizPolicy.command.task.rs.TaskAttachmentResource: Added
com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource to the list of superclasses

com.webmethods.portal.bizPolicy.command.task.rs.TaskAuditResource: Added com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource to the list of superclasses

com.webmethods.portal.bizPolicy.command.task.rs.TaskCommentResource: Added com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource to the list of superclasses

com.webmethods.portal.bizPolicy.command.task.rs.TaskResource: Added com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource to the list of superclasses

com.webmethods.portal.bizPolicy.command.task.webservice.FileItemRESTImpl: Removed java.io.Serializable from the set of implemented interfaces

com.webmethods.portal.framework.session.handlers.Validate: Method 'protected com.webmethods.portal.service.dir.IDirUser authenticateUser(com.webmethods.portal.bizPolicy.IContext, java.lang.String, java.lang.String, java.lang.String)' has been added

com.webmethods.portal.noodle.util.NoodleUtils: Added com.webmethods.rtl.util.NoodleUtil to the list of superclasses

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public boolean canUser(com.webmethods.portal.system.IURI, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public boolean canUser(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.system.IURI, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public boolean canUser(java.lang.String, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.meta2.thing.IThingID createObjectInFolder(com.webmethods.portal.service.meta2.thing.IThingID, java.lang.String, java.lang.String, java.util.Map, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public java.lang.String encodePath(java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.bizPolicy.biz.meta.IBasicPolicy getBasicPolicy()' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.bizPolicy.command.ICommandManager getCommandManager()' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.mech.storage.IContainerMechanics getContainerMech(com.webmethods.portal.service.meta2.thing.IThingID)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.bizPolicy.biz.meta.IContainerPolicy getContainerPolicy(com.webmethods.portal.service.meta2.thing.IThingID)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.bizPolicy.IContext getCurrentContext()' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.meta2.thing.IThingID getCurrentUser()' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public java.lang.String getCurrentUserID()' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.meta2.thing.IThingID getDirPrincipalThingId(com.webmethods.portal.bizPolicy.IContext, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.meta2.thing.IThingID getFolder(com.webmethods.portal.service.meta2.thing.IThingID, java.lang.String, boolean, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public java.lang.String getFriendlyURL(com.webmethods.portal.system.IURI)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public javax.jcr.Session getJcrSession()' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.caf.jcr.faces.bean.RepositorySessionManager getJcrSessionManager()' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public javax.jcr.Node getOrCreateChildNode(javax.jcr.Session, javax.jcr.Node, java.lang.String, boolean, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.meta2.thing.IThingID getPrimaryChild(com.webmethods.portal.service.meta2.thing.IThingID, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.meta2.thing.IThingID getPrincipalThingID(com.webmethods.portal.bizPolicy.IContext, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.view.IListView getSortedChildren(com.webmethods.portal.service.meta2.thing.IThingID)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.system.IURI getUriForID(java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.meta2.thing.IThingID getUserHomeFolder(java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.view.IView getView(com.webmethods.portal.system.IURI)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.view.IView getView(java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public java.lang.String getXTypeName(com.webmethods.portal.service.meta2.thing.IThingID)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public java.lang.String makeUniqueName(javax.jcr.Node, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public java.lang.String makeUniqueName(com.webmethods.portal.service.meta2.thing.IThingID, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.service.access.IAclManager$AcePropertyDescriptor: Added protected field uri

com.webmethods.portal.service.access.IAclManager$AcePropertyDescriptor: Method 'public com.webmethods.portal.system.IURI getUri()' has been added

com.webmethods.portal.service.access.IAclManager$AcePropertyDescriptor: Method 'public void setUri(com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.service.dir.IDirConstants: Added public field TOTP_ADMIN_ALIAS

com.webmethods.portal.service.dir.IDirConstants: Added public field TOTP_AUTH

com.webmethods.portal.service.dir.IDirConstants: Added public field TOTP_CATEGORY

com.webmethods.portal.service.dir.IDirConstants: Added public field TOTP_CREDENTIALS

com.webmethods.portal.service.dir.IDirConstants: Added public field TOTP_PREFIX

com.webmethods.portal.service.dir.IDirConstants: Added public field TOTP_SERVICE_TOKEN

com.webmethods.portal.service.dir.IDirConstants: Added public field TOTP_TOKEN_NAME

com.webmethods.portal.service.dir.IDirService: Method 'public boolean testConnection()' has been added to an interface

[clirr] INFO: com.webmethods.portal.service.sql.IConnectionInfo: Added public field DEFAULT_RETRY_COUNT

com.webmethods.portal.service.sql.IConnectionInfo: Added public field DEFAULT_RETRY_DELAY

com.webmethods.portal.service.sql.IConnectionProvider: Added public field PARAM_ALIAS_NAME

com.webmethods.portal.service.sql.core.ConnectionInfo: Accessibility of field DEFAULT_RETRY_COUNT has been increased from protected to public

com.webmethods.portal.service.sql.core.ConnectionInfo: Accessibility of field DEFAULT_RETRY_DELAY has been increased from protected to public

com.webmethods.portal.service.sql.core.ConnectionManager: Added com.webmethods.portal.service.sql.IConnectionManager to the set of implemented interfaces

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field DB2_DRIVER is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field DB2_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field DB2_URL_TEMPLATE is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field DERBY_DRIVER is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field DERBY_SERVER_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field DERBY_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field DERBY_URL_TEMPLATE is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field INFORMIX_DRIVER is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field INFORMIX_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field INFORMIX_URL_TEMPLATE is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field MSSQL_DRIVER is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field MSSQL_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field MSSQL_URL_TEMPLATE is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field MYSQL_DRIVER is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field MYSQL_SERVER_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field MYSQL_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field MYSQL_URL_TEMPLATE is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field ORACLE_DRIVER is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field ORACLE_THIN_DRIVER is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field ORACLE_THIN_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field ORACLE_THIN_URL_TEMPLATE is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field ORACLE_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field ORACLE_URL_PARSER_EXPRESSION_SERVICENAME is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field ORACLE_URL_TEMPLATE is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field ORACLE_URL_TEMPLATE_SERVICENAME is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field POSTGRESQL_DRIVER is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field POSTGRESQL_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field POSTGRESQL_URL_TEMPLATE is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SERVER_DB2 is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SERVER_DERBY is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SERVER_MSSQL is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SERVER_MYSQL is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SERVER_ORACLE is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SERVER_POSTGRESQL is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SYBASE_DRIVER is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SYBASE_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SYBASE_URL_TEMPLATE is now final

com.webmethods.portal.service.sql.core.provider.pool.PooledConnectionProvider: Added public field TEMP_POOL_NAME

com.webmethods.portal.service.sql.runtime.MySqlDatabaseRuntime: Method 'public java.lang.String getFieldName(java.lang.String)' has been added

com.webmethods.portal.service.sql.runtime.base.AddKeywordToApp: Method 'public java.lang.String getInsertStatement()' has been added

com.webmethods.portal.service.sql.runtime.base.BaseStoredProcedure: Method 'protected java.lang.String getDBFieldName(java.lang.String)' has been added

com.webmethods.portal.service.sql.runtime.base.BaseStoredProcedure: Method 'protected java.lang.String getFieldName(java.lang.String)' has been added

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesPaged: In method 'protected void addFromIndexParams(int, java.util.Map, com.webmethods.portal.service.task.TaskSearchQueryV2)' the number of arguments has changed

com.webmethods.portal.service.sql.runtime.mysql.TaskSearchFromInboxesPaged: Method 'protected void addFromIndexParams(java.util.Map, com.webmethods.portal.service.task.TaskSearchQueryV2)' has been added

com.webmethods.portal.service.task.ITaskConstants: Added public field TASK_OPERATION_VOTING_STRATEGY_UPDATE

com.webmethods.portal.service.task.ITaskSearchQueryExtended: Method 'public boolean isActiveVoting()' has been added to an interface

com.webmethods.portal.service.task.ITaskSystem: Method 'public com.webmethods.portal.service.task.ITaskConnectivityService getTaskConnectivityService()' has been added to an interface

com.webmethods.portal.service.task.ITaskVotingService: Method 'public
com.webmethods.portal.service.task.ITaskVotingStrategyManagerFactory
getTaskVotingStrategyFactory()' has been added to an interface

com.webmethods.portal.service.task.ITaskVotingService: Method 'public
com.webmethods.portal.service.task.ITaskVotingStrategyProvider getTaskVotingStrategyProvider()'
has been added to an interface

com.webmethods.portal.service.task.ITaskVotingStrategyManager: In method 'public void
executeStatusRecalculation(com.webmethods.portal.service.task.ITaskDefinition)' the number of
arguments has changed

com.webmethods.portal.service.task.ITaskVotingStrategyManager: Parameter 1 of 'public void
updateTaskVotingStrategy(com.webmethods.portal.service.task.ITaskDefinition, boolean)' has
changed its type to com.webmethods.portal.system.IURI

com.webmethods.portal.service.task.ITaskVotingStrategyManager: Parameter 2 of 'public void
updateTaskVotingStrategy(com.webmethods.portal.service.task.ITaskDefinition, boolean)' has
changed its type to com.webmethods.portal.service.task.ITaskDefinition

com.webmethods.portal.service.task.ITaskVotingStrategyManager: In method 'public void
updateTaskVotingStrategy(com.webmethods.portal.service.task.ITaskDefinition)' the number of
arguments has changed

com.webmethods.portal.system.IConstants: Added public field SYSTEM_PATH_DATA

com.webmethods.portal.system.PortalSystem: Added public field PORTAL_HOME

com.webmethods.portal.system.PortalSystem: Added public field SERVER_HOME

com.webmethods.portal.system.PortalSystem: Field m_componentProviderNames is now static

com.webmethods.portal.system.PortalSystem: Field m_componentProviders is now static

com.webmethods.portal.system.PortalSystem: Method 'public
com.webmethods.rtl.container.ContainerMetaInfo getContainerConfig()' has been added

com.webmethods.portal.system.PortalSystem: Method 'public boolean isContainer()' has been added

com.webmethods.portal.system.cluster.IClusterProvider: Added public field USE_DB_JMS

com.webmethods.portal.system.lock.IClusterLock: Method 'public
com.webmethods.portal.system.IURI getTaskURI()' has been deprecated

com.webmethods.portal.system.lock.IClusterLock: Method 'public boolean isExpired(java.util.Date)'
has been deprecated

com.webmethods.portal.system.lock.IClusterLockingService: Added public field LOCK_MAX_TIME

com.webmethods.portal.system.lock.IClusterLockingService: Added public field
LOCK_MAX_WAIT_TIME

com.webmethods.portal.system.lock.IClusterLockingService: Method 'public
com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI,

long, long, boolean)' has been deprecated

com.webmethods.portal.system.lock.IClusterLockingService: Method 'public void removeFromTLS(com.webmethods.portal.system.lock.IClusterLock)' has been added to an interface

com.webmethods.portal.webapp.jetty7.MwsAuthenticator$MwsUser: Added org.eclipse.jetty.server.Authentication$LogoutAuthentication to the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.MwsAuthenticator$MwsUser: Method 'public org.eclipse.jetty.server.Authentication logout(javax.servlet.ServletRequest)' has been added

com.webmethods.portal.webapp.jetty7.MwsLoginService: Added org.eclipse.jetty.util.component.Container to the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.MwsLoginService: Added org.eclipse.jetty.util.component.Destroyable to the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.MwsLoginService: Added org.eclipse.jetty.util.component.Dumpable to the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.MwsLoginService: Added org.eclipse.jetty.security.AbstractLoginService to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsLoginService: Added org.eclipse.jetty.security.HashLoginService to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsLoginService: Removed org.eclipse.jetty.security.MappedLoginService from the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsLoginService: Added org.eclipse.jetty.util.component.ContainerLifeCycle to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsLoginService: Method 'protected java.lang.String[] loadRoleInfo(org.eclipse.jetty.security.AbstractLoginService$UserPrincipal)' has been added

com.webmethods.portal.webapp.jetty7.MwsLoginService: Method 'protected org.eclipse.jetty.server.UserIdentity loadUser(java.lang.String)' has been removed

com.webmethods.portal.webapp.jetty7.MwsLoginService: Method 'protected org.eclipse.jetty.security.AbstractLoginService$UserPrincipal loadUserInfo(java.lang.String)' has been added

com.webmethods.portal.webapp.jetty7.MwsLoginService: In method 'public org.eclipse.jetty.server.UserIdentity login(java.lang.String, java.lang.Object)' the number of arguments has changed

com.webmethods.portal.webapp.jetty7.MwsLoginService$MwsKnownUser: Removed org.eclipse.jetty.security.MappedLoginService$UserPrincipal from the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.MwsLoginService$MwsKnownUser: Added org.eclipse.jetty.security.AbstractLoginService$UserPrincipal to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsLoginService$MwsKnownUser: Method 'public java.lang.String getName()' has been removed, but an inherited definition exists.

com.webmethods.portal.webapp.jetty7.MwsSessionFactory: Return type of method 'public org.eclipse.jetty.server.session.AbstractSession getMwsSession(java.lang.String)' has been changed to org.eclipse.jetty.server.session.Session

com.webmethods.portal.webapp.jetty7.MwsSessionFactory: Method 'public org.eclipse.jetty.server.session.SessionCache getSessionCache(org.eclipse.jetty.server.session.SessionHandler)' has been added

com.webmethods.portal.webapp.jetty7.MwsSessionFactory: Return type of method 'public org.eclipse.jetty.server.session.AbstractSession newSession(com.webmethods.portal.webapp.jetty7.MwsSessionManager, javax.servlet.http.HttpServletRequest)' has been changed to org.eclipse.jetty.server.session.Session

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Added org.eclipse.jetty.server.Handler to the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Added org.eclipse.jetty.server.HandlerContainer to the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Removed org.eclipse.jetty.server.SessionManager from the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Added org.eclipse.jetty.server.handler.AbstractHandler to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Added org.eclipse.jetty.server.handler.AbstractHandlerContainer to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Added org.eclipse.jetty.server.handler.HandlerWrapper to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Added org.eclipse.jetty.server.handler.ScopedHandler to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Removed org.eclipse.jetty.server.session.AbstractSessionManager from the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Removed org.eclipse.jetty.server.session.HashSessionManager from the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Added org.eclipse.jetty.server.session.SessionHandler to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Parameter 1 of 'protected void addAuthInfo(org.eclipse.jetty.server.session.AbstractSession)' has changed its type to org.eclipse.jetty.server.session.Session

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Parameter 1 of 'protected void addContextLocale(org.eclipse.jetty.server.session.AbstractSession)' has changed its type to org.eclipse.jetty.server.session.Session

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Parameter 1 of 'protected void addSubject(org.eclipse.jetty.server.session.AbstractSession)' has changed its type to

org.eclipse.jetty.server.session.Session

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Method 'protected org.eclipse.jetty.server.session.Session createHttpSession(javax.servlet.http.HttpServletRequest)' has been added

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Method 'protected void doStop()' has been added

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Return type of method 'public org.eclipse.jetty.server.session.AbstractSession getSession(java.lang.String)' has been changed to org.eclipse.jetty.server.session.Session

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Method 'public void invalidate(java.lang.String)' has been added

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Method 'public javax.servlet.http.HttpSession newHttpSession(javax.servlet.http.HttpServletRequest)' has been added

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Method 'public org.eclipse.jetty.server.session.AbstractSession newSession(javax.servlet.http.HttpServletRequest)' has been removed

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Parameter 1 of 'public boolean removeSession(org.eclipse.jetty.server.session.AbstractSession, boolean)' has changed its type to java.lang.String

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Return type of method 'public boolean removeSession(org.eclipse.jetty.server.session.AbstractSession, boolean)' has been changed to org.eclipse.jetty.server.session.Session

com.webmethods.portal.webapp.jetty7.MwsSessionManager$MwsSession: Class com.webmethods.portal.webapp.jetty7.MwsSessionManager$MwsSession removed

com.webmethods.portal.webapp.jetty7.WebXMLRewriter: Accessibility of field FIX_BUNDLE_WEB_XML has been weakened from public to package

com.webmethods.portal.webservices.glue.SoapLogLayout: Added org.apache.logging.log4j.core.impl.LocationAware to the set of implemented interfaces

com.webmethods.rtl.LoggingConstants: Added public field LOG_CATEGORY_DIRECTORY

com.webmethods.portal.webapp.jetty7.MwsLoginService$MwsKnownUser: Method 'public boolean isAuthenticated()' has been removed

com.webmethods.rtl.jms.PortalClientOverJMS: Method 'public com.webmethods.portal.service.task.RecalculationStatus getRecalculationStatus(java.util.Map)' has been added

com.webmethods.rtl.jms.PortalClientOverJMS: Method 'public java.lang.String voteTask(java.util.Map)' has been added

com.webmethods.rtl.logging.QueueJMSAppender: Added

org.apache.logging.log4j.core.impl.LocationAware to the set of implemented interfaces

com.webmethods.rtl.logging.SafeXMLLayout: Added
org.apache.logging.log4j.core.impl.LocationAware to the set of implemented interfaces

com.webmethods.rtl.mail.MailUtil: Added protected field mwsEmailProps

com.webmethods.rtl.mail.MailUtilService: Added
com.webmethods.portal.event.IClassUpdateEvent$ISynchronousListener to the set of implemented interfaces

com.webmethods.rtl.mail.MailUtilService: Added
com.webmethods.portal.event.IComponentEvent$ISynchronousListener to the set of implemented interfaces

com.webmethods.rtl.mail.MailUtilService: Added com.webmethods.portal.system.IComponent to the set of implemented interfaces

com.webmethods.rtl.mail.MailUtilService: Added
com.webmethods.portal.system.IComponentProvider to the set of implemented interfaces

com.webmethods.rtl.mail.MailUtilService: Added com.webmethods.portal.system.IConstants to the set of implemented interfaces

com.webmethods.rtl.mail.MailUtilService: Added com.webmethods.portal.system.IURIResolver to the set of implemented interfaces

com.webmethods.rtl.mail.MailUtilService: Added com.webmethods.portal.system.init.IInitializable to the set of implemented interfaces

com.webmethods.rtl.mail.MailUtilService: Added com.webmethods.portal.system.BaseComponent to the list of superclasses

com.webmethods.rtl.mail.MailUtilService: Added com.webmethods.portal.system.impl.BaseProvider to the list of superclasses

com.webmethods.rtl.mail.MailUtilService: Method 'protected void activate(java.util.Map)' is now implemented in superclass com.webmethods.portal.system.impl.BaseProvider

com.webmethods.rtl.mail.MailUtilService: Method 'protected void deactivate()' is now implemented in superclass com.webmethods.portal.system.impl.BaseProvider

com.webmethods.rtl.mail.MailUtilService: Method 'protected void initComponents(java.lang.String)' has been added

com.webmethods.rtl.mail.MailUtilService: Method 'public void shutdown()' has been added

com.webmethods.rtl.mail.MailUtilService: Method 'public void updateConfig(java.util.Map)' has been added

com.webmethods.rtl.mail.api.IMailUtil: Added com.webmethods.portal.system.IComponent to the set of implemented interfaces

com.webmethods.rtl.mail.api.IMailUtil: Added com.webmethods.portal.system.IComponentProvider

to the set of implemented interfaces

com.webmethods.rtl.mail.api.IMailUtil: Added com.webmethods.portal.system.IURIResolver to the set of implemented interfaces

com.webmethods.rtl.mail.api.IMailUtil: Added com.webmethods.portal.system.init.IInitializable to the set of implemented interfaces

com.webmethods.rtl.mail.api.IMailUtil: Added public field ADMIN_EMAIL_ADDRESS

com.webmethods.rtl.mail.api.IMailUtil: Added public field DCS_EMAIL_ADDRESS

com.webmethods.rtl.mail.api.IMailUtil: Added public field DCS_EMAIL_FROM

com.webmethods.rtl.mail.api.IMailUtil: Added public field DEFAULT_SMTP_PROTOCOL_VALUE

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_MAIL_DEBUG

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_SMTP_CONNECTION_TIMEOUT

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_SMTP_HOST

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_SMTP_PASSWORD

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_SMTP_PORT

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_SMTP_PROTOCOL

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_SMTP_TIMEOUT

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_SMTP_TLS_ENABLED

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_SMTP_USERNAME

com.webmethods.rtl.mail.api.IMailUtil: Method 'public void updateConfig(java.util.Map)' has been added to an interface

com.webmethods.rtl.msg.jms.JMSProvider: Accessibility of method 'protected void onConnect(java.lang.String, javax.jms.Connection)' has been increased from protected to public

com.webmethods.rtl.util.Debug: Added public field LOG_DEFAULT

com.webmethods.rtl.util.FileUtil: Method 'public boolean dirExists(java.lang.String)' has been added

Removed API	Replacement, if any
com.webmethods.caf.faces.data.dir.DirectorySearchProvider$PrincipalSortComparator: Class com.webmethods.caf.faces.data.dir.DirectorySearchProvider$PrincipalSortComparator removed	
com.webmethods.caf.faces.data.dir.PeopleSearchProvider$PrincipalSortComparator: Class com.webmethods.caf.faces.data.dir.PeopleSearchProvider$PrincipalSortComparator removed	
com.webmethods.caf.faces.data.task.ITaskVotingStrategy: Class com.webmethods.caf.faces.data.task.ITaskVotingStrategy removed	

com.webmethods.portal.noodle.preferences.UserPreferences: Class
com.webmethods.portal.noodle.preferences.UserPreferences removed

com.webmethods.portal.service.task.TaskVotingStrategyManagerFactory: Class
com.webmethods.portal.service.task.TaskVotingStrategyManagerFactory removed

com.webmethods.portal.service.task.TaskVotingStrategyManagerFactoryInitializer: Class
com.webmethods.portal.service.task.TaskVotingStrategyManagerFactoryInitializer removed

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Added API	Description
com.webmethods.portal.mech.task.ITaskMechanics: Method 'public void fireTaskVotingStrategyUpdateStopEvent(com.webmethods.portal.service.task.ITaskDefinition)' has been added to an interface	
com.webmethods.portal.mech.task.ITaskMechanics: Method 'public void fireTaskVotingStrategyUpdateStopEvent(com.webmethods.portal.service.task.ITaskDefinition, java.lang.String)' has been added to an interface	
com.webmethods.portal.service.task.ITaskSystem: Method 'public com.webmethods.portal.service.task.ITaskVotingService getTaskVotingService()' has been added to an interface	
com.webmethods.portal.system.IComponentProvider: Method 'public org.slf4j.Logger getLogger()' has been added to an interface	
com.webmethods.rtl.event.ecs.IJMSSupport: Method 'public com.webmethods.rtl.event.ecs.IJMSSupport$IJMSQueue createQueue(java.lang.String, boolean)' has been added to an interface	
com.webmethods.rtl.event.ecs.IJMSSupport: Method 'public com.webmethods.rtl.event.ecs.IJMSSupport$IJMSTopic createTopic(java.lang.String, boolean, boolean)' has been added to an interface	
Removed API	**Replacement, if any**
com.webmethods.caf.rules.IRuleContext: Method 'public org.apache.log4j.Category getLogCategory()' has been removed	
com.webmethods.caf.rules.IRuleContext: Method 'public void setLogCategory(org.apache.log4j.Category)' has been removed	
com.webmethods.caf.rules.impl.BaseTerm: Removed field logCategory	
com.webmethods.caf.rules.impl.RuleContext: Method 'public org.apache.log4j.Category getLogCategory()' has been removed	
com.webmethods.caf.rules.impl.RuleContext: Method 'public void setLogCategory(org.apache.log4j.Category)' has been removed	
com.webmethods.caf.wsclient.session.impl.WSClientSession: Method 'protected void	

updateSessionPoolCookies()' has been removed

com.webmethods.management.jmx.Log4JMXAppender: Removed org.apache.log4j.Appender from the set of implemented interfaces

com.webmethods.management.jmx.Log4JMXAppender: Removed org.apache.log4j.spi.OptionHandler from the set of implemented interfaces

com.webmethods.management.jmx.Log4JMXAppender: Removed org.apache.log4j.AppenderSkeleton from the list of superclasses

com.webmethods.management.jmx.Log4JMXAppender: Method 'public void close()' has been removed

com.webmethods.management.jmx.Log4JMXAppender: Method 'public boolean requiresLayout()' has been removed

com.webmethods.portal.event.system.ILogMessageEvent: Method 'public org.apache.log4j.spi.LoggingEvent getLoggingEvent()' has been removed

com.webmethods.portal.event.system.impl.LogMessageEvent: Method 'public org.apache.log4j.spi.LoggingEvent getLoggingEvent()' has been removed

com.webmethods.portal.framework.dispatch.handlers.system.Logout: Field RETURN_URL_ATTR has been removed, but it was previously a constant

com.webmethods.portal.jms.JMSPhaseProvider: Method 'public com.webmethods.rtl.msg.jms.JMSProvider getProvider()' has been removed

com.webmethods.portal.mech.task.impl.TaskChangeHandler: Method 'protected void processScheduleRulesInFolder(com.webmethods.portal.mech.task.impl.TaskRuleContext, com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, java.util.List)' has been removed

com.webmethods.portal.service.install.impl.BaseInstallService: Method 'public org.apache.log4j.Category getLogCategory()' has been removed

com.webmethods.portal.service.scheduler.Scheduler: Method 'protected void bindClusterLockingService(com.webmethods.portal.system.lock.IClusterLockingService)' has been removed

com.webmethods.portal.service.scheduler.Scheduler: Method 'protected void unbindClusterLockingService(com.webmethods.portal.system.lock.IClusterLockingService)' has been removed

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesByTagCount: Method 'protected void orderParameters(com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo)' has been removed

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesByTagPaged: Method 'protected void orderParameters(com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo)' has been removed

com.webmethods.portal.system.IComponentProvider: Method 'public org.apache.log4j.Category getLogCategory()' has been removed

com.webmethods.portal.webapp.jetty7.RelocatedClassUpdater$ModifierClassWriter: Removed org.objectweb.asm.ClassVisitor from the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.RelocatedClassUpdater$ModifierMethodWriter: Removed org.objectweb.asm.MethodVisitor from the set of implemented interfaces

com.webmethods.portal.webservices.glue.SoapLogLayout: Removed org.apache.log4j.spi.OptionHandler from the set of implemented interfaces

com.webmethods.portal.webservices.glue.SoapLogLayout: Removed org.apache.log4j.Layout from the list of superclasses

com.webmethods.portal.webservices.glue.SoapLogLayout: Removed org.apache.log4j.xml.XMLLayout from the list of superclasses

com.webmethods.portal.webservices.glue.SoapLogLayout: Method 'public java.lang.String format(org.apache.log4j.spi.LoggingEvent)' has been removed

com.webmethods.rtl.logging.CollectorCategory: Class com.webmethods.rtl.logging.CollectorCategory removed

com.webmethods.rtl.logging.CollectorCategoryFactory: Class com.webmethods.rtl.logging.CollectorCategoryFactory removed

com.webmethods.rtl.logging.CollectorConsoleAppender: Class com.webmethods.rtl.logging.CollectorConsoleAppender removed

com.webmethods.rtl.logging.CollectorFileAppender: Class com.webmethods.rtl.logging.CollectorFileAppender removed

com.webmethods.rtl.logging.CollectorLoggingEvent: Class com.webmethods.rtl.logging.CollectorLoggingEvent removed

com.webmethods.rtl.logging.CollectorPatternLayout: Class com.webmethods.rtl.logging.CollectorPatternLayout removed

com.webmethods.rtl.logging.CollectorPatternParser: Class com.webmethods.rtl.logging.CollectorPatternParser removed

com.webmethods.rtl.logging.EmailEventEvaluator: Class com.webmethods.rtl.logging.EmailEventEvaluator removed

com.webmethods.rtl.logging.EnhancedPatternLayout: Class com.webmethods.rtl.logging.EnhancedPatternLayout removed

com.webmethods.rtl.logging.LoggingUtils: Method 'public org.apache.log4j.Priority getAppenderPriority(org.apache.log4j.AppenderSkeleton)' has been removed

com.webmethods.rtl.logging.QueueJMSAppender: Removed org.apache.log4j.Appender from the set of implemented interfaces

com.webmethods.rtl.logging.QueueJMSAppender: Removed org.apache.log4j.spi.OptionHandler from the set of implemented interfaces

com.webmethods.rtl.logging.QueueJMSAppender: Removed org.apache.log4j.AppenderSkeleton from the list of superclasses

com.webmethods.rtl.logging.QueueJMSAppender: Method 'public void close()' has been removed

com.webmethods.rtl.logging.QueueJMSAppender: Method 'public boolean requiresLayout()' has been removed

com.webmethods.rtl.logging.RunAsServiceConsoleFilter: Removed org.apache.log4j.spi.OptionHandler from the set of implemented interfaces

com.webmethods.rtl.logging.RunAsServiceConsoleFilter: Removed org.apache.log4j.spi.Filter from the list of superclasses

com.webmethods.rtl.logging.RunAsServiceConsoleFilter: Method 'public int decide(org.apache.log4j.spi.LoggingEvent)' has been removed

com.webmethods.rtl.logging.SMTPAppender: Class com.webmethods.rtl.logging.SMTPAppender removed

com.webmethods.rtl.logging.SafeXMLLayout: Removed org.apache.log4j.spi.OptionHandler from the set of implemented interfaces

com.webmethods.rtl.logging.SafeXMLLayout: Removed org.apache.log4j.Layout from the list of superclasses

com.webmethods.rtl.logging.SafeXMLLayout: Removed org.apache.log4j.xml.XMLLayout from the list of superclasses

com.webmethods.rtl.logging.TimeRollingFileAppender: Class com.webmethods.rtl.logging.TimeRollingFileAppender removed

com.webmethods.rtl.logging.convert.CollectorPatternConverter: Class com.webmethods.rtl.logging.convert.CollectorPatternConverter removed

com.webmethods.rtl.logging.convert.ComponentPatternConverter: Class com.webmethods.rtl.logging.convert.ComponentPatternConverter removed

com.webmethods.rtl.logging.convert.HostNamePatternConverter: Class com.webmethods.rtl.logging.convert.HostNamePatternConverter removed

com.webmethods.rtl.logging.convert.ServerPatternConverter: Class com.webmethods.rtl.logging.convert.ServerPatternConverter removed

com.webmethods.rtl.logging.convert.VersionPatternConverter: Class com.webmethods.rtl.logging.convert.VersionPatternConverter removed

com.webmethods.rtl.msg.jms.JMSProvider: Removed field clusterProvider

com.webmethods.rtl.msg.jms.JMSProvider: Method 'public void setClusterProvider(com.webmethods.portal.system.cluster.IClusterProvider)' has been removed

com.webmethods.rtl.util.Debug: Method 'public org.apache.log4j.Category getSafeCategory(java.lang.String)' has been removed

com.webmethods.rtl.util.Debug: Method 'public void initByProperties(java.util.Properties)' has been removed

com.webmethods.rtl.util.Debug: Method 'protected void syncJuliLoggerLevel(org.apache.log4j.Logger, java.util.logging.Logger)' has been removed

com.webmethods.rtl.util.FileUtil: Method 'public java.lang.String getRealLocationAtISatTaskApp(java.lang.String, java.lang.String)' has been removed

Changed API	Description

com.webmethods.caf.common.StringTools: Value of field BOOLEAN_FALSE is no longer a compile-time constant

com.webmethods.caf.common.StringTools: Value of field BOOLEAN_TRUE is no longer a compile-time constant

com.webmethods.caf.common.StringTools: Value of field SYSTEM_ENCODING is no longer a compile-time constant

com.webmethods.caf.faces.bean.BaseApplicationBean: Changed type of field m_JournalLogger from com.webmethods.sc.logging.log4j.WmJournalLogger to com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

com.webmethods.caf.faces.bean.BaseApplicationBean: Changed type of field m_LoggerFactory from com.webmethods.sc.logging.log4j.WmLoggerFactory to com.webmethods.sc.logging.log4j2.logger.WmLoggerFactory

com.webmethods.caf.faces.bean.BaseApplicationBean: Changed type of field m_LoggerFactoryContext from com.webmethods.sc.logging.log4j.LoggerFactoryContext to com.webmethods.sc.logging.log4j2.logger.LoggerFactoryContext

com.webmethods.caf.faces.bean.BaseApplicationBean: Return type of method 'public com.webmethods.sc.logging.log4j.WmJournalLogger getJournalLogger()' has been changed to com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

com.webmethods.caf.faces.component.tree.TreeRowDataColumn: Changed type of field logger from org.apache.log4j.Logger to org.slf4j.Logger

com.webmethods.caf.faces.portlet.BasePortletPhaseListenerWrapper: Changed type of field logger from org.apache.log4j.Logger to org.slf4j.Logger

com.webmethods.caf.faces.render.html.message.MessageRenderer: Changed type of field logger from org.apache.log4j.Logger to org.slf4j.Logger

com.webmethods.caf.faces.util.LogUtils: Value of field LEVEL_DEBUG is no longer a compile-time constant

com.webmethods.caf.faces.util.LogUtils: Value of field LEVEL_ERROR is no longer a compile-time

constant

com.webmethods.caf.faces.util.LogUtils: Value of field LEVEL_FATAL is no longer a compile-time constant

com.webmethods.caf.faces.util.LogUtils: Value of field LEVEL_INFO is no longer a compile-time constant

com.webmethods.caf.faces.util.LogUtils: Value of field LEVEL_WARN is no longer a compile-time constant

com.webmethods.caf.wsclient.WSClient: Changed type of field logger from org.apache.log4j.Logger to org.slf4j.Logger

com.webmethods.caf.wsclient.saml.IArtifactFactory: Return type of method 'public java.lang.String validateSAMLResponse(javax.servlet.http.HttpServletRequest, java.lang.String)' has been changed to java.util.Map

com.webmethods.management.jmx.Log4JMXAppender: In method 'public Log4JMXAppender()' the number of arguments has changed

com.webmethods.management.jmx.Log4JMXAppender: Accessibility of method 'public Log4JMXAppender()' has been decreased from public to protected

com.webmethods.management.jmx.Log4JMXAppender: Parameter 1 of 'protected void append(org.apache.log4j.spi.LoggingEvent)' has changed its type to org.apache.logging.log4j.core.LogEvent

com.webmethods.management.jmx.Log4JMXAppender$ILog4JMXAppenderCallback: Parameter 1 of 'public void onEvent(org.apache.log4j.spi.LoggingEvent)' has changed its type to org.apache.logging.log4j.core.LogEvent

com.webmethods.portal.PortalException: Changed type of field logger from org.apache.log4j.Logger to org.slf4j.Logger

com.webmethods.portal.bizPolicy.command.access.RemoveSecurityRealm: Changed type of field logger from org.apache.log4j.Logger to org.slf4j.Logger

com.webmethods.portal.bizPolicy.command.task.rs.TaskHolder: Return type of method 'public java.lang.String getTaskData()' has been changed to java.util.Map

com.webmethods.portal.bizPolicy.command.task.rs.TaskHolder: Parameter 1 of 'public void setTaskData(java.lang.String)' has changed its type to java.util.Map

com.webmethods.portal.event.system.impl.LogMessageEvent: Changed type of field m_loggingEvent from org.apache.log4j.spi.LoggingEvent to org.apache.logging.log4j.core.LogEvent

com.webmethods.portal.event.system.impl.LogMessageEvent: Parameter 1 of 'public LogMessageEvent(org.apache.log4j.spi.LoggingEvent)' has changed its type to org.apache.logging.log4j.core.LogEvent

com.webmethods.portal.jms.db.impl.db2.EventPoll: Changed type of field logger from org.apache.log4j.Logger to org.slf4j.Logger

com.webmethods.portal.mech.task.impl.TaskCompletionHandler: In method 'public TaskCompletionHandler()' the number of arguments has changed

com.webmethods.portal.mech.task.impl.TaskCompletionHandlerIS: In method 'public TaskCompletionHandlerIS()' the number of arguments has changed

com.webmethods.portal.mech.task.impl.TaskTimedEventHandler: Accessibility of field logger has been weakened from protected to private

com.webmethods.portal.mech.task.impl.TaskTimedEventHandler: Return type of method 'public void processTaskTimedEvent(com.webmethods.portal.service.task.event.ITaskTimedEvent)' has been changed to boolean

com.webmethods.portal.service.logging.LoggingService: Parameter 2 of 'public void persistEvent(java.lang.Integer, org.apache.log4j.spi.LoggingEvent)' has changed its type to org.apache.logging.log4j.core.LogEvent

com.webmethods.portal.service.portlet.impl.BasePortletBean: Changed type of field m_logCategory from org.apache.log4j.Category to org.slf4j.Logger

com.webmethods.portal.service.sql.impl.JdbcUtil: Parameter 2 of 'public void logResultSet(java.sql.ResultSet, org.apache.log4j.Category)' has changed its type to org.slf4j.Logger

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesByTagCount: Method 'protected void orderParameters(com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo)' has been removed

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesByTagPaged: Method 'protected void orderParameters(com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo)' has been removed

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory: In method 'public void addTaskClassLoader(java.lang.String, java.net.URLClassLoader)' the number of arguments has changed

com.webmethods.portal.service.task.impl.TaskThing: Changed type of field m_pendingUpdates from int to java.util.concurrent.atomic.AtomicInteger

com.webmethods.portal.webservices.glue.SoapLogLayout: In method 'public SoapLogLayout()' the number of arguments has changed

com.webmethods.portal.webservices.wsclient.OldPortalArtifactFactory: Return type of method 'public java.lang.String validateSAMLResponse(javax.servlet.http.HttpServletRequest, java.lang.String)' has been changed to java.util.Map

com.webmethods.portal.webservices.wsclient.PortalArtifactFactory: Return type of method 'public java.lang.String validateSAMLResponse(javax.servlet.http.HttpServletRequest, java.lang.String)' has been changed to java.util.Map

com.webmethods.rtl.event.ecs.IJMSSupport: Method 'public

com.webmethods.rtl.event.ecs.IJMSSupport$IJMSQueue createQueue(java.lang.String, boolean)' has been added to an interface

com.webmethods.rtl.event.ecs.IJMSSupport: Method 'public com.webmethods.rtl.event.ecs.IJMSSupport$IJMSTopic createTopic(java.lang.String, boolean, boolean)' has been added to an interface

com.webmethods.rtl.logging.LoggingUtils: Return type of method 'public org.apache.log4j.AppenderSkeleton getAppenderByName(java.lang.String)' has been changed to org.apache.logging.log4j.core.appender.AbstractAppender

com.webmethods.rtl.logging.LoggingUtils: Parameter 1 of 'public org.apache.log4j.Level getCategoryPriority(org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.logging.LoggingUtils: Return type of method 'public org.apache.log4j.Level getCategoryPriority(org.apache.log4j.Category)' has been changed to org.apache.logging.log4j.Level

com.webmethods.rtl.logging.LoggingUtils: Return type of method 'public org.apache.log4j.Category getLogCategory()' has been changed to org.apache.logging.log4j.Logger

com.webmethods.rtl.logging.LoggingUtils: Parameter 1 of 'public java.lang.String toString(org.apache.log4j.spi.LoggingEvent)' has changed its type to org.apache.logging.log4j.core.LogEvent

com.webmethods.rtl.logging.QueueJMSAppender: Removed org.apache.log4j.Appender from the set of implemented interfaces

com.webmethods.rtl.logging.QueueJMSAppender: Removed org.apache.log4j.spi.OptionHandler from the set of implemented interfaces

com.webmethods.rtl.logging.QueueJMSAppender: Removed org.apache.log4j.AppenderSkeleton from the list of superclasses

com.webmethods.rtl.logging.QueueJMSAppender: In method 'public QueueJMSAppender()' the number of arguments has changed

com.webmethods.rtl.logging.QueueJMSAppender: Accessibility of method 'public QueueJMSAppender()' has been decreased from public to protected

com.webmethods.rtl.logging.QueueJMSAppender: Parameter 1 of 'public void append(org.apache.log4j.spi.LoggingEvent)' has changed its type to org.apache.logging.log4j.core.LogEvent

com.webmethods.rtl.logging.QueueJMSAppender: Parameter 1 of 'public void publishEvent(org.apache.log4j.spi.LoggingEvent)' has changed its type to org.apache.logging.log4j.core.LogEvent

com.webmethods.rtl.logging.RunAsServiceConsoleFilter: Removed org.apache.log4j.spi.OptionHandler from the set of implemented interfaces

com.webmethods.rtl.logging.RunAsServiceConsoleFilter: Removed org.apache.log4j.spi.Filter from the list of superclasses

com.webmethods.rtl.logging.RunAsServiceConsoleFilter: In method 'public RunAsServiceConsoleFilter()' the number of arguments has changed

com.webmethods.rtl.logging.RunAsServiceConsoleFilter: Accessibility of method 'public RunAsServiceConsoleFilter()' has been decreased from public to private

com.webmethods.rtl.logging.SafeXMLLayout: Added final modifier to class

com.webmethods.rtl.logging.SafeXMLLayout: In method 'public SafeXMLLayout()' the number of arguments has changed

com.webmethods.rtl.logging.SafeXMLLayout: Accessibility of method 'public SafeXMLLayout()' has been decreased from public to private

com.webmethods.rtl.logging.SafeXMLLayout: In method 'public java.lang.String format(org.apache.log4j.spi.LoggingEvent)' the number of arguments has changed

com.webmethods.rtl.logging.SafeXMLLayout: Accessibility of method 'public java.lang.String format(org.apache.log4j.spi.LoggingEvent)' has been decreased from public to private

com.webmethods.rtl.mail.MailDataSource: Value of field DEFAULT_ENCODING is no longer a compile-time constant

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void assertCollection(java.util.Collection, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void assertCondition(boolean, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void assertMap(java.util.Map, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void assertObjectExists(java.lang.Object, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void assertStr(java.lang.String, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void debug(java.lang.String, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void debug(java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void debug(java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void debug(java.lang.String, java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void error(java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void error(java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void error(java.lang.String, java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void fatal(java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void fatal(java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void fatal(java.lang.String, java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void fatal(java.lang.String, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Return type of method 'public java.util.Enumeration getCategories()' has been changed to java.util.Map

com.webmethods.rtl.util.Debug: Return type of method 'public org.apache.log4j.Category getLogCategory(java.lang.String)' has been changed to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 1 of 'public boolean hasDebugPriority(org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 1 of 'public boolean hasFatalPriority(org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 1 of 'public boolean hasInfoPriority(org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 1 of 'public boolean hasPriority(org.apache.log4j.Category, org.apache.log4j.Priority)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public boolean hasPriority(org.apache.log4j.Category, org.apache.log4j.Priority)' has changed its type to org.apache.logging.log4j.Level

com.webmethods.rtl.util.Debug: Parameter 1 of 'public boolean hasTracePriority(org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 1 of 'public boolean hasWarnPriority(org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void info(java.lang.String, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void info(java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void info(java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void info(java.lang.String, java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 1 of 'public com.webmethods.sc.logging.log4j.WmJournalLogger setContextJournalLogger(com.webmethods.sc.logging.log4j.WmJournalLogger)' has changed its type to com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

com.webmethods.rtl.util.Debug: Return type of method 'public com.webmethods.sc.logging.log4j.WmJournalLogger setContextJournalLogger(com.webmethods.sc.logging.log4j.WmJournalLogger)' has been changed to com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

com.webmethods.rtl.util.Debug: Parameter 1 of 'public void setDefaultJournalLogger(com.webmethods.sc.logging.log4j.WmJournalLogger)' has changed its type to com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void trace(java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void trace(java.lang.String, java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void warn(java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void warn(java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void warn(java.lang.String, java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void warn(java.lang.String, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.StringTools: Value of field BOOLEAN_FALSE is no longer a compile-time constant

com.webmethods.rtl.util.StringTools: Value of field BOOLEAN_TRUE is no longer a compile-time constant

com.webmethods.rtl.util.StringTools: Value of field SYSTEM_ENCODING is no longer a compile-time constant

com.webmethods.rtl.util.journal.ContextJournalLogger: Return type of method 'public com.webmethods.sc.logging.log4j.WmJournalLogger getContextJournalLogger()' has been changed to com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

com.webmethods.rtl.util.journal.ContextJournalLogger: Parameter 1 of 'public com.webmethods.sc.logging.log4j.WmJournalLogger

setContextJournalLogger(com.webmethods.sc.logging.log4j.WmJournalLogger)' has changed its type to com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

com.webmethods.rtl.util.journal.ContextJournalLogger: Return type of method 'public com.webmethods.sc.logging.log4j.WmJournalLogger setContextJournalLogger(com.webmethods.sc.logging.log4j.WmJournalLogger)' has been changed to com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

com.webmethods.rtl.util.journal.ContextJournalLogger: Parameter 1 of 'public void setDefaultJournalLogger(com.webmethods.sc.logging.log4j.WmJournalLogger)' has changed its type to com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

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Added API	Description
com.softwareag.caf.controls.mwsx.PeopleSearchBarBean: Method 'public void setAvailableDirectories(com.webmethods.caf.faces.data.ISelectItemGroupProvider)' has been added	
com.softwareag.mws.screens.BaseScreenClass:Class com.softwareag.mws.screens.BaseScreenClass added	
com.softwareag.mws.screens.Constants: Class com.softwareag.mws.screens.Constants added	
com.softwareag.mws.screens.MWSLoginLogoutScreen: Class com.softwareag.mws.screens.MWSLoginLogoutScreen added	
com.softwareag.mws.screens.applications.administration.systemwide.usermanagement.UsersScreen: Class com.softwareag.mws.screens.applications.administration.systemwide.usermanagement.UsersScreen added	
com.webmethods.caf.faces.data.dir.PeopleSearchProvider: Method 'protected java.util.List lookupRoles(com.webmethods.caf.faces.search.query.ISearchQuery, int, com.webmethods.portal.bizPolicy.IContext, java.lang.String, boolean)' has been added	
com.webmethods.caf.faces.data.dir.PeopleSearchProvider: Method 'protected java.util.List lookupUsersOrGroups(com.webmethods.caf.faces.search.query.ISearchQuery, int, com.webmethods.portal.bizPolicy.IContext, java.lang.String, boolean)' has been added	
com.webmethods.caf.faces.data.portal.system.ClusterServersTableContentProvider: Method 'public com.webmethods.portal.system.cluster.IServer$ServerType getServerType()' has been added	
com.webmethods.caf.faces.data.task.impl.TaskIndexedSearchContentProvider$TaskSearchPagingService: Method 'protected java.util.List performSearch(com.webmethods.portal.service.task.TaskSearchQueryV2)' has been added	
com.webmethods.caf.faces.data.task.impl.TaskIndexedSearchContentProvider$TaskSearchPagingService: Method 'protected int performSearchCount()' has been added	

com.webmethods.caf.faces.render.html.HTMLResponseWriter: Added protected field matcher

com.webmethods.caf.portalclient.task.PCTaskHelper: Method 'public java.lang.String[] setInstancesStatus(java.lang.String, java.lang.String, java.lang.String, java.lang.Boolean, java.lang.Integer)' has been added

com.webmethods.caf.portalclient.task.task.ItaskPortType: Method 'public java.lang.String[] setInstancesStatus(java.lang.String, java.lang.String, java.lang.String, java.lang.Boolean, java.lang.Integer)' has been added to an interface

com.webmethods.caf.rules.impl.constant.ObjectArrayConstant: Method 'public java.lang.Object getConstant()' has been added

com.webmethods.caf.wsclient.saml.IArtifactFactory: Added public field SAML_VERSION_1_1

com.webmethods.caf.wsclient.saml.IArtifactFactory: Added public field SAML_VERSION_2_0

com.webmethods.caf.wsserver.auth.saml.ISamlConstants: Added public field SAML_ASSERTION

com.webmethods.portal.bizPolicy.biz.task.ITaskBizPolicy: Method 'public java.lang.String[] setInstancesStatus(com.webmethods.portal.bizPolicy.IContext, java.lang.String, java.lang.String, boolean, int)' has been added to an interface

com.webmethods.portal.bizPolicy.biz.task.impl.TaskBizPolicy: Method 'public java.lang.String[] setInstancesStatus(com.webmethods.portal.bizPolicy.IContext, java.lang.String, java.lang.String, boolean, int)' has been added

com.webmethods.portal.bizPolicy.biz.task.impl.TaskInfoExtended: Method 'public com.webmethods.portal.service.task.ITask getTask()' has been added

com.webmethods.portal.bizPolicy.command.task.SetInstancesStatus:Class com.webmethods.portal.bizPolicy.command.task.SetInstancesStatus added

com.webmethods.portal.bizPolicy.command.task.SetInstancesStatus$SetInstancesStatusCommandBean : Class com.webmethods.portal.bizPolicy.command.task.SetInstancesStatus$SetInstancesStatusCommandBean added

com.webmethods.portal.bizPolicy.command.task.jms.SetInstancesStatusJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.SetInstancesStatusJMS added

com.webmethods.portal.bizPolicy.command.task.jms.api.TaskCommandJMS: Added public field SET_INSTANCES_STATUS

com.webmethods.portal.bizPolicy.command.task.webservice.SetInstancesStatusWS: Class com.webmethods.portal.bizPolicy.command.task.webservice.SetInstancesStatusWS added

com.webmethods.portal.bizPolicy.command.task.webservice.SetInstancesStatusWS$SetInstancesStatus CommandBean: Class com.webmethods.portal.bizPolicy.command.task.webservice.SetInstancesStatusWS$SetInstancesStatus CommandBean added

com.webmethods.portal.framework.mech.install.StartWebApplications: Added public field USE_MULTI_THREAD_STARTUP

com.webmethods.portal.mech.task.ITaskMechanics: Method 'public java.lang.String canUpdateTask(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, java.util.Map)' has been added to an interface

com.webmethods.portal.mech.task.impl.TaskFacesHelper: Method 'public void registerAdditionalRuleContextBean(java.lang.String, java.lang.Object)' has been added

com.webmethods.portal.service.install.impl.PdpInstallService: Method 'protected void _doInstallPrepare(java.lang.String, java.util.Map)' has been added

com.webmethods.portal.service.meta2.IDBOStorageService: Method 'public void createTables(com.webmethods.portal.service.portlet.info.IPortletInfo, com.webmethods.portal.service.meta2.thing.IThingID, boolean)' has been added to an interface

com.webmethods.portal.service.meta2.impl.UserService: Method 'public void clearUserIDByURICache()' has been added

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxes: Added public field SYSTEM_PROPERTY_TE_TASK_SEARCH_INBOX_HINT

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory$TEServletContext: Method 'public java.lang.ClassLoader getClassLoader()' has been added

com.webmethods.portal.system.cluster.IServer: Added public field SERVER_TYPE_KEY

com.webmethods.portal.system.cluster.IServer: Method 'public com.webmethods.portal.system.cluster.IServer$ServerType getType()' has been added to an interface

com.webmethods.portal.system.cluster.IServer$ServerType: Class com.webmethods.portal.system.cluster.IServer$ServerType added

com.webmethods.portal.system.cluster.impl.Server: Method 'public com.webmethods.portal.system.cluster.IServer$ServerType getType()' has been added

com.webmethods.portal.system.cluster.impl.Server: Method 'public void setServerType(com.webmethods.portal.system.cluster.IServer$ServerType)' has been added

com.webmethods.portal.system.lock.IClusterLock: Added java.lang.AutoCloseable to the set of implemented interfaces

com.webmethods.portal.system.lock.IClusterLock: Method 'public void close()' has been added to an interface

com.webmethods.portal.system.lock.impl.ClusterLock: Added java.lang.AutoCloseable to the set of implemented interfaces

com.webmethods.portal.system.lock.impl.ClusterLock: Method 'public void close()' has been added

com.webmethods.rtl.jms.PortalClientOverJMS: Method 'public java.lang.String[]

setInstancesStatus(java.util.Map)' has been added

Removed API	Replacement, if any
com.webmethods.portal.framework.mech.install.StartWebApplications: Method 'protected void startWebApplications(com.webmethods.portal.service.install.IInstallService, com.webmethods.portal.service.view.IListView)' has been removed	
com.webmethods.portal.mech.socialendorsement.impl.EndorsementMechanics: Method 'public com.webmethods.portal.system.IURI lookupPrincipal(java.lang.Object, int)' has been removed	
com.webmethods.portal.mech.socialendorsement.impl.EndorsementMechanics: Method 'public com.webmethods.portal.system.IURI lookupPrincipal(java.lang.Object)' has been removed	
com.webmethods.portal.mech.task.impl.TaskHelper: Method 'public com.webmethods.portal.service.task.ITaskLockingService getTaskLockingService()' has been removed	
com.webmethods.portal.service.task.ITaskLock: Class com.webmethods.portal.service.task.ITaskLock removed	
com.webmethods.portal.service.task.ITaskLockingService: Class com.webmethods.portal.service.task.ITaskLockingService removed	
com.webmethods.portal.service.task.ITaskSystem: Method 'public com.webmethods.portal.service.task.ITaskLockingService getTaskLockingService()' has been removed	
com.webmethods.portal.service.task.impl.TaskDistributionService: Method 'protected java.util.List returnPagedTaskList(java.lang.String, java.lang.Object[], boolean)' has been removed	
com.webmethods.portal.service.task.impl.TaskLock: Class com.webmethods.portal.service.task.impl.TaskLock removed	
com.webmethods.portal.service.task.impl.TaskLockFailedException: Class com.webmethods.portal.service.task.impl.TaskLockFailedException removed	
com.webmethods.portal.service.task.impl.TaskLockingService: Class com.webmethods.portal.service.task.impl.TaskLockingService removed	
com.webmethods.portal.service.task.impl.TaskSystem: Method 'public com.webmethods.portal.service.task.ITaskLockingService getTaskLockingService()' has been removed	
com.webmethods.portal.system.cluster.impl.ClusterProvider: Field DISTRIBUTED_EVENTS_ENABLED_ATTR has been removed, but it was previously a constant	

Deprecated API	Replacement, if any
com.webmethods.rtl.util.FileUtil: Method 'public java.lang.String getRealLocationAtISatTaskApp(java.lang.String, java.lang.String)' has been deprecated	

Changed API	Description

com.webmethods.caf.faces.data.task.TaskDisplayProvider: Accessibility of field taskInfoKey has been increased from private to protected

com.webmethods.portal.framework.mech.install.StartWebApplications: In method 'public void startWebApplications()' the number of arguments has changed

com.webmethods.portal.framework.mech.install.StartWebApplications: Accessibility of method 'public void startWebApplications()' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Field logger is now static

com.webmethods.portal.service.meta2.dbo.impl.DBOStorageService: In method 'public void createTables(com.webmethods.portal.service.meta2.thing.IThingID, boolean)' the number of arguments has changed

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll: Accessibility of field taskTables has been increased from package to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$AcceptedByListFieldMapper: Increased visibility of class from package to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$CurrentUserAcceptedFieldMapper: Increased visibility of class from package to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$FieldMapper: Increased visibility of class from package to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo: Increased visibility of class from protected to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo: Accessibility of field hasBusinessDataFields has been increased from package to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo: Accessibility of field macros has been increased from package to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo:Accessibility of field params has been increased from package to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo: Accessibility of field sql has been increased from package to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo: Accessibility of method 'protected TaskSearchAll$QueryInfo()' has been increased from protected to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$TableDef: Increased visibility of class from package to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxes: Accessibility of field taskInboxTables has been increased from package to public

com.webmethods.portal.service.task.impl.TaskDistributionService:Accessibility of method 'protected int countTasks(com.webmethods.portal.service.task.ITaskSearchQueryExtended, com.webmethods.portal.service.task.SearchContext)' has been decreased from protected to private

com.webmethods.portal.service.task.impl.TaskDistributionService: Accessibility of method 'protected java.util.List getTaskList(com.webmethods.portal.service.task.ITaskSearchQueryExtended, com.webmethods.portal.service.task.SearchContext)' has been decreased from protected to private

Release 10.3

Added API	Description
com.softwareag.mws.screens.BaseScreenClass: Class com.softwareag.mws.screens.BaseScreenClass added	
com.softwareag.mws.screens.Constants: Class com.softwareag.mws.screens.Constants added	
com.softwareag.mws.screens.MWSLoginLogoutScreen: Class com.softwareag.mws.screens.MWSLoginLogoutScreen added	
com.softwareag.mws.screens.applications.administration.systemwide.usermanagement.UsersScreen: Class com.softwareag.mws.screens.applications.administration.systemwide.usermanagement.UsersScreen added	
com.webmethods.bpm.process.impl.BpmProcess: Method 'protected void loadFromIS()' has been added	
com.webmethods.bpm.process.impl.BpmProcessManager: Method 'public BpmProcessManager()' has been added	
com.webmethods.bpm.process.impl.BpmProcessManager: Method 'public java.lang.String getDatasourceLibMode()' has been added	
com.webmethods.bpm.process.impl.BpmProcessManagerIS: Class com.webmethods.bpm.process.impl.BpmProcessManagerIS added	
com.webmethods.bpm.process.impl.db.common.LoadProcessStepsIS: Class com.webmethods.bpm.process.impl.db.common.LoadProcessStepsIS added	
com.webmethods.caf.common.ServerCommon: Class com.webmethods.caf.common.ServerCommon added	
com.webmethods.caf.common.XMLUtil: Method 'public javax.xml.parsers.DocumentBuilderFactory getBuilderFactory()' has been added	
com.webmethods.caf.common.XMLUtil: Method 'public javax.xml.parsers.SAXParserFactory getSAXParserFactory()' has been added	

com.webmethods.caf.common.XMLUtil: Method 'public org.xml.sax.XMLReader getXMLParser(java.lang.ClassLoader)' has been added

com.webmethods.caf.faces.application.CAFValueExpression: Method 'public java.lang.Object getCAFValue(javax.el.ELContext)' has been added

com.webmethods.caf.faces.data.object.ObjectMethodContentProvider: Method 'protected boolean isSessionExpired()' has been added

com.webmethods.caf.faces.data.task.TaskBusinessCalendarModel: Method 'protected com.webmethods.sc.calendar.IWorkdayCalendar getCalendarByID(java.lang.String)' has been added

com.webmethods.caf.faces.data.ws.wss.WSSContentProvider: Method 'protected boolean isSessionExpired()' has been added

com.webmethods.caf.faces.portlet.PortletViewHandler: Method 'protected java.lang.String convertViewId(javax.faces.context.FacesContext, java.lang.String)' has been added

com.webmethods.caf.faces.render.html.input.DateInputRenderer: Method 'protected java.lang.Object convertDate(javax.faces.context.FacesContext, javax.faces.component.UIComponent, java.lang.Object, boolean, boolean)' has been added

com.webmethods.caf.wsclient.util.WSClientUtil: Method 'public java.util.Map constructClientAPI(java.lang.Class, java.lang.String, java.lang.String)' has been added

com.webmethods.caf.wsclient.util.WSClientUtil: Method 'public void reloadResource(java.lang.Class)' has been added

com.webmethods.caf.wsclient.util.XSDDateFormatMWS: Class com.webmethods.caf.wsclient.util.XSDDateFormatMWS added

com.webmethods.portal.bizPolicy.command.install.InstallBootstrapComponentsWithDependencies: Method 'protected boolean checkRealLocation(java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.install.InstallBootstrapComponentsWithDependencies: Method 'protected java.lang.String getComponentRealLocation(java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.system.xml.XMLImportContent: Method 'protected boolean checkResourceExists(java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.system.xml.XMLImportIncludeIS: Method 'protected java.io.InputStream getISTaskAppStream(java.lang.String, java.lang.String)' has been added

com.webmethods.portal.bizPolicy.impl.BootstrapPhase: Method 'protected void waitForOSGIServices()' has been added

com.webmethods.portal.jms.JMSPhaseProvider: Method 'protected void bindGlobalProvider(com.webmethods.portal.service.global.IGlobalProvider)' has been added

com.webmethods.portal.jms.JMSPhaseProvider: Method 'protected void bindRemoteEventDelivery(com.webmethods.portal.system.init.IInitializable)' has been added

com.webmethods.portal.mech.dir.impl.DirMechanicsUtils: Method 'public com.webmethods.portal.service.meta2.IUserService getUserService()' has been added

com.webmethods.portal.mech.dir.impl.DirMechanicsUtils: Method 'public com.webmethods.portal.service.meta2.thing.IThingID initializeUserWithResult(com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.mech.dir.impl.DirMechanicsUtils: Method 'public void initializeUser(com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.mech.install.impl.BasicInstallMechanics: Method 'protected boolean checkNeedsComponent(java.util.List, java.lang.String)' has been added

com.webmethods.portal.mech.install.impl.BasicInstallMechanics: Method 'protected java.lang.String getComponentLocationToRealLocation(java.lang.String)' has been added

com.webmethods.portal.mech.install.impl.InstallResolver: Method 'public void init(com.webmethods.portal.system.IComponentData, java.lang.String)' has been added

com.webmethods.portal.mech.install.impl.PortletInstallMechanics: Method 'protected com.webmethods.portal.service.portlet.info.IPortletInfo loadPortletInfo(java.lang.String)' has been added

com.webmethods.portal.mech.install.impl.UpgradeInstallComponentData: Method 'protected java.lang.String getComponentLocationToRealLocation(java.lang.String)' has been added

com.webmethods.portal.mech.portlet.IPortletProviderMechanics: Method 'public com.webmethods.portal.service.portlet.info.IPortletInfo getPortletInfo(java.io.InputStream, java.io.InputStream)' has been added to an interface

com.webmethods.portal.mech.portlet.impl.PortletProviderMechanics: Method 'public com.webmethods.portal.service.portlet.info.IPortletInfo getPortletInfo(java.io.InputStream, java.io.InputStream)' has been added

com.webmethods.portal.mech.portlet.impl.PortletProviderMechanics: Method 'public void init(com.webmethods.portal.system.IComponentData, java.lang.String)' has been added

com.webmethods.portal.mech.socialbpm.comments.impl.CommentsMechanics: Method 'public com.webmethods.portal.service.meta2.thing.IThingID getThingID(com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.mech.sql.impl.ConnectionManagerMechanicsIS: Class com.webmethods.portal.mech.sql.impl.ConnectionManagerMechanicsIS added

com.webmethods.portal.mech.task.ITaskHelper: Method 'public com.webmethods.portal.system.lock.IClusterLockingService getLockingService()' has been added to an interface

com.webmethods.portal.mech.task.impl.TaskChangeHandler: Method 'public TaskChangeHandler()' has been added

com.webmethods.portal.mech.task.impl.TaskChangeHandlerIS: Method 'public void ensureTaskLwqFileExist(java.lang.String)' has been added

com.webmethods.portal.mech.task.impl.TaskCompletionHandlerIS: Class com.webmethods.portal.mech.task.impl.TaskCompletionHandlerIS added

com.webmethods.portal.mech.task.impl.TaskHelper: Method 'public com.webmethods.portal.system.lock.IClusterLockingService getLockingService()' has been added

com.webmethods.portal.mech.task.impl.TaskHelperService: Method 'public com.webmethods.portal.system.lock.IClusterLockingService getLockingService()' has been added

com.webmethods.portal.mech.task.impl.TaskMechanics: Method 'protected void initHandlers(com.webmethods.portal.system.IComponentData, java.lang.String)' has been added

com.webmethods.portal.mech.task.impl.TaskMechanicsIS: Method 'protected void initHandlers(com.webmethods.portal.system.IComponentData, java.lang.String)' has been added

com.webmethods.portal.mech.task.impl.TaskScheduleHandlerIS: Class com.webmethods.portal.mech.task.impl.TaskScheduleHandlerIS added

com.webmethods.portal.mech.task.impl.TaskTimedEventHandlerIS: Class com.webmethods.portal.mech.task.impl.TaskTimedEventHandlerIS added

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public boolean isForceNewTab(com.webmethods.portal.service.view.IView)' has been added

com.webmethods.portal.service.dir.IDirPrincipal: Method 'public boolean isInitialized()' has been added to an interface

com.webmethods.portal.service.dir.impl.DirSystem: Method 'public void onSynchronousEvent(com.webmethods.portal.event.dir.IDirPrincipalDeleteEvent)' has been added

com.webmethods.portal.service.install.impl.BaseInstallService: Method 'protected java.lang.String getResourceLocation(java.lang.String, java.lang.String)' has been added

com.webmethods.portal.service.install.impl.BaseInstallService: Method 'protected void registerComponent(com.webmethods.portal.system.IInitializableComponentData, java.lang.String)' has been added

com.webmethods.portal.service.install.impl.PdpInstallService: Method 'protected com.webmethods.portal.schema.wmportletapp.PortletType _loadPortletType(java.util.Map)' has been added

com.webmethods.portal.service.install.impl.PdpInstallService: Method 'protected void _doRegisterComponent(java.util.Map)' has been added

com.webmethods.portal.service.install.impl.PdpInstallService: Method 'protected void _saveTempPortletInitData(java.util.Map)' has been added

com.webmethods.portal.service.meta2.util.ThingHelper: Class com.webmethods.portal.service.meta2.util.ThingHelper added

com.webmethods.portal.service.portlet.IPortletProvider: Method 'public com.webmethods.portal.service.portlet.info.IPortletInfo getPortletInfo(java.io.InputStream, java.io.InputStream)' has been added to an interface

com.webmethods.portal.service.portlet.impl.PortletProvider: Method 'public com.webmethods.portal.service.portlet.info.IPortletInfo getPortletInfo(java.io.InputStream,

java.io.InputStream)' has been added

com.webmethods.portal.service.socialbpm.comments.impl.CommentsServiceIS: Class com.webmethods.portal.service.socialbpm.comments.impl.CommentsServiceIS added

com.webmethods.portal.service.sql.ISqlWorker: Method 'public void close()' has been added to an interface

com.webmethods.portal.service.sql.core.BaseSqlWorker: Method 'public boolean isCurrentlyInUse()' has been added

com.webmethods.portal.service.sql.core.BaseSqlWorker: Method 'public void close()' has been added

com.webmethods.portal.service.sql.runtime.base.CommentEntryUserDeleted: Class com.webmethods.portal.service.sql.runtime.base.CommentEntryUserDeleted added

com.webmethods.portal.service.task.ITaskDefinition: Method 'public com.softwareag.caf.shared.task.core.model.TaskDataDefTable getTaskDataTable()' has been added to an interface

com.webmethods.portal.service.task.ITaskSystem: Method 'public com.webmethods.portal.system.lock.IClusterLockingService getLockingService()' has been added to an interface

com.webmethods.portal.service.task.event.impl.TaskChangedEvent: Method 'public boolean isHiddenUpdate()' has been added

com.webmethods.portal.service.task.event.impl.TaskChangedEvent: Method 'public void setHiddenUpdate(boolean)' has been added

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory: Method 'public java.net.URLClassLoader getTaskClassLoader(java.lang.String)' has been added

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory: Method 'public void removeTaskClassLoader(java.lang.String)' has been added

com.webmethods.portal.service.task.impl.TaskDefinitionView: Method 'public com.softwareag.caf.shared.task.core.model.TaskDataDefTable getTaskDataTable()' has been added

com.webmethods.portal.service.task.impl.TaskDistributionServiceIS: Class com.webmethods.portal.service.task.impl.TaskDistributionServiceIS added

com.webmethods.portal.service.task.impl.TaskProcessAuditServiceIS: Class com.webmethods.portal.service.task.impl.TaskProcessAuditServiceIS added

com.webmethods.portal.service.task.impl.TaskSystem: Method 'protected void bindClusterLockingService(com.webmethods.portal.system.lock.IClusterLockingService)' has been added

com.webmethods.portal.service.task.impl.TaskSystem: Method 'public com.webmethods.portal.system.lock.IClusterLockingService getLockingService()' has been added

com.webmethods.portal.system.BaseComponent: Method 'protected void bindGlobalProvider(com.webmethods.portal.service.global.IGlobalProvider)' has been added

com.webmethods.portal.system.PortalSystem: Method 'public boolean isTELibrary()' has been added

com.webmethods.portal.system.init.impl.ClusterPhaseProvider: Method 'protected java.lang.String getLocalConfigRootPath()' has been added

com.webmethods.portal.system.init.impl.ClusterPhaseProvider: Method 'protected void initDbConnection()' has been added

com.webmethods.portal.system.lock.impl.LockKey: Class com.webmethods.portal.system.lock.impl.LockKey added

com.webmethods.portal.webapp.jetty7.WebApplicationInstallService: Method 'protected java.lang.String checkTaskAppVersionIsUptodate(java.lang.String)' has been added

com.webmethods.portal.webapp.jetty7.WebApplicationInstallService: Method 'protected void fixOldTaskClasses(java.io.File, java.lang.String)' has been added

com.webmethods.rtl.locator.impl.ClassLocator: Method 'public ClassLocator(java.lang.String, java.lang.String)' has been added

com.webmethods.rtl.tools.PrettyProperties$NameValue: Class com.webmethods.rtl.tools.PrettyProperties$NameValue added

com.webmethods.rtl.tools.PrettyProperties: Class com.webmethods.rtl.tools.PrettyProperties added

com.webmethods.rtl.util.xml.XMLUtil: Method 'public java.lang.String toString(org.w3c.dom.Node, int, boolean)' has been added

com.webmethods.caf.faces.portlet.PortletViewHandler: Added com.sun.faces.application.view.MultiViewHandler to the list of superclasses

com.webmethods.caf.jcr.faces.data.query.PropertySearchTerm: Added protected field sRandom

com.webmethods.caf.wsclient.proxy.impl.WSClientDynamicProxy: Added public field REMOVE_WSDL_FROM_GLUE_CACHE

com.webmethods.mws.acdl.GenerateAcdlForProject: Added public field OPTION_IS_TASK_ENGINE

com.webmethods.portal.bizPolicy.command.task.webservice.QueueTaskWS: Added protected field DELAY_DEFAULT_VALUE

com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler: Added public field DB_ATTRIBUTES_PROVIDER

com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler: Added public field DB_ATTR_TITLE

com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler: Added public field LDAP_ATTRIBUTES_PROVIDER

com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler: Added public field LDAP_ATTR_TITLE

com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler: Added public field PROFILE_ATTRIBUTES_PROVIDER

com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler: Added public field USER_INFORMATION_TITLE

com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler: Added public field USER_PROFILE_ATTR_TITLE

com.webmethods.portal.framework.presentation.renderers.DefaultRenderer: Added public field CONTENT_SECURITY_CUSTOM_HOSTS_PROP

com.webmethods.portal.framework.presentation.renderers.DefaultRenderer: Added public field CONTENT_SECURITY_DISABLED_PROP

com.webmethods.portal.framework.presentation.renderers.DefaultRenderer: Added public field CONTENT_SECURITY_POLICY_ENABLED

com.webmethods.portal.service.dir.impl.DirSystem: Added com.webmethods.portal.event.dir.IDirPrincipalDeleteEvent$ISynchronousListener to the set of implemented interfaces

com.webmethods.portal.service.sql.ISqlWorker: Added java.lang.AutoCloseable to the set of implemented interfaces

com.webmethods.portal.service.sql.core.BaseSqlWorker: Added java.lang.AutoCloseable to the set of implemented interfaces

com.webmethods.portal.service.sql.core.ConnectionManager: Added public field ORACLE_URL_PARSER_EXPRESSION_SERVICENAME

com.webmethods.portal.service.sql.core.ConnectionManager: Added public field ORACLE_URL_TEMPLATE_SERVICENAME

com.webmethods.portal.service.task.event.impl.TaskChangedEvent: Added protected field hiddenUpdate

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory: Added public field TASK_ASSETS_HOME_PROP

com.webmethods.portal.system.PortalSystem: Added public field TASK_ENGINE_LIBRARY_MODE

com.webmethods.rtl.locator.impl.StreamLocatorFactory: Added public field TEMP_PROTOCOL

Removed API	Replacement, if any
com.webmethods.caf.faces.portlet.PortletViewHandler: Method 'public java.lang.Object getWrapped()' has been removed	
com.webmethods.caf.faces.portlet.PortletViewHandler: Method 'public javax.faces.application.ViewHandler getWrapped()' has been removed	
com.webmethods.portal.bizPolicy.command.dir.rs.BasePrincipalResource: Method 'protected java.util.List getProfileAttributes(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.service.dir.IDirPrincipal)' has been removed	

com.webmethods.portal.bizPolicy.command.system.xml.XMLImportContextIS: Method 'protected com.webmethods.portal.system.IURI importNode(com.webmethods.portal.bizPolicy.IContext, org.w3c.dom.Element, com.webmethods.portal.system.IURI, java.util.List)' has been removed, but an inherited definition exists.

com.webmethods.portal.event.impl.RemoteEventDeliveryInitializer: Method 'protected void bindJMSPhaseProvider(com.webmethods.portal.system.IComponent)' has been removed

com.webmethods.portal.framework.mech.install.PortletAppilcationInstallMechanics: Method 'protected void clearContextRequestAttributes(com.webmethods.portal.bizPolicy.IContext)' has been removed

com.webmethods.portal.mech.task.ITaskHelper: Method 'public com.webmethods.portal.service.task.ITaskLockingService getTaskLockingService()' has been removed

com.webmethods.portal.mech.task.impl.TaskHelperService: Method 'public com.webmethods.portal.service.task.ITaskLockingService getTaskLockingService()' has been removed

com.webmethods.portal.mech.task.impl.TaskMechanicsIS: Method 'protected com.webmethods.portal.service.task.ITaskList listTasks(com.webmethods.portal.system.IURI, com.webmethods.portal.service.task.TaskSearchQuery, boolean, boolean)' has been removed, but an inherited definition exists.

com.webmethods.portal.service.task.ITaskLockingService: Method 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long)' has been removed

com.webmethods.portal.service.task.ITaskLockingService: Method 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long, boolean)' has been removed

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory$ITaskClassLoader: Class com.webmethods.portal.service.task.impl.TaskClassLoaderFactory$ITaskClassLoader removed

com.webmethods.portal.service.task.impl.TaskLockingService: Method 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long)' has been removed

com.webmethods.portal.service.task.impl.TaskLockingService: Method 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long, boolean)' has been removed

com.webmethods.portal.service.task.impl.TaskLockingService: Method 'public long getDbTimeOffset()' has been removed

com.webmethods.portal.system.lock.impl.ClusterLockingService: Method 'public long getDbTimeOffset()' has been removed

com.webmethods.rtl.util.PrettyProperties$NameValue: Class com.webmethods.rtl.util.PrettyProperties$NameValue removed

com.webmethods.rtl.util.PrettyProperties: Class com.webmethods.rtl.util.PrettyProperties removed

com.webmethods.caf.faces.portlet.PortletViewHandler: Removed field wrapped

com.webmethods.caf.faces.portlet.PortletViewHandler: Removed javax.faces.FacesWrapper from the set of implemented interfaces

com.webmethods.caf.faces.portlet.PortletViewHandler: Removed javax.faces.application.ViewHandlerWrapper from the list of superclasses

com.webmethods.caf.jcr.faces.data.query.PropertySearchTerm: Removed field random

com.webmethods.portal.mech.task.impl.TaskMechanics: Removed field MIN_INBOX_SEARCH_THREADS

com.webmethods.portal.mech.task.impl.TaskMechanics: Removed field MIN_TASK_UPDATE_THREADS

Deprecated API	Replacement, if any

com.webmethods.portal.mech.task.impl.TaskHelper: Method 'public com.webmethods.portal.service.task.ITaskLockingService getTaskLockingService()' has been deprecated

com.webmethods.portal.service.sql.ISqlWorker: Method 'public void release()' has been deprecated

com.webmethods.portal.service.sql.core.BaseSqlWorker: Method 'public void release()' has been deprecated

Changed API	Description

com.webmethods.caf.faces.component.output.ChartDataColumn: Parameter 1 of 'public void setItemValue(java.lang.Number)' has changed its type to java.lang.Object

com.webmethods.caf.faces.component.output.ChartDataColumn: Return type of method 'public java.lang.Number getItemValue()' has been changed to java.lang.Object

com.webmethods.caf.faces.portlet.PortletViewHandler: In method 'public PortletViewHandler(javax.faces.application.ViewHandler)' the number of arguments has changed

com.webmethods.caf.faces.render.html.input.DateInputRenderer: In method 'protected void writeTimeZone(javax.faces.context.FacesContext, javax.faces.component.UIComponent, java.util.Date)' the number of arguments has changed

com.webmethods.portal.mech.task.impl.TaskMechanics: In method 'public void fireTaskChangedEvent(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, com.webmethods.portal.service.task.ITask, com.webmethods.portal.service.task.ITask, java.lang.Object, java.lang.Object, int, boolean)' the number of arguments has changed

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory: In method 'public java.lang.Object getTaskInstance(java.lang.String)' the number of arguments has changed

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory: In method 'public void

addTaskClassLoader(com.webmethods.portal.service.task.impl.TaskClassLoaderFactory$ITaskClassLoader)' the number of arguments has changed

com.webmethods.portal.system.lock.IClusterLockingService: In method 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long, boolean)' the number of arguments has changed

com.webmethods.portal.system.lock.IClusterLockingService: Parameter 2 of 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long)' has changed its type to long

com.webmethods.portal.system.lock.IClusterLockingService: Parameter 4 of 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long)' has changed its type to boolean

com.webmethods.portal.system.lock.impl.ClusterLockingService: In method 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long, boolean)' the number of arguments has changed

com.webmethods.portal.system.lock.impl.ClusterLockingService: Parameter 2 of 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long)' has changed its type to long

com.webmethods.portal.system.lock.impl.ClusterLockingService: Parameter 4 of 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long)' has changed its type to boolean

com.webmethods.rtl.util.xml.XMLUtil: In method 'protected void _dumpXML(org.w3c.dom.Node, java.io.Writer, int, int)' the number of arguments has changed

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Added API	Description
com.softwareag.mws.screens.BaseScreenClass Class com.softwareag.mws.screens.BaseScreenClass added	
com.softwareag.mws.screens.Constants Class com.softwareag.mws.screens.Constants added	
com.softwareag.mws.screens.MWSLoginLogoutScreen Class com.softwareag.mws.screens.MWSLoginLogoutScreen added	
com.softwareag.mws.screens.applications.administration.systemwide.usermanagement.UsersScreen Class com.softwareag.mws.screens.applications.administration.systemwide.usermanagement.UsersScreen added	
com.webmethods.caf.common.cipher.MWSCipherDataStore Class com.webmethods.caf.common.cipher.MWSCipherDataStore added	
com.webmethods.caf.common.cipher.MWSCipherMasterPassword Class com.webmethods.caf.common.cipher.MWSCipherMasterPassword added	

com.webmethods.caf.common.cipher.SecretDS Class com.webmethods.caf.common.cipher.SecretDS added

com.webmethods.caf.faces.component.util.ShadowComponentMapCacheEntry Class com.webmethods.caf.faces.component.util.ShadowComponentMapCacheEntry added

com.webmethods.caf.faces.data.attachments.BasePortalContainerAttachmentsProvider Method 'public java.lang.String getEncoding(java.lang.String)' has been added

com.webmethods.caf.faces.data.comments.impl.CommentsListProvider Method 'public com.webmethods.portal.service.access.IAclManager createAclManager(java.lang.String, java.lang.String)' has been added

com.webmethods.portal.bizPolicy.biz.task.impl.TaskAuditBizPolicy Method 'public java.util.Collection getWebServiceCommands(com.webmethods.portal.bizPolicy.IContext)' has been added

com.webmethods.portal.bizPolicy.command.IJSONAdapter Method 'public java.util.Map getSchemaFields(java.lang.Class, java.util.Map, com.webmethods.portal.bizPolicy.command.IJSONAdapterFactory, java.util.Map)' has been added to an interface

com.webmethods.portal.bizPolicy.command.IJSONAdapterFactory Method 'public java.util.Map getSchemaFields(java.lang.Class, java.util.Map, java.util.Map)' has been added to an interface

com.webmethods.portal.bizPolicy.command.alias.SetThingAliases Method 'protected void checkAccess(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.mech.alias.IAliasMechanics, com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.bizPolicy.command.dir.rs.BasePrincipalResource Method 'protected java.util.List getProfileAttributes(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.service.dir.IDirPrincipal)' has been added

com.webmethods.portal.bizPolicy.command.dir.rs.BasePrincipalResource Method 'public javax.ws.rs.core.Response getPersonalData(javax.servlet.http.HttpServletRequest, java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.dir.rs.DirJSONAdapter Method 'public java.util.Map getSchemaFields(java.lang.Class, java.util.Map, com.webmethods.portal.bizPolicy.command.IJSONAdapterFactory, java.util.Map)' has been added

com.webmethods.portal.bizPolicy.command.impl.CommandBean Method 'protected java.text.SimpleDateFormat getSDF()' has been added

com.webmethods.portal.bizPolicy.command.impl.CommandBean Method 'protected java.text.SimpleDateFormat getSDFDotNet()' has been added

com.webmethods.portal.bizPolicy.command.impl.JSONAdapterFactory Method 'public java.util.Map getSchemaFields(java.lang.Class, java.util.Map, java.util.Map)' has been added

com.webmethods.portal.bizPolicy.command.impl.rs.AbstractJSONAdapter Class

com.webmethods.portal.bizPolicy.command.impl.rs.AbstractJSONAdapter added

 com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource Method 'protected java.lang.String sanitizeMessage(java.lang.String)' has been added

 com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource Method 'protected javax.ws.rs.core.Response sendException(javax.servlet.http.HttpServletRequest, java.lang.Exception, java.lang.String, int)' has been added

 com.webmethods.portal.bizPolicy.command.impl.rs.BasicJSONAdapter Method 'protected com.webmethods.portal.service.view.IView getView(com.webmethods.portal.system.IURI)' has been added

 com.webmethods.portal.bizPolicy.command.impl.rs.BasicJSONAdapter Method 'protected void addIfNotSetAndNonNullValue(java.lang.String, java.lang.Object, java.util.Map)' has been added

 com.webmethods.portal.bizPolicy.command.impl.rs.BasicJSONAdapter Method 'public java.util.Map getSchemaFields(java.lang.Class, java.util.Map, com.webmethods.portal.bizPolicy.command.IJSONAdapterFactory, java.util.Map)' has been added

 com.webmethods.portal.bizPolicy.command.impl.rs.BizPolicyResource Class com.webmethods.portal.bizPolicy.command.impl.rs.BizPolicyResource added

 com.webmethods.portal.bizPolicy.command.impl.rs.CommandDocBuilder Class com.webmethods.portal.bizPolicy.command.impl.rs.CommandDocBuilder added

 com.webmethods.portal.bizPolicy.command.impl.rs.CommandResource Method 'public javax.ws.rs.core.Response getCommandSpecification(javax.servlet.http.HttpServletRequest, javax.servlet.http.HttpServletResponse, java.lang.String)' has been added

 com.webmethods.portal.bizPolicy.command.impl.rs.CommandResource Method 'public javax.ws.rs.core.Response getSpecification(javax.servlet.http.HttpServletRequest)' has been added

 com.webmethods.portal.bizPolicy.command.impl.rs.ConnectionInfoJSONAdapter Method 'public java.util.Map getSchemaFields(java.lang.Class, java.util.Map, com.webmethods.portal.bizPolicy.command.IJSONAdapterFactory, java.util.Map)' has been added

 com.webmethods.portal.bizPolicy.command.impl.rs.DefaultJSONAdapter Class com.webmethods.portal.bizPolicy.command.impl.rs.DefaultJSONAdapter added

 com.webmethods.portal.bizPolicy.command.impl.rs.util.FluentList Class com.webmethods.portal.bizPolicy.command.impl.rs.util.FluentList added

 com.webmethods.portal.bizPolicy.command.impl.rs.util.FluentMap Class com.webmethods.portal.bizPolicy.command.impl.rs.util.FluentMap added

 com.webmethods.portal.bizPolicy.command.impl.rs.util.FluentOrderedMap Class com.webmethods.portal.bizPolicy.command.impl.rs.util.FluentOrderedMap added

 com.webmethods.portal.bizPolicy.command.impl.rs.util.IFluentMap Class com.webmethods.portal.bizPolicy.command.impl.rs.util.IFluentMap added

 com.webmethods.portal.bizPolicy.command.page.ModifyPage2IS Class

com.webmethods.portal.bizPolicy.command.page.ModifyPage2IS added

com.webmethods.portal.bizPolicy.command.system.xml.XMLImportContextIS Class com.webmethods.portal.bizPolicy.command.system.xml.XMLImportContextIS added

com.webmethods.portal.bizPolicy.command.system.xml.XMLImportIncludeIS Class com.webmethods.portal.bizPolicy.command.system.xml.XMLImportIncludeIS added

com.webmethods.portal.bizPolicy.command.task.rs.TaskJSONAdapter Class com.webmethods.portal.bizPolicy.command.task.rs.TaskJSONAdapter added

com.webmethods.portal.bizPolicy.command.task.webservice.UpdateTaskAttachmentWS$UpdateTask AttachmentCommandBean Method 'protected boolean excludePropertyDescriptor(java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.task.webservice.UpdateTaskAttachmentWS$UpdateTask AttachmentCommandBean Method 'public void setAttachmentID(java.lang.String)' has been added

com.webmethods.portal.event.dir.IDirPrincipalDeleteEvent Method 'public com.webmethods.portal.service.meta2.thing.IThingID getGetDirectoryServiceThingID()' has been added to an interface

com.webmethods.portal.event.dir.IDirPrincipalDeleteEvent Method 'public com.webmethods.portal.system.IURI getDirectoryURI()' has been added to an interface

com.webmethods.portal.event.dir.IDirPrincipalDeleteEvent Method 'public java.lang.String getEmail()' has been added to an interface

com.webmethods.portal.event.dir.IDirPrincipalDeleteEvent Method 'public java.lang.String getPrincipalDN()' has been added to an interface

com.webmethods.portal.event.dir.IDirPrincipalModifyEvent Method 'public java.lang.Object getPropertyOldValue()' has been added to an interface

com.webmethods.portal.event.dir.impl.DirPrincipalDeleteEvent Method 'public DirPrincipalDeleteEvent(com.webmethods.portal.service.dir.IDirPrincipal, com.webmethods.portal.service.dir.IDirPrincipalList, com.webmethods.portal.service.dir.IDirPrincipalList, com.webmethods.portal.service.meta2.thing.IThingID)' has been added

com.webmethods.portal.event.dir.impl.DirPrincipalDeleteEvent Method 'public com.webmethods.portal.service.meta2.thing.IThingID getGetDirectoryServiceThingID()' has been added

com.webmethods.portal.event.dir.impl.DirPrincipalDeleteEvent Method 'public com.webmethods.portal.system.IURI getDirectoryURI()' has been added

com.webmethods.portal.event.dir.impl.DirPrincipalDeleteEvent Method 'public com.webmethods.portal.system.IURI getPrincipalURI()' has been added

com.webmethods.portal.event.dir.impl.DirPrincipalDeleteEvent Method 'public java.lang.String getEmail()' has been added

com.webmethods.portal.event.dir.impl.DirPrincipalDeleteEvent Method 'public java.lang.String getPrincipalDN()' has been added

com.webmethods.portal.event.dir.impl.DirPrincipalModifyEvent Method 'public DirPrincipalModifyEvent(com.webmethods.portal.system.IURI, com.webmethods.portal.service.meta2.thing.IThingID, java.lang.String, java.lang.Object, java.lang.Object, com.webmethods.portal.service.meta2.thing.IThingID)' has been added

com.webmethods.portal.event.dir.impl.DirPrincipalModifyEvent Method 'public DirPrincipalModifyEvent(com.webmethods.portal.system.IURI, java.lang.String, java.lang.Object, java.lang.Object, com.webmethods.portal.service.meta2.thing.IThingID)' has been added

com.webmethods.portal.event.dir.impl.DirPrincipalModifyEvent Method 'public java.lang.Object getPropertyOldValue()' has been added

com.webmethods.portal.event.system.IDistributedConfigChangedEvent Class com.webmethods.portal.event.system.IDistributedConfigChangedEvent added

com.webmethods.portal.event.system.IDistributedConfigChangedEvent$IListener Class com.webmethods.portal.event.system.IDistributedConfigChangedEvent$IListener added

com.webmethods.portal.event.system.IDistributedConfigChangedEvent$ISynchronousListener Class com.webmethods.portal.event.system.IDistributedConfigChangedEvent$ISynchronousListener added

com.webmethods.portal.event.system.IDistributedConfigChangedEvent$Listeners Class com.webmethods.portal.event.system.IDistributedConfigChangedEvent$Listeners added

com.webmethods.portal.event.system.IDistributedConfigChangedEvent$SynchronousListeners Class com.webmethods.portal.event.system.IDistributedConfigChangedEvent$SynchronousListeners added

com.webmethods.portal.event.system.impl.DistributedConfigChangedEvent Class com.webmethods.portal.event.system.impl.DistributedConfigChangedEvent added

com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler Class com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler added

com.webmethods.portal.framework.session.handlers.LoginScript Method 'protected void bindSystemPolicy(com.webmethods.portal.bizPolicy.biz.system.ISystemPolicy)' has been added

com.webmethods.portal.framework.session.handlers.Validate Method 'protected void bindJMSPhaseProvider(com.webmethods.portal.system.IComponent)' has been added

com.webmethods.portal.framework.session.impl.SessionManager Method 'protected void bindAuthManager(com.webmethods.portal.framework.IAuthManager)' has been added

com.webmethods.portal.jms.db.impl.db2.PurgeEvents Method 'protected java.lang.String getDeleteEventsQuery()' has been added

com.webmethods.portal.jms.um.UmJMSConnProvider Method 'protected void registerJMSObjects(org.w3c.dom.Element)' has been added

com.webmethods.portal.mech.dir.IDirServiceMechanics Method 'public void fireDeletePrincipalEvent(com.webmethods.portal.service.dir.IDirPrincipal,

com.webmethods.portal.service.dir.IDirPrincipalList,
com.webmethods.portal.service.dir.IDirPrincipalList)' has been added to an interface

com.webmethods.portal.mech.dir.IPrincipalAttributeMechanics Method 'public void
fireModifyPrincipalEvent(com.webmethods.portal.service.meta2.thing.IThingID,
com.webmethods.portal.system.IURI, com.webmethods.portal.service.meta2.thing.IThingID,
java.lang.String, java.lang.Object, java.lang.Object)' has been added to an interface

com.webmethods.portal.mech.dir.impl.DirServiceMechanics Method 'protected boolean
isUserPrivacyEnabled()' has been added

com.webmethods.portal.mech.dir.impl.DirServiceMechanics Method 'public void
fireDeletePrincipalEvent(com.webmethods.portal.service.dir.IDirPrincipal,
com.webmethods.portal.service.dir.IDirPrincipalList,
com.webmethods.portal.service.dir.IDirPrincipalList)' has been added

com.webmethods.portal.mech.dir.impl.PrincipalAttributeMechanics Method 'public void
fireModifyPrincipalEvent(com.webmethods.portal.service.meta2.thing.IThingID,
com.webmethods.portal.system.IURI, com.webmethods.portal.service.meta2.thing.IThingID,
java.lang.String, java.lang.Object, java.lang.Object)' has been added

com.webmethods.portal.mech.rules.impl.TEELContext Class
com.webmethods.portal.mech.rules.impl.TEELContext added

com.webmethods.portal.mech.rules.impl.TEExpressionResolver Class
com.webmethods.portal.mech.rules.impl.TEExpressionResolver added

com.webmethods.portal.mech.schedule.impl.ScheduleMechanicsIS Class
com.webmethods.portal.mech.schedule.impl.ScheduleMechanicsIS added

com.webmethods.portal.mech.task.impl.TaskChangeHandlerIS Class
com.webmethods.portal.mech.task.impl.TaskChangeHandlerIS added

com.webmethods.portal.mech.task.impl.TaskContextHelper Class
com.webmethods.portal.mech.task.impl.TaskContextHelper added

com.webmethods.portal.mech.task.impl.TaskDataHelper Method 'public java.lang.Object[]
resolveTaskFields(com.webmethods.portal.service.task.ITask,
com.webmethods.portal.service.task.ITaskData, java.lang.String[])' has been added

com.webmethods.portal.mech.task.impl.TaskMechanics Method 'protected void
bindMechanicsManager(com.webmethods.portal.mech.IMechanicsManager)' has been added

com.webmethods.portal.mech.task.impl.TaskMechanicsIS Class
com.webmethods.portal.mech.task.impl.TaskMechanicsIS added

com.webmethods.portal.mech.task.impl.TaskRuleContext Method 'public
TaskRuleContext(com.webmethods.caf.rules.IRuleContext, java.util.Map)' has been added

com.webmethods.portal.mech.task.impl.TaskRuleContext Method 'public java.util.Map
getContextMap()' has been added

com.webmethods.portal.mech.task.impl.TaskRuleContext Method 'public void

setContextMap(java.util.Map)' has been added

 com.webmethods.portal.service.access.IAclManager Method 'public void setResourceType(java.lang.String)' has been added to an interface

 com.webmethods.portal.service.access.IAclManager Method 'public void setUserID(java.lang.String)' has been added to an interface

 com.webmethods.portal.service.cache.ICacheManager Method 'public void configureCache(java.lang.String, java.util.Map)' has been added to an interface

 com.webmethods.portal.service.cache.impl.CacheManager Method 'protected java.util.Collection getRegistryBasedComponentCollection()' has been added

 com.webmethods.portal.service.cache.impl.CacheManager Method 'protected void configureCacheFromRegisrty(java.lang.String)' has been added

 com.webmethods.portal.service.cache.impl.CacheManager Method 'public void configureCache(java.lang.String, java.util.Map)' has been added

 com.webmethods.portal.service.dir.IDirCache Method 'public void clearQueryCache()' has been added to an interface

 com.webmethods.portal.service.dir.IDirServiceThing Class com.webmethods.portal.service.dir.IDirServiceThing added

 com.webmethods.portal.service.dir.IUserPrivacyService Class com.webmethods.portal.service.dir.IUserPrivacyService added

 com.webmethods.portal.service.dir.IUserPrivacyService$NotificationType Class com.webmethods.portal.service.dir.IUserPrivacyService$NotificationType added

 com.webmethods.portal.service.dir.impl.DirCache Method 'public void clearQueryCache()' has been added

 com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'protected com.webmethods.portal.service.dir.IDirPrincipal getCurrentDirPrincipal()' has been added

 com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'protected com.webmethods.portal.service.meta2.thing.IThingID getCurrentPrincipalThingID()' has been added

 com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'protected long getCreatedTime()' has been added

 com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'protected long getLastModifiedTime()' has been added

 com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'protected void deletePrincipal()' has been added

 com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'public boolean canDeleteUser()' has been added

 com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'public boolean

isEditingSelf(com.webmethods.portal.bizPolicy.IContext)' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'public boolean isMemberOfAdminRole()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'public boolean isSysAdminPrincipal()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'public boolean isUserPrivacyEnabled()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'public void DeleteUser()' has been added

com.webmethods.portal.service.portlet.impl.PortletProvider Method 'protected void bindThingIDService(com.webmethods.portal.service.meta2.IThingIDService)' has been added

com.webmethods.portal.service.portlet.impl.PortletProvider Method 'protected void bindXTypeService(com.webmethods.portal.service.meta2.IXTypeService)' has been added

com.webmethods.portal.service.scheduler.Scheduler Method 'protected void bindClusterLockingService(com.webmethods.portal.system.lock.IClusterLockingService)' has been added

com.webmethods.portal.service.scheduler.Scheduler Method 'protected void unbindClusterLockingService(com.webmethods.portal.system.lock.IClusterLockingService)' has been added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$FieldValueConverter Method 'public com.webmethods.portal.service.meta2.thing.IThingID getThingIDHelper(com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$FieldValueConverter Method 'public com.webmethods.portal.system.IURI getURIHelper(java.lang.String)' has been added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$FieldValueConverter Method 'public com.webmethods.portal.system.IURI lookupPrincipalHelper(java.lang.Object)' has been added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$FieldValueConverter Method 'public com.webmethods.portal.system.IURI lookupPrincipalHelper(java.lang.Object, int)' has been added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$FieldValueConverter Method 'public int getIntPriorityHelper(java.lang.String)' has been added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$FieldValueConverter Method 'public int getIntStatusHelper(java.lang.String)' has been added

com.webmethods.portal.service.task.TaskSearchQuery Method 'public boolean matches(java.util.Map, com.webmethods.caf.rules.IBindingExpressionEvaluator)' has been added

com.webmethods.portal.service.task.TaskSearchQueryTerm Method 'public boolean matches(java.util.Map, com.webmethods.caf.rules.IBindingExpressionEvaluator)' has been added

com.webmethods.portal.service.task.TaskSearchQueryTerm Method 'public java.util.List

getFieldExpressionsString(java.util.Map, com.webmethods.caf.rules.IBindingExpressionEvaluator)' has been added

 com.webmethods.portal.service.task.impl.TaskClassLoaderFactory Class com.webmethods.portal.service.task.impl.TaskClassLoaderFactory added

 com.webmethods.portal.service.task.impl.TaskClassLoaderFactory$ITaskClassLoader Class com.webmethods.portal.service.task.impl.TaskClassLoaderFactory$ITaskClassLoader added

 com.webmethods.portal.service.task.impl.TaskDBIndexManagerHelper Class com.webmethods.portal.service.task.impl.TaskDBIndexManagerHelper added

 com.webmethods.portal.service.task.impl.TaskIndexTableViewHelper Class com.webmethods.portal.service.task.impl.TaskIndexTableViewHelper added

 com.webmethods.portal.service.task.impl.TaskService Method 'public void flushTaskInfoCache(com.webmethods.portal.system.IURI)' has been added

 com.webmethods.portal.service.task.impl.TaskServiceIS Class com.webmethods.portal.service.task.impl.TaskServiceIS added

 com.webmethods.portal.service.task.impl.TaskSystem Method 'protected com.webmethods.portal.system.IComponentData createComponentData(com.webmethods.portal.system.IInitializableComponentData)' has been added

 com.webmethods.portal.service.task.impl.TaskSystem Method 'protected java.util.Collection getThingBasedComponentCollection()' has been added

 com.webmethods.portal.system.PortalSystem Method 'public java.lang.Boolean isLibraryMode()' has been added

 com.webmethods.portal.webservices.SOAPMonitorConstants Class com.webmethods.portal.webservices.SOAPMonitorConstants added

 com.webmethods.portal.webservices.SOAPMonitorData Method 'public SOAPMonitorData(java.lang.Integer, java.lang.Long, java.lang.String, java.lang.String, java.lang.String)' has been added

 com.webmethods.portal.webservices.SOAPMonitorData Method 'public java.lang.String getContentType()' has been added

 com.webmethods.portal.webservices.SOAPMonitorData Method 'public java.lang.String getMessageText()' has been added

 com.webmethods.portal.webservices.SOAPMonitorData Method 'public void setContentType(java.lang.String)' has been added

 com.webmethods.portal.webservices.SOAPMonitorData Method 'public void setMessageText(java.lang.String)' has been added

 com.webmethods.rtl.locator.impl.DBConfigLocator Method 'protected void fireConfigChangedEvent(java.lang.String)' has been added

 com.webmethods.rtl.util.FileUtil Method 'public java.lang.String

getRealLocationAtIS(java.lang.String)' has been added

com.webmethods.rtl.util.FileUtil Method 'public java.lang.String getRealLocationAtISatTaskApp(java.lang.String, java.lang.String)' has been added

Removed API	Replacement, if any

com.webmethods.portal.bizPolicy.biz.impl.BizPolicy Method 'public java.lang.Class[] getExtraWsdlSchemaClasses(com.webmethods.portal.bizPolicy.IContext)' has been removed

com.webmethods.portal.bizPolicy.biz.impl.BizPolicy Method 'public org.apache.axis.description.ServiceDesc initializeServiceDesc(com.webmethods.portal.bizPolicy.IContext, org.apache.axis.description.ServiceDesc)' has been removed

com.webmethods.portal.bizPolicy.biz.impl.BizPolicy Method 'public org.apache.axis.handlers.soap.SOAPService initializeSOAPService(org.apache.axis.handlers.soap.SOAPService)' has been removed

com.webmethods.portal.bizPolicy.biz.impl.BizPolicy Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.access.GetAclView Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.access.ListSecurityRealmObjects Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.alias.CreateAlias Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.dir.GetTypedAttributes Method 'public java.lang.Class[] getExtraWsdlSchemaClasses(com.webmethods.portal.bizPolicy.IContext)' has been removed

com.webmethods.portal.bizPolicy.command.dir.GetTypedAttributes Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.impl.Command Method 'protected java.beans.PropertyDescriptor[] getClassPropertyDescriptors(java.lang.Class)' has been removed

com.webmethods.portal.bizPolicy.command.impl.Command Method 'protected void registerWebServiceMarshallingFactories(java.lang.Class, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.impl.Command Method 'public java.lang.Class[] getExtraWsdlSchemaClasses(com.webmethods.portal.bizPolicy.IContext)' has been removed

com.webmethods.portal.bizPolicy.command.impl.Command Method 'public org.apache.axis.description.ServiceDesc initializeServiceDesc(com.webmethods.portal.bizPolicy.IContext, org.apache.axis.description.ServiceDesc)' has been removed

com.webmethods.portal.bizPolicy.command.impl.Command Method 'public org.apache.axis.handlers.soap.SOAPService initializeSOAPService(org.apache.axis.handlers.soap.SOAPService)' has been removed

com.webmethods.portal.bizPolicy.command.impl.Command Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.impl.WebServiceHelper Class com.webmethods.portal.bizPolicy.command.impl.WebServiceHelper removed

com.webmethods.portal.bizPolicy.command.meta.GetSelectedList Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.meta.ListChildrenFiltered Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.meta.ListContainers Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.meta.ListNotes Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.meta.schedule.ListSchedulesCommand Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.page.ModifyPage2 Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.socialkeyword.GetKeyword Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.socialkeyword.ListKeywords Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.sql.ListDataSources Method 'public java.lang.Class[] getExtraWsdlSchemaClasses(com.webmethods.portal.bizPolicy.IContext)' has been removed

com.webmethods.portal.bizPolicy.command.sql.ListDataSources Method 'public void

initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

 com.webmethods.portal.bizPolicy.command.system.ImportFiles Class com.webmethods.portal.bizPolicy.command.system.ImportFiles removed

 com.webmethods.portal.bizPolicy.command.system.ImportFilesBean Class com.webmethods.portal.bizPolicy.command.system.ImportFilesBean removed

 com.webmethods.portal.bizPolicy.command.system.Ping Method 'public java.lang.Class[] getExtraWsdlSchemaClasses(com.webmethods.portal.bizPolicy.IContext)' has been removed

 com.webmethods.portal.bizPolicy.command.system.Ping Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

 com.webmethods.portal.bizPolicy.command.system.RuntimeTimeStatus Method 'public java.lang.Class[] getExtraWsdlSchemaClasses(com.webmethods.portal.bizPolicy.IContext)' has been removed

 com.webmethods.portal.bizPolicy.command.system.RuntimeTimeStatus Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

 com.webmethods.portal.bizPolicy.command.task.BaseTaskCommand Method 'protected java.beans.PropertyDescriptor[] getClassPropertyDescriptors(java.lang.Class)' has been removed

 com.webmethods.portal.bizPolicy.command.task.GetTaskAudit Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

 com.webmethods.portal.bizPolicy.command.task.GetTaskAuditPaginated Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

 com.webmethods.portal.bizPolicy.command.version.ListVersionsCommand Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

 com.webmethods.portal.bizPolicy.command.webspace.ListWebSpaces Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

 com.webmethods.portal.bizPolicy.impl.ContextProvider Method 'protected com.webmethods.portal.bizPolicy.IContext getContextBySessionId(java.lang.String)' has been removed

 com.webmethods.portal.framework.dispatch.handlers.webservices.GetWSDL Class com.webmethods.portal.framework.dispatch.handlers.webservices.GetWSDL removed

 com.webmethods.portal.framework.propertyeditor.command.ListPropertyEditors Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.webservices.IWebService Method 'public java.lang.Class[] getExtraWsdlSchemaClasses(com.webmethods.portal.bizPolicy.IContext)' has been removed

com.webmethods.portal.webservices.IWebService Method 'public org.apache.axis.description.ServiceDesc initializeServiceDesc(com.webmethods.portal.bizPolicy.IContext, org.apache.axis.description.ServiceDesc)' has been removed

com.webmethods.portal.webservices.IWebService Method 'public org.apache.axis.handlers.soap.SOAPService initializeSOAPService(org.apache.axis.handlers.soap.SOAPService)' has been removed

com.webmethods.portal.webservices.IWebService Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.webservices.SOAPMonitorData Method 'public java.lang.String getSoap()' has been removed

com.webmethods.portal.webservices.SOAPMonitorData Method 'public void setSoap(java.lang.String)' has been removed

com.webmethods.portal.webservices.configuration.MwsEngineConfigurationFactoryServlet Class com.webmethods.portal.webservices.configuration.MwsEngineConfigurationFactoryServlet removed

com.webmethods.portal.webservices.configuration.MwsFileProvider Class com.webmethods.portal.webservices.configuration.MwsFileProvider removed

com.webmethods.portal.webservices.configuration.UpgradeAxisConfiguration Class com.webmethods.portal.webservices.configuration.UpgradeAxisConfiguration removed

com.webmethods.portal.webservices.encoding.AliasValueSerializer Class com.webmethods.portal.webservices.encoding.AliasValueSerializer removed

com.webmethods.portal.webservices.encoding.AliasValueSerializerFactory Class com.webmethods.portal.webservices.encoding.AliasValueSerializerFactory removed

com.webmethods.portal.webservices.encoding.BeanPropertiesTypeDesc Class com.webmethods.portal.webservices.encoding.BeanPropertiesTypeDesc removed

com.webmethods.portal.webservices.encoding.CertificateSerializer Class com.webmethods.portal.webservices.encoding.CertificateSerializer removed

com.webmethods.portal.webservices.encoding.CertificateSerializerFactory Class com.webmethods.portal.webservices.encoding.CertificateSerializerFactory removed

com.webmethods.portal.webservices.encoding.CharacterSerializer Class com.webmethods.portal.webservices.encoding.CharacterSerializer removed

com.webmethods.portal.webservices.encoding.CharacterSerializerFactory Class com.webmethods.portal.webservices.encoding.CharacterSerializerFactory removed

com.webmethods.portal.webservices.encoding.ConnectionInfoSerializer Class

com.webmethods.portal.webservices.encoding.ConnectionInfoSerializer removed

 com.webmethods.portal.webservices.encoding.ConnectionInfoSerializerFactory Class
com.webmethods.portal.webservices.encoding.ConnectionInfoSerializerFactory removed

 com.webmethods.portal.webservices.encoding.DifferenceMapSerializer Class
com.webmethods.portal.webservices.encoding.DifferenceMapSerializer removed

 com.webmethods.portal.webservices.encoding.DifferenceMapSerializerFactory Class
com.webmethods.portal.webservices.encoding.DifferenceMapSerializerFactory removed

 com.webmethods.portal.webservices.encoding.DirServiceSerializer Class
com.webmethods.portal.webservices.encoding.DirServiceSerializer removed

 com.webmethods.portal.webservices.encoding.DirServiceSerializerFactory Class
com.webmethods.portal.webservices.encoding.DirServiceSerializerFactory removed

 com.webmethods.portal.webservices.encoding.IDataDeserializer Class
com.webmethods.portal.webservices.encoding.IDataDeserializer removed

 com.webmethods.portal.webservices.encoding.IDataDeserializerFactory Class
com.webmethods.portal.webservices.encoding.IDataDeserializerFactory removed

 com.webmethods.portal.webservices.encoding.IOutOnly Class
com.webmethods.portal.webservices.encoding.IOutOnly removed

 com.webmethods.portal.webservices.encoding.ISoapComplexTypeBean Class
com.webmethods.portal.webservices.encoding.ISoapComplexTypeBean removed

 com.webmethods.portal.webservices.encoding.InterfaceAsBeanSerializer Class
com.webmethods.portal.webservices.encoding.InterfaceAsBeanSerializer removed

 com.webmethods.portal.webservices.encoding.InterfaceAsBeanSerializerFactory Class
com.webmethods.portal.webservices.encoding.InterfaceAsBeanSerializerFactory removed

 com.webmethods.portal.webservices.encoding.ListViewSerializer Class
com.webmethods.portal.webservices.encoding.ListViewSerializer removed

 com.webmethods.portal.webservices.encoding.ListViewSerializerFactory Class
com.webmethods.portal.webservices.encoding.ListViewSerializerFactory removed

 com.webmethods.portal.webservices.encoding.LocaleDeserializer Class
com.webmethods.portal.webservices.encoding.LocaleDeserializer removed

 com.webmethods.portal.webservices.encoding.LocaleDeserializerFactory Class
com.webmethods.portal.webservices.encoding.LocaleDeserializerFactory removed

 com.webmethods.portal.webservices.encoding.LocaleSerializer Class
com.webmethods.portal.webservices.encoding.LocaleSerializer removed

 com.webmethods.portal.webservices.encoding.LocaleSerializerFactory Class
com.webmethods.portal.webservices.encoding.LocaleSerializerFactory removed

 com.webmethods.portal.webservices.encoding.PageDataDeserializer Class

com.webmethods.portal.webservices.encoding.PageDataDeserializer removed

com.webmethods.portal.webservices.encoding.PageDataDeserializerFactory Class
com.webmethods.portal.webservices.encoding.PageDataDeserializerFactory removed

com.webmethods.portal.webservices.encoding.PageDataSerializer Class
com.webmethods.portal.webservices.encoding.PageDataSerializer removed

com.webmethods.portal.webservices.encoding.PageDataSerializerFactory Class
com.webmethods.portal.webservices.encoding.PageDataSerializerFactory removed

com.webmethods.portal.webservices.encoding.PagingBeanDeserializer Class
com.webmethods.portal.webservices.encoding.PagingBeanDeserializer removed

com.webmethods.portal.webservices.encoding.PagingBeanDeserializerFactory Class
com.webmethods.portal.webservices.encoding.PagingBeanDeserializerFactory removed

com.webmethods.portal.webservices.encoding.PagingBeanSerializer Class
com.webmethods.portal.webservices.encoding.PagingBeanSerializer removed

com.webmethods.portal.webservices.encoding.PagingBeanSerializerFactory Class
com.webmethods.portal.webservices.encoding.PagingBeanSerializerFactory removed

com.webmethods.portal.webservices.encoding.PortalFileBeanDeserializer Class
com.webmethods.portal.webservices.encoding.PortalFileBeanDeserializer removed

com.webmethods.portal.webservices.encoding.PortalFileBeanDeserializerFactory Class
com.webmethods.portal.webservices.encoding.PortalFileBeanDeserializerFactory removed

com.webmethods.portal.webservices.encoding.PortalFileBeanSerializer Class
com.webmethods.portal.webservices.encoding.PortalFileBeanSerializer removed

com.webmethods.portal.webservices.encoding.PortalFileBeanSerializerFactory Class
com.webmethods.portal.webservices.encoding.PortalFileBeanSerializerFactory removed

com.webmethods.portal.webservices.encoding.RightSetDeserializer Class
com.webmethods.portal.webservices.encoding.RightSetDeserializer removed

com.webmethods.portal.webservices.encoding.RightSetDeserializerFactory Class
com.webmethods.portal.webservices.encoding.RightSetDeserializerFactory removed

com.webmethods.portal.webservices.encoding.RightSetSerializer Class
com.webmethods.portal.webservices.encoding.RightSetSerializer removed

com.webmethods.portal.webservices.encoding.RightSetSerializerFactory Class
com.webmethods.portal.webservices.encoding.RightSetSerializerFactory removed

com.webmethods.portal.webservices.encoding.SelectedListViewSerializer Class
com.webmethods.portal.webservices.encoding.SelectedListViewSerializer removed

com.webmethods.portal.webservices.encoding.SelectedListViewSerializerFactory Class
com.webmethods.portal.webservices.encoding.SelectedListViewSerializerFactory removed

com.webmethods.portal.webservices.encoding.ThingIDListSerializer Class

com.webmethods.portal.webservices.encoding.ThingIDListSerializer removed

 com.webmethods.portal.webservices.encoding.ThingIDListSerializerFactory Class
com.webmethods.portal.webservices.encoding.ThingIDListSerializerFactory removed

 com.webmethods.portal.webservices.encoding.ThingNameAtomSerializer Class
com.webmethods.portal.webservices.encoding.ThingNameAtomSerializer removed

 com.webmethods.portal.webservices.encoding.ThingNameAtomSerializerFactory Class
com.webmethods.portal.webservices.encoding.ThingNameAtomSerializerFactory removed

 com.webmethods.portal.webservices.encoding.URIDeserializer Class
com.webmethods.portal.webservices.encoding.URIDeserializer removed

 com.webmethods.portal.webservices.encoding.URIDeserializerFactory Class
com.webmethods.portal.webservices.encoding.URIDeserializerFactory removed

 com.webmethods.portal.webservices.encoding.URISerializer Class
com.webmethods.portal.webservices.encoding.URISerializer removed

 com.webmethods.portal.webservices.encoding.URISerializerFactory Class
com.webmethods.portal.webservices.encoding.URISerializerFactory removed

 com.webmethods.portal.webservices.encoding.ViewProperty Class
com.webmethods.portal.webservices.encoding.ViewProperty removed

 com.webmethods.portal.webservices.encoding.ViewSerializer Class
com.webmethods.portal.webservices.encoding.ViewSerializer removed

 com.webmethods.portal.webservices.encoding.ViewSerializerFactory Class
com.webmethods.portal.webservices.encoding.ViewSerializerFactory removed

 com.webmethods.portal.webservices.handlers.CommandHandler Class
com.webmethods.portal.webservices.handlers.CommandHandler removed

 com.webmethods.portal.webservices.handlers.CommandProvider Class
com.webmethods.portal.webservices.handlers.CommandProvider removed

 com.webmethods.portal.webservices.handlers.SOAPMonitorHandler Class
com.webmethods.portal.webservices.handlers.SOAPMonitorHandler removed

 com.webmethods.portal.webservices.servlet.PortalAxisServlet Class
com.webmethods.portal.webservices.servlet.PortalAxisServlet removed

Changed API	Description
com.webmethods.portal.bizPolicy.command.dir.DeletePrincipal In method 'protected void fireEvents(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.mech.dir.IDirServiceMechanics, com.webmethods.portal.system.IURI, com.webmethods.portal.service.meta2.thing.IThingID, com.webmethods.portal.service.meta2.thing.IThingID, com.webmethods.portal.service.dir.IDirPrincipalList,	

com.webmethods.portal.service.dir.IDirPrincipalList)' the number of arguments has changed

 com.webmethods.portal.bizPolicy.command.dir.ModifyPrincipal In method 'protected void fireEvents(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.mech.dir.IPrincipalAttributeMechanics, com.webmethods.portal.system.IURI, java.lang.String, java.lang.Object, com.webmethods.portal.service.meta2.thing.IThingID)' the number of arguments has changed

 com.webmethods.portal.bizPolicy.command.dir.ModifyPrincipalEx In method 'protected void fireEvents(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.mech.dir.IPrincipalAttributeMechanics, com.webmethods.portal.system.IURI, java.util.Map, com.webmethods.portal.service.meta2.thing.IThingID)' the number of arguments has changed

 com.webmethods.portal.bizPolicy.command.impl.rs.CommandResource In method 'public javax.ws.rs.core.Response invokeCommandFromForm(javax.servlet.http.HttpServletRequest, javax.servlet.http.HttpServletResponse, java.lang.String)' the number of arguments has changed

Release 10.1

Added API	Description
com.webmethods.portal.bizPolicy.biz.dir.IDirSystemBizPolicy: Method 'public com.webmethods.portal.service.dir.IDirUser authenticateUser(com.webmethods.portal.bizPolicy.IContext, java.lang.String, java.lang.String, boolean)' has been added to an interface	
com.webmethods.portal.framework.IAuthManager: Method 'public com.webmethods.portal.framework.auth.IAuthInfo createAuthInfo()' has been added to an interface	
com.webmethods.portal.service.task.ITaskDistributionService: Method 'public com.webmethods.portal.service.task.ITaskListIterator searchAllTasks(com.webmethods.portal.service.task.TaskSearchQuery, java.lang.Boolean)' has been added to an interface	
com.webmethods.portal.service.task.ITaskLockingService: Method 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long)' has been added to an interface	
com.webmethods.portal.service.task.ITaskLockingService: Method 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long, boolean)' has been added to an interface	
com.webmethods.portal.service.task.ITaskLockingService: Method 'public com.webmethods.portal.system.lock.IClusterLock getLock(com.webmethods.portal.system.IURI)' has been added to an interface	
com.webmethods.portal.system.IURIResolver: Method 'public com.webmethods.portal.system.IURI acquireURI(java.lang.String, boolean)' has been added to an interface	
com.webmethods.portal.system.init.IPhaseProvider: Method 'public void preInit(java.lang.String)' has been added to an interface	
com.webmethods.portal.webservices.IWebService: Method 'public java.lang.Class[] getExtraWsdlSchemaClasses(com.webmethods.portal.bizPolicy.IContext)' has been added to an interface	

Removed API	Replacement, if any
com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended: Removed com.webmethods.caf.faces.data.task.ITaskConstants from the set of implemented interfaces	
com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended: Removed com.webmethods.caf.faces.data.task.ITaskSearchQuery from the set of implemented interfaces	
com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended: Removed com.webmethods.caf.faces.data.task.ITaskSearchQueryBase from the set of implemented interfaces	
com.webmethods.caf.faces.data.task.impl.QueryAggregationInfo: Removed com.webmethods.caf.faces.data.task.IQueryAggregationInfo from the set of implemented interfaces	
com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider$HpstraInboxSearchQuery: Removed com.webmethods.caf.faces.data.task.ITaskConstants from the set of implemented interfaces	
com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider$HpstraInboxSearchQuery: Removed com.webmethods.caf.faces.data.task.ITaskSearchQuery from the set of implemented interfaces	
com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider$HpstraInboxSearchQuery: Removed com.webmethods.caf.faces.data.task.ITaskSearchQueryBase from the set of implemented interfaces	
com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider$HpstraInboxSearchQuery: Removed com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended from the set of implemented interfaces	
com.webmethods.caf.faces.data.task.impl.TaskInboxIndexedSearchContentProvider$InboxSearchQuery: Removed com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended from the set of implemented interfaces	
com.webmethods.caf.faces.data.task.impl.TaskInboxSearchContentProvider$InboxSearchQuery: Removed com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended from the set of implemented interfaces	
com.webmethods.caf.faces.data.task.impl.TaskIndexedSearchContentProvider$TaskData: Removed com.webmethods.caf.faces.data.task.ITaskData from the set of implemented interfaces	
com.webmethods.caf.faces.data.task.impl.TaskSearchQuery: Removed com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended from the set of implemented interfaces	
com.webmethods.caf.faces.data.task.impl.TaskSearchQueryExtended: Removed com.webmethods.caf.faces.data.task.ITaskConstants from the set of implemented interfaces	

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryExtended: Removed
com.webmethods.caf.faces.data.task.ITaskSearchQuery from the set of implemented interfaces

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryExtended: Removed
com.webmethods.caf.faces.data.task.ITaskSearchQueryBase from the set of implemented interfaces

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryExtended: Removed
com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended from the set of implemented
interfaces

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryV2: Removed
com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended from the set of implemented
interfaces

com.webmethods.portal.mech.task.impl.TaskQuery: Removed
com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended from the set of implemented
interfaces

com.webmethods.portal.service.sql.core.JNDIDataSourceFactory: Removed
com.webmethods.portal.system.init.IInitializable from the set of implemented interfaces

com.webmethods.portal.socialbpm.charts.SocialBPMSearchQuery: Removed
com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended from the set of implemented
interfaces

com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider$HpstraInboxSearch
Query: Removed com.webmethods.caf.faces.data.task.impl.TaskSearchQuery from the list of
superclasses

com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider$HpstraInboxSearch
Query: Removed com.webmethods.caf.faces.data.task.impl.TaskSearchQueryV2 from the list of
superclasses

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryExtended: Removed
com.webmethods.caf.faces.data.task.impl.TaskSearchQuery from the list of superclasses

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryExtended: Removed
com.webmethods.caf.faces.data.task.impl.TaskSearchQueryV2 from the list of superclasses

com.webmethods.caf.mobile.notify.impl.PushNotification: Removed
com.webmethods.portal.system.impl.BaseComponent from the list of superclasses

com.webmethods.caf.mobile.notify.impl.PushNotification$PushNotificationCommandBean: Removed
com.webmethods.rtl.util.obj.MapPropertyBag from the list of superclasses

com.webmethods.portal.bizPolicy.command.system.RuntimeStatusBean: Removed
com.webmethods.rtl.util.obj.MapPropertyBag from the list of superclasses

com.webmethods.portal.bizPolicy.command.system.RuntimeTimeStatus: Removed
com.webmethods.portal.system.impl.BaseComponent from the list of superclasses

com.webmethods.rtl.locator.ClassLocator: Removed com.webmethods.rtl.locator.FileLocator from the
list of superclasses

com.webmethods.rtl.util.SystemPaths$UserPathLocator: Removed
com.webmethods.rtl.locator.FileLocator from the list of superclasses

com.webmethods.caf.mobile.notify.task.APNSCleanUpThread: Removed field expiredID

com.webmethods.portal.service.portlet.impl.PortletProvider: Removed field
portletProviderFactoryServiceReg

com.webmethods.portal.service.task.impl.TaskLockingService: Removed field
TASK_LOCK_MAX_TIME

com.webmethods.portal.service.task.impl.TaskLockingService: Removed field
TASK_LOCK_MAX_WAIT_TIME

com.webmethods.portal.service.task.impl.TaskLockingService: Removed field dbOffsetLastCalced

com.webmethods.portal.service.task.impl.TaskLockingService: Removed field dbTimeOffsetMs

com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended: Method 'public
com.webmethods.caf.faces.data.task.impl.TaskSearchQueryTerm findTerm(java.lang.String,
java.lang.String)' has been removed

com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended: Method 'public
com.webmethods.caf.faces.data.task.impl.TaskSearchQueryTerm findTerm(java.lang.String)' has been
removed

com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended: Method 'public
com.webmethods.caf.faces.data.task.IQueryAggregationInfo getQueryAggregationInfo()' has been
removed

com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended: Method 'public
com.webmethods.caf.faces.data.task.impl.TaskSearchQueryTerm[] getTerms()' has been removed

com.webmethods.caf.mobile.notify.impl.MobileNotificationProvider: Method 'protected
java.util.Collection loadConfig(com.webmethods.portal.system.IComponentData)' has been removed

com.webmethods.caf.script.servlet.ScriptServlet: Method 'protected void
includeBCScript(java.lang.String, java.util.Locale, java.io.Writer, boolean)' has been removed

com.webmethods.caf.script.servlet.ScriptServlet: Method 'protected void stripBCScript(java.io.Reader,
java.io.Writer)' has been removed

com.webmethods.caf.script.util.JavascriptStripper: Method 'protected boolean is_sep_for_bc(int)' has been removed

com.webmethods.caf.script.util.JavascriptStripper: Method 'protected boolean is_unambiguous_sep_for_bc(int)' has been removed

com.webmethods.caf.script.util.JavascriptStripper: Method 'public void stripBCScript(java.io.Reader, java.io.Writer)' has been removed

com.webmethods.caf.script.util.JavascriptStripper: Method 'protected int strip_c_comment_for_bc(java.io.Reader, java.io.Writer)' has been removed

com.webmethods.portal.framework.auth.AuthInfo: Method 'public void copy(com.webmethods.portal.framework.auth.AuthInfo)' has been removed

com.webmethods.portal.framework.presentation.PresentationData: Method 'public com.webmethods.portal.framework.presentation.PresentationData init(java.lang.Object, int, java.util.HashMap)' has been removed

com.webmethods.portal.service.sql.core.JNDIDataSourceFactory: Method 'public void init(com.webmethods.portal.system.IComponentData, java.lang.String)' has been removed

com.webmethods.portal.service.sql.core.JNDIDataSourceFactory: Method 'public void shutdown()' has been removed

com.webmethods.pushNotification.apns.connection.pool.APNSConnectionPool: Method 'public void initialize(com.webmethods.pushNotification.apns.connection.pool.APNSConnectionPoolManager, java.util.Map)' has been removed

com.webmethods.rtl.util.RuntimeUtil: Method 'public javax.servlet.ServletContext getServletContext(java.lang.String)' has been removed

com.webmethods.rtl.util.RuntimeUtil: Method 'public org.eclipse.jetty.webapp.WebAppContext getWebAppContext(java.lang.String)' has been removed

com.webmethods.rtl.util.RuntimeUtil: Method 'public void refreshBundle(org.osgi.framework.Bundle)' has been removed

com.webmethods.rtl.util.RuntimeUtil: Method 'public void refreshRemovalPendingBundles()' has been removed

com.webmethods.rtl.util.RuntimeUtil: Method 'public void startBundle(org.osgi.framework.Bundle)' has been removed

com.webmethods.caf.faces.data.task.AggregationType: Class com.webmethods.caf.faces.data.task.AggregationType removed

com.webmethods.caf.faces.data.task.IQueryAggregationInfo: Class
com.webmethods.caf.faces.data.task.IQueryAggregationInfo removed

com.webmethods.caf.faces.data.task.IndexEngineType: Class
com.webmethods.caf.faces.data.task.IndexEngineType removed

com.webmethods.portal.bizPolicy.command.task.rs.MWSCustomDispatchProvider: Class
com.webmethods.portal.bizPolicy.command.task.rs.MWSCustomDispatchProvider removed

com.webmethods.portal.bizPolicy.command.task.rs.MWSRequestDispatcher: Class
com.webmethods.portal.bizPolicy.command.task.rs.MWSRequestDispatcher removed

com.webmethods.portal.bizPolicy.command.task.rs.RestApplication: Class
com.webmethods.portal.bizPolicy.command.task.rs.RestApplication removed

com.webmethods.portal.bizPolicy.command.task.rs.RestApplication$RestPingInfo: Class
com.webmethods.portal.bizPolicy.command.task.rs.RestApplication$RestPingInfo removed

com.webmethods.portal.bizPolicy.command.task.rs.RestApplication$RestResource: Class
com.webmethods.portal.bizPolicy.command.task.rs.RestApplication$RestResource removed

com.webmethods.portal.framework.presentation.handlers.dcjsp.FlexiblePoolBoy: Class
com.webmethods.portal.framework.presentation.handlers.dcjsp.FlexiblePoolBoy removed

com.webmethods.rtl.locator.BundleLocator: Class com.webmethods.rtl.locator.BundleLocator removed

com.webmethods.rtl.locator.ClusterConfigLocator: Class
com.webmethods.rtl.locator.ClusterConfigLocator removed

com.webmethods.rtl.locator.ConfigLocator: Class com.webmethods.rtl.locator.ConfigLocator removed

com.webmethods.rtl.locator.FileLocator: Class com.webmethods.rtl.locator.FileLocator removed

com.webmethods.rtl.locator.NullLocator: Class com.webmethods.rtl.locator.NullLocator removed

com.webmethods.rtl.locator.StreamLocatorFactory: Class
com.webmethods.rtl.locator.StreamLocatorFactory removed

com.webmethods.rtl.locator.WebResourceLocator: Class
com.webmethods.rtl.locator.WebResourceLocator removed

Release 10.0

Added API	Description

com.webmethods.caf.faces.data.task.impl.TaskInboxIndexedSearchContentProvider$InboxSearchQuer
y: Added com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended to the set of implemented
interfaces

com.webmethods.caf.faces.data.task.impl.TaskInboxSearchContentProvider$InboxSearchQuery:
Added com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended to the set of implemented
interfaces

com.webmethods.caf.faces.data.task.impl.TaskSearchQuery: Added
com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended to the set of implemented interfaces

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryV2: Added
com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended to the set of implemented interfaces

com.webmethods.caf.mobile.notify.impl.MobileNotificationProvider: Added
com.webmethods.portal.event.modify.IUpdateEvent$ISynchronousListener to the set of implemented
interfaces

com.webmethods.caf.mobile.notify.task.NotificationSender: Added java.util.concurrent.Callable to the
set of implemented interfaces

com.webmethods.portal.mech.task.impl.TaskQuery: Added
com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll: Added
com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchAllByTagCount: Added
com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchAllByTagPaged: Added
com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchAllCount: Added
com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchAllGroupedCount: Added
com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchAllPaged: Added
com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxes: Added
com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesByTagCount: Added
com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesByTagPaged: Added
com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesCount: Added com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesGroupedCount: Added com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesPaged: Added com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.socialbpm.charts.SocialBPMSearchQuery: Added com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended to the set of implemented interfaces

com.webmethods.caf.faces.render.html.table.MoveRowDownIconRenderer: Added com.webmethods.caf.faces.render.html.table.MoveRowLinkRenderer to the list of superclasses

com.webmethods.caf.faces.render.html.table.MoveRowDownLinkRenderer: Added com.webmethods.caf.faces.render.html.table.MoveRowLinkRenderer to the list of superclasses

com.webmethods.caf.faces.render.html.table.MoveRowUpIconRenderer: Added com.webmethods.caf.faces.render.html.table.MoveRowLinkRenderer to the list of superclasses

com.webmethods.caf.faces.render.html.table.MoveRowUpLinkRenderer: Added com.webmethods.caf.faces.render.html.table.MoveRowLinkRenderer to the list of superclasses

com.webmethods.portal.bizPolicy.biz.task.impl.TaskDBOHelper: Added com.webmethods.portal.bizPolicy.biz.task.impl.TaskIndexHelper to the list of superclasses

com.webmethods.caf.common.deployer.MwsDeployerConstants: Added public field PROJ_PROP_EXPORT_PAGE_DEPTH

com.webmethods.caf.mobile.notify.IMobileNotificationConstants: Added public field IOS_CERT

com.webmethods.caf.mobile.notify.IMobileNotificationConstants: Added public field IOS_HOST_NAME

com.webmethods.caf.mobile.notify.IMobileNotificationConstants: Added public field IOS_HOST_PORT

com.webmethods.caf.mobile.notify.IMobileNotificationConstants: Added public field IOS_PASSWORD

com.webmethods.caf.mobile.notify.IMobileNotificationConstants: Added public field NOTIFIER_QUEUE_SIZE_THRESHOLD

com.webmethods.caf.mobile.notify.impl.MobileNotifierComponent: Added protected field m_connPoolProvider

com.webmethods.caf.mobile.notify.util.MobileNotifierUtil: Added public field IOS_JASON_PAYLOAD_TEMPLATE

com.webmethods.portal.bizPolicy.biz.task.ITaskDefinitionConstants: Added public field PROPERTY_HPSTRA_INDEXTABLEDIS

com.webmethods.portal.bizPolicy.biz.task.ITaskDefinitionConstants: Added public field

PROPERTY_HPSTRA_INDEX_JOB_STATUS

com.webmethods.portal.bizPolicy.biz.task.ITaskDefinitionConstants: Added public field PROPERTY_ISHPSTRAENABLED

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Added public field DEFAULT_JSON_DATE_FORMAT

com.webmethods.portal.service.bcgadget.IBCGadgetConstants: Added public field BC_GADGET_DEF_CONTAINER_NOT_FOUND_ERROR_MSG

com.webmethods.portal.service.dir.impl.DirServicePortletBean: Added public field ATTR_PREFIX_LENGTH

com.webmethods.portal.service.dir.impl.DirServicePortletBean: Added public field EDIT_ATTR_CURRPASSWORD

com.webmethods.portal.service.dir.impl.DirServicePortletBean: Added public field USERNAME

com.webmethods.portal.service.dir.impl.DirServicePortletBean: Added public field exceptionMessage

com.webmethods.portal.service.sql.runtime.base.TaskLockSetNew: Added public field TE_MAX_LAST_ACTIVE

com.webmethods.portal.service.task.impl.TaskDefinitionView: Added protected field m_taskDetailGadgetURIs

com.webmethods.caf.common.ObjectUtil: Method 'public void sortObjectList(java.util.List, java.lang.String, boolean)' has been added

com.webmethods.caf.faces.component.behavior.DragToMoveRowsBehavior: Method 'public boolean isPropagateEvents()' has been added

com.webmethods.caf.faces.component.behavior.DragToMoveRowsBehavior: Method 'public void setPropagateEvents(boolean)' has been added

com.webmethods.caf.faces.component.tree.AsyncTree: Method 'protected com.webmethods.caf.faces.data.ITableContentProvider getContentProvider(boolean)' has been added

com.webmethods.caf.faces.data.task.impl.TaskSearchQuery: Method 'public java.lang.String getSearchEngineType()' has been added

com.webmethods.caf.faces.data.task.impl.TaskSearchQuery: Method 'public void setSearchEngineType(java.lang.String)' has been added

com.webmethods.caf.mobile.notify.impl.MobileNotificationProvider: Method 'public void onSynchronousEvent(com.webmethods.portal.event.modify.IUpdateEvent)' has been added

com.webmethods.caf.mobile.notify.impl.MobileNotifierComponent: Method 'public com.webmethods.caf.mobile.notify.impl.AppleMessagingCloudConnectionDetails getM_iOSConnectionDetails()' has been added

com.webmethods.caf.mobile.notify.impl.MobileNotifierComponent: Method 'public java.util.concurrent.BlockingQueue getMessageQueue()' has been added

com.webmethods.caf.mobile.notify.impl.MobileNotifierComponent: Method 'public java.util.List scheduleCleanUpService(java.util.List)' has been added

com.webmethods.caf.mobile.notify.impl.MobileNotifierComponent: Method 'public void setMessageQueue(java.util.concurrent.BlockingQueue)' has been added

com.webmethods.caf.mobile.notify.impl.MobileNotifierComponent: Method 'public void stopExecutorService()' has been added

com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Method 'public java.lang.String createMessage(com.webmethods.portal.service.task.event.ITaskChangedEvent)' has been added

com.webmethods.caf.mobile.notify.task.Message: Method 'public java.util.List getAndroidSubscriptionList()' has been added

com.webmethods.caf.mobile.notify.task.Message: Method 'public java.util.List getiOSSubscriptionList()' has been added

com.webmethods.caf.mobile.notify.task.Message: Method 'public void setAndroidSubscriptionList(java.util.List)' has been added

com.webmethods.caf.mobile.notify.task.Message: Method 'public void setIOSSubscriptionList(java.util.List)' has been added

com.webmethods.caf.mobile.notify.task.NotificationSender: Method 'public java.util.List call()' has been added

com.webmethods.caf.mobile.notify.task.NotificationSender: Method 'public java.lang.Object call()' has been added

com.webmethods.caf.mobile.notify.task.NotificationSender: Method 'public byte[] convertPayloadtoUTF8Bytes(java.lang.String)' has been added

com.webmethods.caf.mobile.notify.task.NotificationSender: Method 'public byte[] decodeHex(java.lang.String)' has been added

com.webmethods.caf.mobile.notify.task.NotificationSender: Method 'public byte[] formAPNSMessage(byte, byte[], byte[])' has been added

com.webmethods.caf.mobile.notify.util.MobileNotifierUtil: Method 'public java.lang.String generateIOSPayload(java.util.List, java.lang.String, java.lang.String)' has been added

com.webmethods.caf.script.servlet.ScriptServlet: Method 'protected void includeBCScript(java.lang.String, java.util.Locale, java.io.Writer, boolean)' has been added

com.webmethods.caf.script.servlet.ScriptServlet: Method 'protected void stripBCScript(java.io.Reader, java.io.Writer)' has been added

com.webmethods.caf.script.util.JavascriptStripper: Method 'protected boolean is_sep_for_bc(int)' has been added

com.webmethods.caf.script.util.JavascriptStripper: Method 'protected boolean is_unambiguous_sep_for_bc(int)' has been added

com.webmethods.caf.script.util.JavascriptStripper: Method 'public void stripBCScript(java.io.Reader, java.io.Writer)' has been added

com.webmethods.caf.script.util.JavascriptStripper: Method 'protected int strip_c_comment_for_bc(java.io.Reader, java.io.Writer)' has been added

com.webmethods.portal.bizPolicy.biz.task.impl.TaskDBOHelper: Method 'public com.webmethods.portal.service.meta2.dbo.HpstraIndexTable createHpstraIndexTableFromXml(java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.task.rs.TaskResource: Method 'public void convertJSONToJavaObj(java.util.Map, java.lang.Class)' has been added

com.webmethods.portal.framework.presentation.handlers.Nbsp: Method 'public java.lang.Object lookup(java.util.Map, java.lang.String, boolean)' has been added

com.webmethods.portal.service.dir.impl.DirPrincipalListView: Method 'public java.util.Map getExceptions()' has been added

com.webmethods.portal.service.dir.impl.DirPrincipalListView: Method 'public void setExceptions(java.util.Map)' has been added

com.webmethods.portal.service.dir.impl.DirPrincipalProvider: Method 'protected void populateGroupMembership(com.webmethods.portal.service.dir.IDirPrincipal, java.util.Set, java.util.Map)' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean: Method 'protected void EditPrincipalEx()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean: Method 'public void EditUserEx()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean: Method 'public boolean isAuthenticated(java.lang.String, java.lang.String)' has been added

com.webmethods.portal.service.sql.runtime.base.TaskLockSetNew: Method 'protected java.lang.String getConditionalInsertStatement()' has been added

com.webmethods.portal.service.task.impl.TaskDefinitionView: Method 'public com.webmethods.portal.service.meta2.dbo.HpstraIndexTable getHpstraIndexTable()' has been added

com.webmethods.portal.service.task.impl.TaskDefinitionView: Method 'public java.lang.String getTaskDetailGadgetURIs()' has been added

com.webmethods.portal.service.task.impl.TaskDefinitionView: Method 'public boolean isHpstraEnabled()' has been added

com.webmethods.portal.system.cluster.impl.ClusterProvider: Method 'public void reloadClusterServers()' has been added

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Method 'protected void addContextLocale(org.eclipse.jetty.server.session.AbstractSession)' has been added

com.webmethods.rtl.event.DeliveryService: Method 'public boolean isConfigLoaded()' has been added

com.webmethods.rtl.msg.jms.JMSDestination$LiveStatistics$NameComparator: Method 'public int compare(com.webmethods.rtl.msg.jms.JMSDestination$LiveStatistics, com.webmethods.rtl.msg.jms.JMSDestination$LiveStatistics)' has been added

com.webmethods.rtl.msg.jms.JMSProvider: Method 'protected boolean isMaintenanceMode()' has been added

com.webmethods.rtl.script.nbsp.NBSPage: Method 'public java.lang.Object get(java.lang.String, boolean)' has been added

com.webmethods.rtl.script.nbsp.NBSPage: Method 'public java.lang.String getString(java.lang.String, java.lang.String, boolean)' has been added

com.webmethods.rtl.script.nbsp.PooledNBSPage: Method 'public java.lang.Object get(java.lang.String, boolean)' has been added

com.webmethods.rtl.script.nbsp.PooledNBSPage: Method 'public java.lang.Object get(java.lang.String, java.lang.Class, java.lang.Object, boolean)' has been added

com.webmethods.rtl.script.nbsp.PooledNBSPage: Method 'public java.lang.String getString(java.lang.String, java.lang.String, boolean)' has been added

com.webmethods.caf.mobile.notify.IMobileNotifierComponent: Method 'public com.webmethods.caf.mobile.notify.impl.AppleMessagingCloudConnectionDetails getM_iOSConnectionDetails()' has been added to an interface

com.webmethods.caf.mobile.notify.IMobileNotifierComponent: Method 'public java.util.concurrent.BlockingQueue getMessageQueue()' has been added to an interface

com.webmethods.caf.mobile.notify.IMobileNotifierComponent: Method 'public java.util.List scheduleCleanUpService(java.util.List)' has been added to an interface

com.webmethods.caf.mobile.notify.IMobileNotifierComponent: Method 'public void setMessageQueue(java.util.concurrent.BlockingQueue)' has been added to an interface

com.webmethods.caf.mobile.notify.IMobileNotifierComponent: Method 'public void stopExecutorService()' has been added to an interface

com.webmethods.common.search.ISliceableSearchContext: Method 'public java.util.Map getExceptions()' has been added to an interface

com.webmethods.portal.mech.task.ITaskMechanics: Method 'public void fireTaskReindexStopEvent(com.webmethods.portal.service.task.ITaskDefinition, java.lang.String)' has been added to an interface

com.webmethods.portal.service.dir.IDirPrincipalList: Method 'public java.util.Map getExceptions()' has been added to an interface

com.webmethods.portal.service.task.ITaskDefinition: Method 'public com.webmethods.portal.service.meta2.dbo.HpstraIndexTable getHpstraIndexTable()' has been added to an interface

com.webmethods.portal.service.task.ITaskDefinition: Method 'public java.lang.String

getTaskDetailGadgetURIs()' has been added to an interface

com.webmethods.portal.service.task.ITaskDefinition: Method 'public boolean isHpstraEnabled()' has been added to an interface

com.webmethods.portal.service.task.ITaskDistributionService: Method 'public java.util.List getPrincipalActors(com.webmethods.portal.system.IURI[], boolean)' has been added to an interface

com.webmethods.portal.service.task.event.ITaskReindexStopEvent: Method 'public java.lang.String getIndexEngineType()' has been added to an interface

com.webmethods.portal.system.cluster.IClusterProvider: Method 'public void reloadClusterServers()' has been added to an interface

com.webmethods.rtl.script.nbsp.INBSPRuntime: Method 'public java.lang.Object lookup(java.util.Map, java.lang.String, boolean)' has been added to an interface

com.webmethods.rtl.script.nbsp.INBSPage: Method 'public java.lang.Object get(java.lang.String, boolean)' has been added to an interface

com.webmethods.rtl.script.nbsp.INBSPage: Method 'public java.lang.String getString(java.lang.String, java.lang.String, boolean)' has been added to an interface

com.softwareag.mws.screens.BaseScreenClass: Class com.softwareag.mws.screens.BaseScreenClass added

com.softwareag.mws.screens.Constants: Class com.softwareag.mws.screens.Constants added

com.softwareag.mws.screens.MWSLoginLogoutScreen: Class com.softwareag.mws.screens.MWSLoginLogoutScreen added

com.softwareag.mws.screens.applications.administration.systemwide.usermanagement.UsersScreen: Class com.softwareag.mws.screens.applications.administration.systemwide.usermanagement.UsersScreen added

com.webmethods.caf.faces.data.task.AggregationType: Class com.webmethods.caf.faces.data.task.AggregationType added

com.webmethods.caf.faces.data.task.IQueryAggregationInfo: Class com.webmethods.caf.faces.data.task.IQueryAggregationInfo added

com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended: Class com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended added

com.webmethods.caf.faces.data.task.IndexEngineType: Class com.webmethods.caf.faces.data.task.IndexEngineType added

com.webmethods.caf.faces.data.task.impl.QueryAggregationInfo: Class com.webmethods.caf.faces.data.task.impl.QueryAggregationInfo added

com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider: Class com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider added

com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider$HpstraInboxSearch
Query: Class
com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider$HpstraInboxSearch
Query added

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryExtended: Class
com.webmethods.caf.faces.data.task.impl.TaskSearchQueryExtended added

com.webmethods.caf.faces.render.html.table.MoveRowLinkRenderer: Class
com.webmethods.caf.faces.render.html.table.MoveRowLinkRenderer added

com.webmethods.caf.mobile.notify.impl.PushNotification: Class
com.webmethods.caf.mobile.notify.impl.PushNotification added

com.webmethods.caf.mobile.notify.impl.PushNotification$PushNotificationCommandBean: Class
com.webmethods.caf.mobile.notify.impl.PushNotification$PushNotificationCommandBean added

com.webmethods.caf.mobile.notify.impl.SubscriptionCleanUpEvent: Class
com.webmethods.caf.mobile.notify.impl.SubscriptionCleanUpEvent added

com.webmethods.caf.mobile.notify.impl.SubscriptionCleanUpHandler: Class
com.webmethods.caf.mobile.notify.impl.SubscriptionCleanUpHandler added

com.webmethods.caf.mobile.notify.task.APNSCleanUpThread: Class
com.webmethods.caf.mobile.notify.task.APNSCleanUpThread added

com.webmethods.portal.bizPolicy.biz.task.impl.TaskDBOHelper$DBIndexer: Class
com.webmethods.portal.bizPolicy.biz.task.impl.TaskDBOHelper$DBIndexer added

com.webmethods.portal.bizPolicy.biz.task.impl.TaskIndexHelper: Class
com.webmethods.portal.bizPolicy.biz.task.impl.TaskIndexHelper added

com.webmethods.portal.bizPolicy.biz.task.impl.TaskIndexHelper$Indexer: Class
com.webmethods.portal.bizPolicy.biz.task.impl.TaskIndexHelper$Indexer added

com.webmethods.portal.bizPolicy.command.system.RuntimeStatusBean: Class
com.webmethods.portal.bizPolicy.command.system.RuntimeStatusBean added

com.webmethods.portal.bizPolicy.command.system.RuntimeTimeStatus: Class
com.webmethods.portal.bizPolicy.command.system.RuntimeTimeStatus added

com.webmethods.portal.bizPolicy.command.system.RuntimeTimeStatus$StatusInfo: Class
com.webmethods.portal.bizPolicy.command.system.RuntimeTimeStatus$StatusInfo added

com.webmethods.portal.bizPolicy.command.task.rs.LayeredProductVerionResource: Class
com.webmethods.portal.bizPolicy.command.task.rs.LayeredProductVerionResource added

com.webmethods.portal.bizPolicy.command.task.rs.LayeredProductVerionResource$Product: Class
com.webmethods.portal.bizPolicy.command.task.rs.LayeredProductVerionResource$Product added

com.webmethods.portal.bizPolicy.command.task.rs.LayeredProductVerionResource$ProductHolder:
Class
com.webmethods.portal.bizPolicy.command.task.rs.LayeredProductVerionResource$ProductHolder

added

com.webmethods.portal.jms.um.QueueType: Class com.webmethods.portal.jms.um.QueueType added

com.webmethods.portal.service.meta2.dbo.HpstraIndexTable: Class com.webmethods.portal.service.meta2.dbo.HpstraIndexTable added

com.webmethods.portal.service.meta2.dbo.HpstraIndexTable$DisplayField: Class com.webmethods.portal.service.meta2.dbo.HpstraIndexTable$DisplayField added

com.webmethods.portal.service.sql.runtime.base.TaskPendingUpdatesCleanup: Class com.webmethods.portal.service.sql.runtime.base.TaskPendingUpdatesCleanup added

com.webmethods.portal.service.sql.runtime.db2.TaskLockSetNew: Class com.webmethods.portal.service.sql.runtime.db2.TaskLockSetNew added

com.webmethods.portal.service.sql.runtime.db2.UpdateThingCounter: Class com.webmethods.portal.service.sql.runtime.db2.UpdateThingCounter added

com.webmethods.portal.service.sql.runtime.mssql.ThingNewPar: Class com.webmethods.portal.service.sql.runtime.mssql.ThingNewPar added

com.webmethods.portal.service.sql.runtime.mssql.UpdateThingCounter: Class com.webmethods.portal.service.sql.runtime.mssql.UpdateThingCounter added

com.webmethods.portal.service.sql.runtime.mysql.UpdateThingCounter: Class com.webmethods.portal.service.sql.runtime.mysql.UpdateThingCounter added

com.webmethods.portal.service.sql.runtime.oracle.TaskLockSetNew: Class com.webmethods.portal.service.sql.runtime.oracle.TaskLockSetNew added

com.webmethods.portal.service.sql.runtime.oracle.UpdateThingCounter: Class com.webmethods.portal.service.sql.runtime.oracle.UpdateThingCounter added

com.webmethods.portal.service.task.ITaskIndexEngineConfiguration: Class com.webmethods.portal.service.task.ITaskIndexEngineConfiguration added

com.webmethods.portal.service.task.ITaskIndexManager: Class com.webmethods.portal.service.task.ITaskIndexManager added

com.webmethods.portal.service.task.ITaskInfoFieldConverters: Class com.webmethods.portal.service.task.ITaskInfoFieldConverters added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$AcceptedByListValueConverter: Class com.webmethods.portal.service.task.ITaskInfoFieldConverters$AcceptedByListValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$CurrentUserValueConverter: Class com.webmethods.portal.service.task.ITaskInfoFieldConverters$CurrentUserValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$DateValueConverter: Class com.webmethods.portal.service.task.ITaskInfoFieldConverters$DateValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$FieldValueConverter: Class com.webmethods.portal.service.task.ITaskInfoFieldConverters$FieldValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$PriorityValueConverter: Class
com.webmethods.portal.service.task.ITaskInfoFieldConverters$PriorityValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$StatusValueConverter: Class
com.webmethods.portal.service.task.ITaskInfoFieldConverters$StatusValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$TaskIDValueConverter: Class
com.webmethods.portal.service.task.ITaskInfoFieldConverters$TaskIDValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$TaskTypeIDValueConverter: Class
com.webmethods.portal.service.task.ITaskInfoFieldConverters$TaskTypeIDValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$URIValueConverter: Class
com.webmethods.portal.service.task.ITaskInfoFieldConverters$URIValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$UserValueConverter: Class
com.webmethods.portal.service.task.ITaskInfoFieldConverters$UserValueConverter added

com.webmethods.portal.service.task.SearchContext: Class
com.webmethods.portal.service.task.SearchContext added

com.webmethods.portal.service.task.SearchKey: Class com.webmethods.portal.service.task.SearchKey added

com.webmethods.portal.service.task.SearchKey$TE_SearchKeys: Class
com.webmethods.portal.service.task.SearchKey$TE_SearchKeys added

com.webmethods.portal.service.task.TaskIndexEngineFactory: Class
com.webmethods.portal.service.task.TaskIndexEngineFactory added

com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent: Class
com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent added

com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$DistributionChangeType: Class
com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$DistributionChangeType added

com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$IListener: Class
com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$IListener added

com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$ISynchronousListener: Class
com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$ISynchronousListener added

com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$Listeners: Class
com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$Listeners added

com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$SynchronousListeners: Class
com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$SynchronousListeners added

com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$SynchronousListeners$Sy
nchronousListener: Class
com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$SynchronousListeners$Sy
nchronousListener added

com.webmethods.portal.service.task.event.impl.TaskDistributionChangedEvent: Class
com.webmethods.portal.service.task.event.impl.TaskDistributionChangedEvent added

com.webmethods.portal.service.task.event.impl.TaskReindexStopEvent: Class
com.webmethods.portal.service.task.event.impl.TaskReindexStopEvent added

com.webmethods.portal.service.task.impl.TaskDBIndexConfiguration: Class
com.webmethods.portal.service.task.impl.TaskDBIndexConfiguration added

com.webmethods.portal.system.cluster.impl.ClusterNodeRegisteredNotifier: Class
com.webmethods.portal.system.cluster.impl.ClusterNodeRegisteredNotifier added

com.webmethods.pushNotification.apns.connection.pool.APNSConnectionPool: Class
com.webmethods.pushNotification.apns.connection.pool.APNSConnectionPool added

com.webmethods.pushNotification.apns.connection.pool.APNSConnectionPoolManager: Class
com.webmethods.pushNotification.apns.connection.pool.APNSConnectionPoolManager added

com.webmethods.pushNotification.apns.connection.pool.APNSConnectionProvider: Class
com.webmethods.pushNotification.apns.connection.pool.APNSConnectionProvider added

com.webmethods.pushNotification.apns.connection.pool.APNSPoolableConnection: Class
com.webmethods.pushNotification.apns.connection.pool.APNSPoolableConnection added

com.webmethods.pushNotification.apns.connection.pool.IConnectionProvider: Class
com.webmethods.pushNotification.apns.connection.pool.IConnectionProvider added

com.webmethods.pushNotification.apns.connection.pool.IPoolableConnection: Class
com.webmethods.pushNotification.apns.connection.pool.IPoolableConnection added

Removed API	Replacement, if any
com.webmethods.caf.mobile.notify.task.NotificationSender: Removed java.lang.Runnable from the set of implemented interfaces	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_ACCEPTED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_CANCELLED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_COMPLETED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_EXPIRED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_FAILED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_QUEUED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_REASSIGNED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_RELEASED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_RESUMED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_SUSPENDED	
com.webmethods.portal.bizPolicy.biz.task.impl.TaskDBOHelper: Removed field reindexAllTaskExecutor	
com.webmethods.portal.bizPolicy.biz.task.impl.TaskDBOHelper: Removed field reindexingTasks	
com.webmethods.portal.mech.task.impl.TaskMechanics: Removed field USE_LIGHT_WEIGHT_EVENTS	

Deprecated API	Replacement, if any
com.webmethods.portal.service.task.impl.TaskDistributionService: Method 'public java.util.List getPrincipalActors(com.webmethods.portal.system.IURI[], boolean)' has been deprecated	
com.webmethods.portal.service.task.impl.TaskDistributionService: Method 'protected java.util.List returnPagedTaskList(java.lang.String, java.lang.Object[], boolean)' has been deprecated	

Changed API	Description

com.webmethods.caf.mobile.notify.impl.AppleMessagingCloudConnectionDetails: Increased visibility of class from package to public

com.webmethods.caf.mobile.notify.util.MobileNotifierUtil: Value of compile-time constant ANDROID_JASON_PAYLOAD_TEMPLATE has been changed

com.webmethods.caf.faces.bean.BaseFacesBean: Accessibility of field EMPTY_RESOURCES has been increased from package to public

com.webmethods.caf.mobile.notify.task.NotificationSender: In method 'public NotificationSender(java.util.concurrent.BlockingQueue, com.sun.jersey.api.client.WebResource$Builder)' the number of arguments has changed

com.webmethods.caf.mobile.notify.util.MobileNotifierUtil: In method 'public com.webmethods.caf.mobile.notify.task.Message generatePayload(java.util.List, java.lang.String, java.lang.String)' the number of arguments has changed

com.webmethods.portal.jms.um.UmJMSClient: In method 'protected void createQueue(java.lang.String, boolean, int)' the number of arguments has changed

com.webmethods.portal.jms.um.UmJMSClient: In method 'protected void createTopic(java.lang.String, boolean, int)' the number of arguments has changed

com.webmethods.portal.mech.task.impl.TaskMechanics: In method 'public void fireTaskReindexStopEvent(com.webmethods.portal.service.task.ITaskDefinition)' the number of arguments has changed

com.webmethods.caf.mobile.notify.util.MobileNotifierUtil: Return type of method 'public com.webmethods.caf.mobile.notify.task.Message generateAndroidPayload(java.util.List, java.lang.String, java.lang.String)' has been changed to java.lang.String

com.webmethods.portal.jms.db.DbJMSConnProvider: Accessibility of method 'public DbJMSConnProvider()' has been decreased from public to private

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Added API	Description

com.webmethods.caf.common.thread.NamedThreadFactory: Method 'public NamedThreadFactory(java.lang.String, boolean)' has been added

com.webmethods.caf.faces.bean.mws_ui.HtmlHead: Method 'public java.lang.String getEffectsJS()' has been added

com.webmethods.caf.faces.convert.FormattedDateTimeConverter: Added protected field dateFormatDefault

com.webmethods.caf.faces.data.object.DateRange: Added protected field controlCalendar

com.webmethods.caf.faces.data.object.DateRange: Method 'protected java.util.Calendar

Added API	Description

getControlCalendar(javax.faces.context.FacesContext)' has been added

com.webmethods.caf.faces.data.object.DateRange: Method 'public void setControlCalendar(java.util.Calendar)' has been added

com.webmethods.caf.mobile.notify.IMobileNotificationConstants: Class com.webmethods.caf.mobile.notify.IMobileNotificationConstants added

com.webmethods.caf.mobile.notify.IMobileNotificationProvider: Class com.webmethods.caf.mobile.notify.IMobileNotificationProvider added

com.webmethods.caf.mobile.notify.IMobileNotifierComponent: Class com.webmethods.caf.mobile.notify.IMobileNotifierComponent added

com.webmethods.caf.mobile.notify.activator.MobileNotificationActivator: Class com.webmethods.caf.mobile.notify.activator.MobileNotificationActivator added

com.webmethods.caf.mobile.notify.impl.MobileNotificationProvider: Class com.webmethods.caf.mobile.notify.impl.MobileNotificationProvider added

com.webmethods.caf.mobile.notify.impl.MobileNotifierComponent: Class com.webmethods.caf.mobile.notify.impl.MobileNotifierComponent added

com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Class com.webmethods.caf.mobile.notify.impl.TaskEventsHandler added

com.webmethods.caf.mobile.notify.task.Message: Class com.webmethods.caf.mobile.notify.task.Message added

com.webmethods.caf.mobile.notify.task.MonitorPendingNotificationMessages: Class com.webmethods.caf.mobile.notify.task.MonitorPendingNotificationMessages added

com.webmethods.caf.mobile.notify.task.NotificationSender: Class com.webmethods.caf.mobile.notify.task.NotificationSender added

com.webmethods.caf.mobile.notify.util.MobileNotifierUtil: Class com.webmethods.caf.mobile.notify.util.MobileNotifierUtil added

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Method 'public org.w3c.dom.Element marshallSamlObject(org.opensaml.xml.XMLObject)' has been added

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Method 'public org.opensaml.xml.XMLObject unmarshallElement(org.w3c.dom.Element)' has been added

com.webmethods.portal.bizPolicy.biz.dir.IGroupBizPolicy: Added com.webmethods.portal.bizPolicy.biz.view.IViewableContainerPolicy to the set of implemented interfaces

com.webmethods.portal.bizPolicy.biz.dir.IPrincipalBizPolicy: Added com.webmethods.portal.bizPolicy.biz.view.IViewableContainerPolicy to the set of implemented interfaces

Added API	Description

com.webmethods.portal.bizPolicy.biz.dir.IUserBizPolicy: Added com.webmethods.portal.bizPolicy.biz.view.IViewableContainerPolicy to the set of implemented interfaces

com.webmethods.portal.bizPolicy.biz.dir.impl.GroupBizPolicy: Added com.webmethods.portal.bizPolicy.biz.view.IViewableContainerPolicy to the set of implemented interfaces

com.webmethods.portal.bizPolicy.biz.dir.impl.GroupBizPolicy: Added com.webmethods.portal.bizPolicy.biz.view.impl.ViewableContainerPolicy to the list of superclasses

com.webmethods.portal.bizPolicy.biz.dir.impl.PrincipalBizPolicy: Added com.webmethods.portal.bizPolicy.biz.view.IViewableContainerPolicy to the set of implemented interfaces

com.webmethods.portal.bizPolicy.biz.dir.impl.PrincipalBizPolicy: Added com.webmethods.portal.bizPolicy.biz.view.impl.ViewableContainerPolicy to the list of superclasses

com.webmethods.portal.bizPolicy.biz.dir.impl.UserBizPolicy: Added com.webmethods.portal.bizPolicy.biz.view.IViewableContainerPolicy to the set of implemented interfaces

com.webmethods.portal.bizPolicy.biz.dir.impl.UserBizPolicy: Added com.webmethods.portal.bizPolicy.biz.view.impl.ViewableContainerPolicy to the list of superclasses

com.webmethods.portal.bizPolicy.biz.task.impl.TaskInfo: Added java.io.Serializable to the set of implemented interfaces

com.webmethods.portal.bizPolicy.biz.task.impl.TaskInfoExtended: Added java.io.Serializable to the set of implemented interfaces

com.webmethods.portal.bizPolicy.command.ICommandManager: Method 'public com.webmethods.portal.bizPolicy.command.IRemoteCommandTransport getRemoteCommandTransport(java.lang.String)' has been added to an interface

com.webmethods.portal.bizPolicy.command.ICommandManager: Method 'public java.util.List invokeClusterCommand(com.webmethods.portal.bizPolicy.IContext,

com.webmethods.portal.bizPolicy.command.ICommand, com.webmethods.portal.bizPolicy.command.ICommandBean)' has been added to an interface

com.webmethods.portal.bizPolicy.command.ICommandResponseEntry: Class com.webmethods.portal.bizPolicy.command.ICommandResponseEntry added

com.webmethods.portal.bizPolicy.command.dir.GetPortalStyle: Method 'protected void checkAccess(com.webmethods.portal.bizPolicy.IContext,

com.webmethods.portal.mech.dir.IPrincipalMechanics, com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.bizPolicy.command.dir.SearchDirectory: Method 'protected void

Added API	Description
checkAccess(com.webmethods.portal.bizPolicy.IContext,	

com.webmethods.portal.mech.dir.IDirServiceMechanics,
com.webmethods.portal.service.meta2.thing.IThingID)' has been added

com.webmethods.portal.bizPolicy.command.dir.SearchDirectoryEx: Method 'protected void checkAccess(com.webmethods.portal.bizPolicy.IContext,

com.webmethods.portal.mech.dir.IDirServiceMechanics,
com.webmethods.portal.service.meta2.thing.IThingID)' has been added

com.webmethods.portal.bizPolicy.command.dir.SearchDirectoryRefined: Method 'protected void checkAccess(com.webmethods.portal.bizPolicy.IContext,

com.webmethods.portal.mech.dir.IDirServiceMechanics,
com.webmethods.portal.service.meta2.thing.IThingID)' has been added

com.webmethods.portal.bizPolicy.command.dir.SearchDirectoryRefinedPaged: Method 'protected void checkAccess(com.webmethods.portal.bizPolicy.IContext,

com.webmethods.portal.mech.dir.IDirServiceMechanics,
com.webmethods.portal.service.meta2.thing.IThingID)' has been added

com.webmethods.portal.bizPolicy.command.impl.CommandManager: Method 'public com.webmethods.portal.bizPolicy.command.IRemoteCommandTransport getRemoteCommandTransport(java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.impl.CommandManager: Method 'public java.util.List invokeClusterCommand(com.webmethods.portal.bizPolicy.IContext,

com.webmethods.portal.bizPolicy.command.ICommand,
com.webmethods.portal.bizPolicy.command.ICommandBean)' has been added

com.webmethods.portal.bizPolicy.command.remote.RemoteCommand: Class
com.webmethods.portal.bizPolicy.command.remote.RemoteCommand added

com.webmethods.portal.bizPolicy.command.remote.RemoteCommandBean: Class
com.webmethods.portal.bizPolicy.command.remote.RemoteCommandBean added

com.webmethods.portal.bizPolicy.command.remote.jms.JmsRemoteCommandTransport: Class
com.webmethods.portal.bizPolicy.command.remote.jms.JmsRemoteCommandTransport added

com.webmethods.portal.bizPolicy.command.remote.jms.JmsRemoteCommandTransport$RemoteJmsException: Class

com.webmethods.portal.bizPolicy.command.remote.jms.JmsRemoteCommandTransport$RemoteJmsException added

com.webmethods.portal.bizPolicy.command.remote.jms.JmsRemoteTransaction: Class
com.webmethods.portal.bizPolicy.command.remote.jms.JmsRemoteTransaction added

com.webmethods.portal.bizPolicy.command.system.JndiRefreshCluster: Class

Added API	Description
com.webmethods.portal.bizPolicy.command.system.JndiRefreshCluster added	
com.webmethods.portal.bizPolicy.command.task.jms.AbstractTaskCommand: Class com.webmethods.portal.bizPolicy.command.task.jms.AbstractTaskCommand added	
com.webmethods.portal.bizPolicy.command.task.jms.AbstractTaskCommandBean: Class com.webmethods.portal.bizPolicy.command.task.jms.AbstractTaskCommandBean added	
com.webmethods.portal.bizPolicy.command.task.jms.AddTaskAttachmentJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.AddTaskAttachmentJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.AddTaskCommentJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.AddTaskCommentJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.DeleteTaskAttachmentJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.DeleteTaskAttachmentJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.DeleteTaskCommentJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.DeleteTaskCommentJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.DeleteTaskJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.DeleteTaskJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.GetTaskAttachmentsJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.GetTaskAttachmentsJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.GetTaskAuditJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.GetTaskAuditJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.GetTaskCommentsJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.GetTaskCommentsJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.GetTaskJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.GetTaskJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.QueueTaskJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.QueueTaskJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.SearchTasksFieldsJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.SearchTasksFieldsJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.SearchTasksJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.SearchTasksJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.SearchTasksPagedJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.SearchTasksPagedJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.SearchTasksTotalCountJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.SearchTasksTotalCountJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.UpdateTaskAttachmentJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.UpdateTaskAttachmentJMS added	

Added API	Description

com.webmethods.portal.bizPolicy.command.task.jms.UpdateTaskCommentJMS: Class
com.webmethods.portal.bizPolicy.command.task.jms.UpdateTaskCommentJMS added

com.webmethods.portal.bizPolicy.command.task.jms.UpdateTaskJMS: Class
com.webmethods.portal.bizPolicy.command.task.jms.UpdateTaskJMS added

com.webmethods.portal.bizPolicy.command.task.jms.impl.TaskJMSUtils: Class
com.webmethods.portal.bizPolicy.command.task.jms.impl.TaskJMSUtils added

com.webmethods.portal.bizPolicy.command.task.rs.MWSCustomDispatchProvider: Class
com.webmethods.portal.bizPolicy.command.task.rs.MWSCustomDispatchProvider added

com.webmethods.portal.bizPolicy.command.task.rs.MWSRequestDispatcher: Class
com.webmethods.portal.bizPolicy.command.task.rs.MWSRequestDispatcher added

com.webmethods.portal.bizPolicy.command.task.webservice.SearchTasksFieldsWS: Added
java.io.Serializable to the set of implemented interfaces

com.webmethods.portal.bizPolicy.command.task.webservice.SearchTasksWS: Added
java.io.Serializable to the set of implemented interfaces

com.webmethods.portal.bizPolicy.command.task.webservice.Task: Added java.io.Serializable to the set
of implemented interfaces

com.webmethods.portal.bizPolicy.command.task.webservice.dotnet.SearchTasksDotNetWS: Added
java.io.Serializable to the set of implemented interfaces

com.webmethods.portal.bizPolicy.command.task.webservice.dotnet.SearchTasksFieldsDotNetWS:
Added java.io.Serializable to the set of implemented interfaces

com.webmethods.portal.bizPolicy.impl.upgrade.MoveVersionSystemComponentData: Class
com.webmethods.portal.bizPolicy.impl.upgrade.MoveVersionSystemComponentData added

com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent: Class
com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent added

com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$IListener: Class
com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$IListener added

com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$ISynchronousListener: Class
com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$ISynchronousListener added

com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$Listeners: Class
com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$Listeners added

com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$QueueListeners: Class
com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$QueueListeners added

com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$SynchronousListeners: Class
com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$SynchronousListeners added

com.webmethods.portal.event.dir.impl.DirPrincipalDNUpdationEvent: Class

Added API	Description

com.webmethods.portal.event.dir.impl.DirPrincipalDNUpdationEvent added

com.webmethods.portal.event.sso.ISSODataChangeEvent: Class
com.webmethods.portal.event.sso.ISSODataChangeEvent added

com.webmethods.portal.event.sso.ISSODataChangeEvent$IListener: Class
com.webmethods.portal.event.sso.ISSODataChangeEvent$IListener added

com.webmethods.portal.event.sso.ISSODataChangeEvent$ISynchronousListener: Class
com.webmethods.portal.event.sso.ISSODataChangeEvent$ISynchronousListener added

com.webmethods.portal.event.sso.ISSODataChangeEvent$Listeners: Class
com.webmethods.portal.event.sso.ISSODataChangeEvent$Listeners added

com.webmethods.portal.event.sso.ISSODataChangeEvent$QueueListeners: Class
com.webmethods.portal.event.sso.ISSODataChangeEvent$QueueListeners added

com.webmethods.portal.event.sso.ISSODataChangeEvent$SynchronousListeners: Class
com.webmethods.portal.event.sso.ISSODataChangeEvent$SynchronousListeners added

com.webmethods.portal.event.sso.impl.SSODataChangeEvent: Class
com.webmethods.portal.event.sso.impl.SSODataChangeEvent added

com.webmethods.portal.framework.dispatch.handlers.system.SAMLSSOHandler: Class
com.webmethods.portal.framework.dispatch.handlers.system.SAMLSSOHandler added

com.webmethods.portal.framework.dispatch.preProcessors.OpenRedirectCheck: Class
com.webmethods.portal.framework.dispatch.preProcessors.OpenRedirectCheck added

com.webmethods.portal.framework.dispatch.resolvers.SAMLAuthReqResolver: Class
com.webmethods.portal.framework.dispatch.resolvers.SAMLAuthReqResolver added

com.webmethods.portal.framework.impl.PortalServlet: Added public field
PORTAL_SERVLET_LOCK_OBJ

com.webmethods.portal.framework.portletcontainer.servlet.JettyPortletRequestWrapper: Method
'public org.eclipse.jetty.util.MultiMap getParameterMultiMap()' has been added

com.webmethods.portal.framework.portletcontainer.servlet.JettyPortletRequestWrapper: Method
'public java.util.Map getParameters()' has been added

com.webmethods.portal.jms.JMSPhaseProvider: Added com.webmethods.portal.system.IComponent
to the set of implemented interfaces

com.webmethods.portal.jms.JMSPhaseProvider: Added com.webmethods.portal.system.IConstants to
the set of implemented interfaces

com.webmethods.portal.jms.JMSPhaseProvider: Added
com.webmethods.portal.system.impl.BaseComponent to the list of superclasses

com.webmethods.portal.jms.JMSPhaseProvider: Added public field COMPONENT_NAME

com.webmethods.portal.jms.um.UmJMSClient: Added abstract modifier to class

Added API	Description

com.webmethods.portal.jms.um.UmJMSClient: Added com.webmethods.portal.system.init.IInitializable to the set of implemented interfaces

com.webmethods.portal.jms.um.UmJMSClient: Added com.webmethods.rtl.msg.jms.IJMSProvider to the set of implemented interfaces

com.webmethods.portal.jms.um.UmJMSClient: Added com.webmethods.rtl.msg.jms.JMSProvider to the list of superclasses

com.webmethods.portal.jms.um.UmJMSClient: Added com.webmethods.rtl.msg.jms.JMSStdConnProvider to the list of superclasses

com.webmethods.portal.jms.um.UmJMSClient: Method 'protected boolean createInitialContext()' has been added

com.webmethods.portal.jms.um.UmJMSClient: Method 'protected void registerFactory(org.w3c.dom.Element)' has been added

com.webmethods.portal.jms.um.UmJMSClient: Method 'protected void registerQueue(org.w3c.dom.Element)' has been added

com.webmethods.portal.jms.um.UmJMSClient: Method 'protected void registerTopic(org.w3c.dom.Element)' has been added

com.webmethods.portal.jms.um.UmJMSClient: Method 'protected void resetContext()' has been added

com.webmethods.portal.jms.um.UmJMSConnProvider: Added com.webmethods.portal.jms.um.UmJMSClient to the list of superclasses

com.webmethods.portal.jms.um.UmJMSConnProvider: Method 'protected void onDisconnect(boolean)' has been added

com.webmethods.portal.jms.um.UmJMSConnProvider: Method 'public void onShutdown()' has been added

com.webmethods.portal.mech.dir.IDirServiceMechanics: Method 'public java.util.List updatePrincipalUUID(int)' has been added to an interface

com.webmethods.portal.mech.dir.IGroupMechanics: Added com.webmethods.portal.mech.view.IViewableContainerMechanics to the set of implemented interfaces

com.webmethods.portal.mech.dir.IPrincipalMechanics: Added com.webmethods.portal.mech.view.IViewableContainerMechanics to the set of implemented interfaces

com.webmethods.portal.mech.dir.IRoleMechanics: Added com.webmethods.portal.mech.view.IViewableContainerMechanics to the set of implemented interfaces

com.webmethods.portal.mech.dir.IUserMechanics: Added com.webmethods.portal.mech.view.IViewableContainerMechanics to the set of implemented interfaces

com.webmethods.portal.mech.dir.impl.DirMechanicsUtils: Method 'public java.lang.String generateUUIDQuery(com.webmethods.portal.service.dir.IDirService, java.lang.String, int)' has been

Added API	Description
added	

com.webmethods.portal.mech.dir.impl.DirServiceMechanics: Method 'public java.util.List updatePrincipalUUID(int)' has been added

com.webmethods.portal.mech.dir.impl.GroupMechanics: Added com.webmethods.portal.mech.view.IViewableContainerMechanics to the set of implemented interfaces

com.webmethods.portal.mech.dir.impl.GroupMechanics: Added com.webmethods.portal.mech.view.impl.ViewableContainerMechanics to the list of superclasses

com.webmethods.portal.mech.dir.impl.PrincipalMechanics: Added com.webmethods.portal.mech.view.IViewableContainerMechanics to the set of implemented interfaces

com.webmethods.portal.mech.dir.impl.PrincipalMechanics: Added com.webmethods.portal.mech.view.impl.ViewableContainerMechanics to the list of superclasses

com.webmethods.portal.mech.dir.impl.RoleMechanics: Added com.webmethods.portal.mech.view.IViewableContainerMechanics to the set of implemented interfaces

com.webmethods.portal.mech.dir.impl.RoleMechanics: Added com.webmethods.portal.mech.view.impl.ViewableContainerMechanics to the list of superclasses

com.webmethods.portal.mech.dir.impl.UserMechanics: Added com.webmethods.portal.mech.view.IViewableContainerMechanics to the set of implemented interfaces

com.webmethods.portal.mech.dir.impl.UserMechanics: Added com.webmethods.portal.mech.view.impl.ViewableContainerMechanics to the list of superclasses

com.webmethods.portal.mech.task.impl.RefreshTaskHandler: Class com.webmethods.portal.mech.task.impl.RefreshTaskHandler added

com.webmethods.portal.mech.task.impl.TaskHelper: Method 'public java.lang.ClassLoader getClassLoaderIfExists(com.webmethods.portal.service.task.ITaskDefinition)' has been added

com.webmethods.portal.mech.view.impl.ViewableContainerMechanics: Method 'protected com.webmethods.portal.service.view.IPagingCookie createPagingCookie(com.webmethods.portal.service.meta2.thing.IThingID)' has been added

com.webmethods.portal.service.access.IAccessPrivilegeConfiguration: Class com.webmethods.portal.service.access.IAccessPrivilegeConfiguration added

com.webmethods.portal.service.access.impl.DashboardAclManager: Class com.webmethods.portal.service.access.impl.DashboardAclManager added

com.webmethods.portal.service.access.impl.DashboardAclManager$DashboardAclResource: Class com.webmethods.portal.service.access.impl.DashboardAclManager$DashboardAclResource added

com.webmethods.portal.service.access.impl.DashboardContainerAclManager: Class com.webmethods.portal.service.access.impl.DashboardContainerAclManager added

com.webmethods.portal.service.access.impl.DashboardContainerAclManager$DashboardContainerAcl

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Added API	Description
Resource: Class	

com.webmethods.portal.service.access.impl.DashboardContainerAclManager$DashboardContainerAcl Resource added

com.webmethods.portal.service.access.impl.GadgetsAclManager: Method 'public java.util.Map getResultColumnMetadata()' has been added

com.webmethods.portal.service.access.impl.GadgetsAclManager: Method 'public java.util.List searchResources(com.webmethods.caf.faces.search.query.ISearchQuery)' has been added

com.webmethods.portal.service.access.impl.GadgetsAclManager$GadgetAclResource: Method 'public java.lang.Object getValue(java.lang.Object)' has been added

com.webmethods.portal.service.access.impl.WMAppsAclManager: Method 'public void addServiceTracker(org.osgi.framework.BundleContext)' has been added

com.webmethods.portal.service.access.impl.WMAppsAclManager: Method 'public void stopServiceTracker()' has been added

com.webmethods.portal.service.cache.impl.AliasCache: Added com.webmethods.portal.event.remove.IDeleteEvent$ISynchronousListener to the set of implemented interfaces

com.webmethods.portal.service.cache.impl.AliasCache: Method 'public void onSynchronousEvent(com.webmethods.portal.event.remove.IDeleteEvent)' has been added

com.webmethods.portal.service.dir.DirectoryTools: Added public field UUIDUserResolution

com.webmethods.portal.service.dir.DirectoryTools: Added protected field UUID_CONFIG

com.webmethods.portal.service.dir.DirectoryTools: Method 'public com.webmethods.portal.service.dir.IDirService getDirectoryService(com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.service.dir.DirectoryTools: Method 'public java.util.List getEmptyUUIDUsers()' has been added

com.webmethods.portal.service.dir.DirectoryTools: Method 'public java.lang.Boolean getUUIDResolution()' has been added

com.webmethods.portal.service.dir.DirectoryTools: Method 'public java.lang.String getUserDNFromUserUUID(java.lang.String, com.webmethods.portal.service.meta2.IUserService)' has been added

com.webmethods.portal.service.dir.DirectoryTools: Method 'public void invalidateGroupRoleCache(com.webmethods.portal.service.meta2.thing.IThingID)' has been added

com.webmethods.portal.service.dir.DirectoryTools: Method 'public com.webmethods.portal.service.meta2.thing.IThingID resolveUserByUUID(com.webmethods.portal.service.dir.init.IInitializableUser)' has been added

Added API	Description

com.webmethods.portal.service.dir.DirectoryTools: Method 'public java.util.List updatePrincipalUUID()' has been added

com.webmethods.portal.service.dir.IDirConstants: Added public field USER_UUID

com.webmethods.portal.service.dir.IDirQueryProvider: Method 'public com.webmethods.portal.service.dir.IDirPrincipal lookupByUUID(int, java.lang.String)' has been added to an interface

com.webmethods.portal.service.dir.impl.DirServicePortletBean: Method 'public boolean isSirNameFirst(com.webmethods.portal.bizPolicy.IContext)' has been added

com.webmethods.portal.service.dir.init.IInitializablePrincipal: Method 'public java.lang.String getUUID()' has been added to an interface

com.webmethods.portal.service.dir.init.impl.InitializablePrincipal: Method 'public java.lang.String getUUID()' has been added

com.webmethods.portal.service.meta2.IUserService: Method 'public java.util.List getEmptyUUIDUsers()' has been added to an interface

com.webmethods.portal.service.meta2.IUserService: Method 'public java.util.Map getUserDetailsByURI(com.webmethods.portal.system.IURI)' has been added to an interface

com.webmethods.portal.service.meta2.IUserService: Method 'public java.util.Map getUserDetailsByUUID(java.lang.String)' has been added to an interface

com.webmethods.portal.service.meta2.IUserService: Method 'public void invalidateUserUUID()' has been added to an interface

com.webmethods.portal.service.meta2.IUserService: Method 'public void updateDistinguishedName(java.lang.String, java.lang.String, int)' has been added to an interface

com.webmethods.portal.service.meta2.IUserService: Method 'public void updateUUID(java.lang.String, java.lang.String, int)' has been added to an interface

com.webmethods.portal.service.meta2.directory.IUserInfo: Method 'public java.lang.String getUUID()' has been added to an interface

com.webmethods.portal.service.meta2.directory.impl.User: Method 'public java.lang.String getUUID()' has been added

com.webmethods.portal.service.meta2.directory.impl.UserInfo: Added protected field uuid

com.webmethods.portal.service.meta2.directory.impl.UserInfo: Method 'public java.lang.String getUUID()' has been added

com.webmethods.portal.service.meta2.impl.UserService: Method 'public java.util.List getEmptyUUIDUsers()' has been added

com.webmethods.portal.service.meta2.impl.UserService: Method 'public java.util.Map getUserDetailsByURI(com.webmethods.portal.system.IURI)' has been added

Added API	Description

com.webmethods.portal.service.meta2.impl.UserService: Method 'public java.util.Map getUserDetailsByUUID(java.lang.String)' has been added

com.webmethods.portal.service.meta2.impl.UserService: Method 'public void invalidateUserUUID()' has been added

com.webmethods.portal.service.meta2.impl.UserService: Method 'public void updateDistinguishedName(java.lang.String, java.lang.String, int)' has been added

com.webmethods.portal.service.meta2.impl.UserService: Method 'public void updateUUID(java.lang.String, java.lang.String, int)' has been added

com.webmethods.portal.service.socialbpm.chart.impl.ChartData: Method 'public java.lang.String getTaskTypeID()' has been added

com.webmethods.portal.service.socialbpm.chart.impl.ChartData: Method 'public void setTaskTypeID(java.lang.String)' has been added

com.webmethods.portal.service.socialbpm.chart.impl.ChartService: Method 'protected java.lang.String getTaskTypeID(java.lang.String)' has been added

com.webmethods.portal.service.sql.runtime.base.EmptyUUIDUserList: Class com.webmethods.portal.service.sql.runtime.base.EmptyUUIDUserList added

com.webmethods.portal.service.sql.runtime.base.InvalidateUserUUID: Class com.webmethods.portal.service.sql.runtime.base.InvalidateUserUUID added

com.webmethods.portal.service.sql.runtime.base.SetUserGroupUUID: Class com.webmethods.portal.service.sql.runtime.base.SetUserGroupUUID added

com.webmethods.portal.service.sql.runtime.base.TaskLockSetNew: Class com.webmethods.portal.service.sql.runtime.base.TaskLockSetNew added

com.webmethods.portal.service.sql.runtime.base.UserDetailsByURI: Class com.webmethods.portal.service.sql.runtime.base.UserDetailsByURI added

com.webmethods.portal.service.sql.runtime.base.UserDetailsByUUID: Class com.webmethods.portal.service.sql.runtime.base.UserDetailsByUUID added

com.webmethods.portal.service.task.ITaskLockingService: Method 'public com.webmethods.portal.service.task.ITaskLock acquireLock(com.webmethods.portal.system.IURI,

com.webmethods.portal.system.IURI, long, long, boolean)' has been added to an interface

com.webmethods.portal.service.task.event.RefreshTaskEvent: Class com.webmethods.portal.service.task.event.RefreshTaskEvent added

com.webmethods.portal.service.task.event.RefreshTaskEvent$ISynchronousListener: Class com.webmethods.portal.service.task.event.RefreshTaskEvent$ISynchronousListener added

com.webmethods.portal.service.task.event.RefreshTaskEvent$SynchronousListeners: Class com.webmethods.portal.service.task.event.RefreshTaskEvent$SynchronousListeners added

Added API	Description
com.webmethods.portal.service.task.event.RefreshTaskEvent$SynchronousListeners$SynchronousListener: Class	com.webmethods.portal.service.task.event.RefreshTaskEvent$SynchronousListeners$SynchronousListener added
com.webmethods.portal.service.task.event.TaskChangedEventRetry: Class	com.webmethods.portal.service.task.event.TaskChangedEventRetry added
com.webmethods.portal.service.task.event.impl.RefreshTaskEvent: Class	com.webmethods.portal.service.task.event.impl.RefreshTaskEvent added
com.webmethods.portal.service.task.impl.TaskLockingService: Method 'public com.webmethods.portal.service.task.ITaskLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long, boolean)' has been added	
com.webmethods.portal.system.ISAMLSSOConstants: Class com.webmethods.portal.system.ISAMLSSOConstants added	
com.webmethods.portal.system.cluster.IClusterProvider: Method 'public java.lang.String getClusterId()' has been added to an interface	
com.webmethods.portal.system.cluster.IClusterProvider: Method 'public boolean isCurrentServer(com.webmethods.portal.system.cluster.IServer)' has been added to an interface	
com.webmethods.portal.system.cluster.IClusterProvider: Method 'public void recreateJNDIConnection()' has been added to an interface	
com.webmethods.portal.system.cluster.IClusterProvider: Method 'public boolean reloadJNDIProviderURL()' has been added to an interface	
com.webmethods.portal.system.cluster.impl.ClusterProvider: Added public field CLUSTER_ID_PROP_KEY	
com.webmethods.portal.system.cluster.impl.ClusterProvider: Added public field s_logCategory	
com.webmethods.portal.system.cluster.impl.ClusterProvider: Method 'public java.lang.String getClusterId()' has been added	
com.webmethods.portal.system.cluster.impl.ClusterProvider: Method 'public boolean isCurrentServer(com.webmethods.portal.system.cluster.IServer)' has been added	
com.webmethods.portal.system.cluster.impl.ClusterProvider: Method 'public void recreateJNDIConnection()' has been added	
com.webmethods.portal.system.cluster.impl.ClusterProvider: Method 'public boolean reloadJNDIProviderURL()' has been added	
com.webmethods.portal.system.sso.saml.idp.SAMLIdentityProvider: Class com.webmethods.portal.system.sso.saml.idp.SAMLIdentityProvider added	
com.webmethods.portal.system.sso.saml.idp.SAMLSSODataChangeListener: Class	

Added API	Description

com.webmethods.portal.system.sso.saml.idp.SAMLSSODataChangeListener added

com.webmethods.portal.system.sso.saml.idp.SAMLServiceProvider: Class
com.webmethods.portal.system.sso.saml.idp.SAMLServiceProvider added

com.webmethods.portal.system.sso.saml.idp.SSOIDPConfiguration: Class
com.webmethods.portal.system.sso.saml.idp.SSOIDPConfiguration added

com.webmethods.portal.system.sso.saml.idp.WebSSOPropsUtil: Class
com.webmethods.portal.system.sso.saml.idp.WebSSOPropsUtil added

com.webmethods.portal.taglib.TaglibUtil: Method 'public java.lang.String generateUniqueID()' has been added

com.webmethods.portal.webservices.wsclient.PortalArtifactFactory: Method 'public org.opensaml.saml2.core.AuthnRequest getAuthnRequest(java.lang.String)' has been added

com.webmethods.portal.webservices.wsclient.PortalArtifactFactory: Method 'public java.lang.String getResponse(java.net.URL, java.lang.String, java.util.Map, java.lang.String[], java.util.Map, org.opensaml.saml2.core.AuthnRequest)' has been added

com.webmethods.portal.webservices.wsclient.PortalArtifactFactory: Method 'public void reInitSecurityTokenService()' has been added

com.webmethods.rtl.event.DeliveryService: Method 'public java.lang.String addClusterIdPrefix(java.lang.String)' has been added

com.webmethods.rtl.event.DeliveryService: Method 'public void setClusterId(java.lang.String)' has been added

com.webmethods.rtl.event.DeliveryService: Method 'public void startRemoteDelivery()' has been added

com.webmethods.rtl.event.DeliveryService: Method 'public void stopRemoteDelivery()' has been added

com.webmethods.rtl.event.Event: Method 'public java.lang.String getJcrSessionUserData()' has been added

com.webmethods.rtl.event.IEvent: Method 'public java.lang.String getJcrSessionUserData()' has been added to an interface

com.webmethods.rtl.jms.PortalClientOverJMS: Class com.webmethods.rtl.jms.PortalClientOverJMS added

com.webmethods.rtl.logging.EnhancedPatternLayout: Class
com.webmethods.rtl.logging.EnhancedPatternLayout added

com.webmethods.rtl.msg.jms.IJMSProvider: Method 'public java.lang.String getEndpointAddress()' has been added to an interface

com.webmethods.rtl.msg.jms.IJMSProvider: Method 'public boolean isConnected()' has been added to

Added API	Description
an interface	

com.webmethods.rtl.msg.jms.JMSProvider: Added protected field m_endpointAddress

com.webmethods.rtl.msg.jms.JMSProvider: Added protected field m_isConnected

com.webmethods.rtl.msg.jms.JMSProvider: Method 'public java.lang.String getEndpointAddress()' has been added

com.webmethods.rtl.msg.jms.JMSProvider: Method 'public boolean isConnected()' has been added

com.webmethods.rtl.msg.jms.JMSProvider: Abstract method 'protected void stopConnections()' has been added

com.webmethods.rtl.msg.jms.JMSStdConnProvider: Method 'protected void stopConnections()' has been added

com.webmethods.rtl.script.JspC: Method 'public java.lang.String getExcludes()' has been added

com.webmethods.rtl.script.JspC: Method 'public void setExcludes(java.lang.String)' has been added

com.webmethods.rtl.util.xml.XMLUtil: Method 'protected org.w3c.dom.Document _loadDocumentUncaught(org.xml.sax.InputSource)' has been added

com.webmethods.rtl.util.xml.XMLUtil: Method 'public org.w3c.dom.Document loadDocumentFromInputStreamUncaught(java.io.InputStream)' has been added

com.webmethods.rtl.util.xml.XMLUtil: Method 'public org.w3c.dom.Document loadDocumentFromReaderUncaught(java.io.Reader)' has been added

com.webmethods.rtl.util.xml.XMLUtil: Method 'public org.w3c.dom.Document loadDocumentFromXMLUncaught(java.lang.String)' has been added

com.webmethods.rtl.util.xml.XMLUtil: Method 'public org.w3c.dom.Document loadDocumentUncaught(java.lang.String)' has been added

Removed API	Replacement, if any

com.webmethods.caf.jcr.rmi.IRMITunnelHttpPortAware: Class
com.webmethods.caf.jcr.rmi.IRMITunnelHttpPortAware removed

com.webmethods.caf.jcr.rmi.JcrRMIHttpToCGISocketFactory: Class
com.webmethods.caf.jcr.rmi.JcrRMIHttpToCGISocketFactory removed

com.webmethods.caf.jcr.rmi.JcrRMIMasterSocketFactory: Class
com.webmethods.caf.jcr.rmi.JcrRMIMasterSocketFactory removed

com.webmethods.jackrabbit.server.io.DefaultHandler: Class
com.webmethods.jackrabbit.server.io.DefaultHandler removed

com.webmethods.jackrabbit.servlet.JCRWebdavServerServlet: Class
com.webmethods.jackrabbit.servlet.JCRWebdavServerServlet removed

Removed API	Replacement, if any
com.webmethods.jackrabbit.servlet.SimpleWebdavServlet: Class com.webmethods.jackrabbit.servlet.SimpleWebdavServlet removed	
com.webmethods.portal.jms.um.UmJMSClient: Field DEFAULT_UM_REALM has been removed, but it was previously a constant	
com.webmethods.portal.jms.um.UmJMSClient: Method 'public void init()' has been removed	
com.webmethods.portal.schema.bcgadget.GadgetDefinition: Removed field gadgetExternalScripts	
com.webmethods.portal.schema.bcgadget.GadgetDefinition: Method 'public com.webmethods.portal.schema.bcgadget.GadgetDefinition$GadgetExternalScripts getGadgetExternalScripts()' has been removed	
com.webmethods.portal.schema.bcgadget.GadgetDefinition: Method 'public void setGadgetExternalScripts(com.webmethods.portal.schema.bcgadget.GadgetDefinition$GadgetExternalScripts)' has been removed	
com.webmethods.portal.schema.bcgadget.GadgetDefinition$GadgetExternalScripts: Class com.webmethods.portal.schema.bcgadget.GadgetDefinition$GadgetExternalScripts removed	
com.webmethods.portal.schema.bcgadget.ObjectFactory: Method 'public com.webmethods.portal.schema.bcgadget.GadgetDefinition$GadgetExternalScripts createGadgetDefinitionGadgetExternalScripts()' has been removed	
com.webmethods.portal.service.access.impl.GadgetsAclManager: Method 'protected java.lang.String buildXPathQuery(java.util.Map)' has been removed, but an inherited definition exists.	
com.webmethods.portal.service.access.impl.GadgetsAclManager$GadgetAclResource: Method 'public GadgetsAclManager$GadgetAclResource(javax.jcr.Node, java.lang.String)' has been removed	
com.webmethods.rtl.msg.jms.JMSProvider: Method 'public void enableMessageDelivery()' has been removed	
com.webmethods.rtl.msg.jms.JMSProvider: Method 'public boolean hasInitialized()' has been removed	
com.webmethods.rtl.msg.jms.JMSProvider: Method 'protected void setInstance(com.webmethods.rtl.msg.jms.JMSProvider)' has been removed	
com.webmethods.rtl.msg.jms.JMSProvider: Method 'protected void startConnections()' has been removed	
com.webmethods.rtl.msg.jms.JMSStdConnProvider: Method 'protected void startConnections()' has been removed	

Changed API	Description
com.webmethods.caf.common.bnd.PortletXmlAnalyzer: Parameter 1 of 'public boolean analyzeJar(aQute.lib.osgi.Analyzer)' has changed its type to aQute.bnd.osgi.Analyzer	

Changed API	Description

com.webmethods.caf.common.bnd.WebXmlAnalyzer: Parameter 1 of 'public boolean analyzeJar(aQute.lib.osgi.Analyzer)' has changed its type to aQute.bnd.osgi.Analyzer

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Parameter 2 of 'public void displayAssertion(java.io.PrintWriter, org.opensaml.SAMLAssertion)' has changed its type to org.opensaml.saml1.core.Assertion

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Parameter 1 of 'public java.lang.String getLoginName(org.opensaml.SAMLAssertion)' has changed its type to org.opensaml.saml1.core.Assertion

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Return type of method 'public org.opensaml.SAMLAssertion getSamlAssertion(java.lang.String, java.lang.String)' has been changed to org.opensaml.saml1.core.Assertion

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Parameter 1 of 'public org.opensaml.SAMLAssertion getSamlAssertion(org.opensaml.SAMLResponse)' has changed its type to org.opensaml.saml1.core.Response

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Return type of method 'public org.opensaml.SAMLAssertion getSamlAssertion(org.opensaml.SAMLResponse)' has been changed to org.opensaml.saml1.core.Assertion

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Return type of method 'public org.opensaml.SAMLResponse getSamlResponse(java.lang.String, java.lang.String)' has been changed to org.opensaml.saml1.core.Response

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Parameter 1 of 'public java.lang.String verifyAssertion(org.opensaml.SAMLAssertion)' has changed its type to org.opensaml.saml1.core.Assertion

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public UmJMSClient()' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void closeUMSession(com.pcbsys.nirvana.client.nSession)' has been decreased from public to private

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void createConnectionFactory(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Return type of method 'public javax.naming.Context createJNDIContext()' has been changed to void

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public javax.naming.Context createJNDIContext()' has been decreased from public to private

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void createQueue(java.lang.String, boolean, int)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void

Changed API	Description

createQueueConnectionFactory(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void createStringVal(java.lang.String, java.lang.String)' has been decreased from public to package

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void createTopic(java.lang.String, boolean, int)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void createTopicConnectionFactory(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void createXAConnectionFactory(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void deleteConnectionFactory(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void deleteQueue(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void deleteQueueConnectionFactory(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void deleteTopic(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void deleteTopicConnectionFactory(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public javax.naming.Context getJNDIContext()' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public com.pcbsys.nirvana.client.nSession getUMSession()' has been decreased from public to private

com.webmethods.portal.service.bcgadget.IBCGadgetProvider: Return type of method 'public java.util.List getAccessibleGadgets(com.webmethods.portal.service.meta2.thing.IThingID)' has been changed to java.util.Map

com.webmethods.portal.service.bcgadget.impl.BCGadgetProvider: Return type of method 'public java.util.List getAccessibleGadgets(com.webmethods.portal.service.meta2.thing.IThingID)' has been changed to java.util.Map

com.webmethods.portal.service.task.impl.TaskLockingService: Accessibility of field TASK_LOCK_MAX_TIME has been increased from private to public

com.webmethods.portal.service.task.impl.TaskLockingService: Accessibility of field TASK_LOCK_MAX_WAIT_TIME has been increased from private to public

com.webmethods.portal.service.task.impl.TaskLockingService: In method 'protected com.webmethods.portal.service.task.ITaskLock createDbLock(com.webmethods.portal.service.sql.ISqlWorker,

Changed API	Description

com.webmethods.portal.service.meta2.thing.IThingID, java.util.Date, java.util.Date)' the number of arguments has changed

com.webmethods.portal.system.PortalSystem: Accessibility of method 'private void initGuestUser()' has been increased from private to public

com.webmethods.rtl.msg.jms.JMSProvider: Accessibility of method 'public void onShutdown()' has been decreased from public to protected

com.webmethods.rtl.msg.jms.JMSProvider: Accessibility of method 'private void setMaintenanceMode(boolean)' has been increased from private to protected

com.webmethods.rtl.msg.jms.JMSStdConnProvider: Accessibility of method 'public JMSStdConnProvider()' has been decreased from public to protected

com.webmethods.portal.service.version.impl.dcvs.DCVersionService: Value of compile-time constant VERSION_SERVICES_ROOT has been changed

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com.webmethods.portal.bizPolicy.biz.access.IAccessPolicy: Method 'public com.webmethods.portal.service.view.IListView listSecurityRealmObjects(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.service.meta2.thing.IThingID)' has been added to an interface

com.webmethods.portal.mech.subscription.ISubscribableMechanics: Method 'public void checkViewSubscription(com.webmethods.portal.system.IURI, com.webmethods.portal.service.meta2.thing.IThingID, java.util.Map, com.webmethods.portal.service.meta2.thing.IThingID)' has been added to an interface

com.webmethods.portal.bizPolicy.biz.IBizPolicyResolver: Method 'public com.webmethods.portal.bizPolicy.biz.IBizPolicy getBizPolicyByType(java.lang.String, java.util.Map)' has been added to an interface

com.webmethods.caf.wsclient.saml.IArtifactFactory: Method 'public java.lang.String getAssertion(java.lang.String, java.lang.String[], java.util.Map)' has been added to an interface

com.webmethods.caf.wsclient.saml.IArtifactFactory: Method 'public java.lang.String getAssertion(java.lang.String, java.lang.String[], java.util.Map, java.util.Map)' has been added to an interface

com.webmethods.caf.wsclient.session.IWSClientSession: Method 'public java.util.Map getSessionCookieMap()' has been added to an interface

com.webmethods.caf.wsclient.session.IWSClientSession: Method 'public void setSessionCookieMap(java.util.Map)' has been added to an interface

com.webmethods.caf.wsclient.session.IWSClientSessionManager: Method 'public com.webmethods.caf.wsclient.session.IWSClientSessionPool getSessionPool(com.webmethods.caf.wsclient.proxy.IWSClientProxy, java.lang.String)' has been added to an interface

com.webmethods.caf.faces.data.task.ITaskInfo: Method 'public java.util.Date getTaskScheduleDate()' has been added to an interface

com.webmethods.caf.faces.data.task.ITaskInfo: Method 'public void setCreatedDate(java.util.Date)' has been added to an interface

com.webmethods.caf.faces.data.task.ITaskInfo: Method 'public void setTaskScheduleDate(java.util.Date)' has been added to an interface

com.webmethods.portal.service.task.ITask: Method 'public java.util.Date getTaskScheduleDate()' has been added to an interface

Changed API/ Description

com.webmethods.portal.event.system.ICriterionEvent$IListener: Parameter 1 of 'public void onEvent(com.webmethods.portal.event.system.ISubscriptionEvent)' has changed its type to com.webmethods.portal.event.system.ICriterionEvent

com.webmethods.portal.event.system.ICriterionEvent$ISynchronousListener: Parameter 1 of 'public void onSynchronousEvent(com.webmethods.portal.event.system.ISubscriptionEvent)' has changed its type to com.webmethods.portal.event.system.ICriterionEvent

com.webmethods.portal.service.access.impl.MwsObjectAclManager: In method 'protected int countAceProperties(java.util.List)' the number of arguments has changed

com.webmethods.caf.wsclient.session.impl.WSClientSessionManager: Parameter 2 of 'protected java.lang.String getSessionPoolID(com.webmethods.caf.wsclient.proxy.IWSClientProxy, com.webmethods.caf.wsclient.AuthCredentials)' has changed its type to java.lang.String

Removed API/ Description

com.webmethods.portal.mech.system.ISystemMechanics: Removed com.webmethods.portal.mech.access.IAccessMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.ISystemMechanics: Removed com.webmethods.portal.mech.clipboard.IClipboardMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.ISystemMechanics: Removed com.webmethods.portal.mech.storage.IBasicMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.ISystemMechanics: Removed com.webmethods.portal.mech.subscription.ISubscribableMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.ISystemMechanics: Removed com.webmethods.portal.mech.view.IViewableMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed com.webmethods.portal.mech.access.IAccessMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed com.webmethods.portal.mech.clipboard.IClipboardMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed com.webmethods.portal.mech.storage.IBasicMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed com.webmethods.portal.mech.subscription.ISubscribableMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed com.webmethods.portal.mech.view.IViewableMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed com.webmethods.portal.mech.clipboard.impl.ClipboardMechanics from the list of superclasses

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed com.webmethods.portal.mech.storage.impl.BasicMechanics from the list of superclasses

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed com.webmethods.portal.mech.subscription.impl.SubscribableMechanics from the list of superclasses

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed com.webmethods.portal.mech.view.impl.ViewableMechanics from the list of superclasses

com.webmethods.portal.webapp.jetty7.WebApplicationInstallService: Removed field COMPONENT_DELETE_RETRIES

com.webmethods.portal.service.global.impl.LanguagePackManager: Field QUERY_STRING has been removed, but it was previously a constant

com.webmethods.caf.faces.convert.FormattedDateTimeConverter: Method 'protected java.text.DateFormat setupGMTDateTimeFormater(javax.faces.context.FacesContext)' has been removed

com.webmethods.portal.mech.socialbpm.comments.ICommentsMechanics: Method 'public java.util.List getTaskCommentsByProcessModelId(java.lang.String, int, int, int)' has been added to an interface

com.webmethods.portal.service.socialbpm.comments.ICommentsService: Method 'public java.util.List getPaginatedTaskCommentsByProcessModelId(java.lang.String, int, int, int)' has been added to an interface

com.webmethods.portal.service.dir.IRoleSystem: Method 'public void clearCache(com.webmethods.portal.service.dir.IDirPrincipal)' has been added to an interface

com.webmethods.portal.mech.dir.IPrincipalMechanics: Method 'public void fireRoleMembershipEvent(com.webmethods.portal.service.meta2.thing.IThingID, com.webmethods.portal.system.IURI, com.webmethods.portal.service.dir.IDirPrincipalList, com.webmethods.portal.service.dir.IDirPrincipalList, int)' has been added to an interface

move the com.webmethods.jms.** packages from caf-server bundle to a unique package name

com.webmethods.jms.JMSPhaseProvider: Class com.webmethods.jms.JMSPhaseProvider removed

com.webmethods.jms.db.DbJMSClient: Class com.webmethods.jms.db.DbJMSClient removed

com.webmethods.jms.db.DbJMSConnProvider: Class com.webmethods.jms.db.DbJMSConnProvider removed

com.webmethods.jms.db.impl.JMSConnection: Class com.webmethods.jms.db.impl.JMSConnection removed

com.webmethods.jms.db.impl.JMSConnection$CompressedObject: Class com.webmethods.jms.db.impl.JMSConnection$CompressedObject removed

com.webmethods.jms.db.impl.JMSDestination: Class com.webmethods.jms.db.impl.JMSDestination removed

com.webmethods.jms.db.impl.JMSDispatcherThread: Class com.webmethods.jms.db.impl.JMSDispatcherThread removed

com.webmethods.jms.db.impl.JMSEvent: Class com.webmethods.jms.db.impl.JMSEvent removed

com.webmethods.jms.db.impl.JMSMessage: Class com.webmethods.jms.db.impl.JMSMessage removed

com.webmethods.jms.db.impl.JMSMessageConsumer: Class com.webmethods.jms.db.impl.JMSMessageConsumer removed

com.webmethods.jms.db.impl.JMSMessageProducer: Class com.webmethods.jms.db.impl.JMSMessageProducer removed

com.webmethods.jms.db.impl.JMSObjectMessage: Class com.webmethods.jms.db.impl.JMSObjectMessage removed

com.webmethods.jms.db.impl.JMSPollThread: Class com.webmethods.jms.db.impl.JMSPollThread removed

com.webmethods.jms.db.impl.JMSQueue: Class com.webmethods.jms.db.impl.JMSQueue removed

com.webmethods.jms.db.impl.JMSQueuePollThread: Class com.webmethods.jms.db.impl.JMSQueuePollThread removed

com.webmethods.jms.db.impl.JMSQueueReceiver: Class com.webmethods.jms.db.impl.JMSQueueReceiver removed

com.webmethods.jms.db.impl.JMSQueueSender: Class com.webmethods.jms.db.impl.JMSQueueSender removed

com.webmethods.jms.db.impl.JMSQueueSession: Class com.webmethods.jms.db.impl.JMSQueueSession removed

com.webmethods.jms.db.impl.JMSSession: Class com.webmethods.jms.db.impl.JMSSession removed

com.webmethods.jms.db.impl.JMSTopic: Class com.webmethods.jms.db.impl.JMSTopic removed

com.webmethods.jms.db.impl.JMSTopicBatchMessage: Class com.webmethods.jms.db.impl.JMSTopicBatchMessage removed

com.webmethods.jms.db.impl.JMSTopicPublisher: Class com.webmethods.jms.db.impl.JMSTopicPublisher removed

com.webmethods.jms.db.impl.JMSTopicSession: Class com.webmethods.jms.db.impl.JMSTopicSession removed

com.webmethods.jms.db.impl.JMSTopicSubscriber: Class com.webmethods.jms.db.impl.JMSTopicSubscriber removed

com.webmethods.jms.db.impl.QueueFactory: Class com.webmethods.jms.db.impl.QueueFactory removed

com.webmethods.jms.db.impl.TopicFactory: Class com.webmethods.jms.db.impl.TopicFactory removed

com.webmethods.jms.db.impl.db2.EventDelivered: Class com.webmethods.jms.db.impl.db2.EventDelivered removed

com.webmethods.jms.db.impl.db2.EventPoll: Class com.webmethods.jms.db.impl.db2.EventPoll removed

com.webmethods.jms.db.impl.db2.EventSave: Class com.webmethods.jms.db.impl.db2.EventSave removed

com.webmethods.jms.db.impl.db2.GetSqlTime: Class com.webmethods.jms.db.impl.db2.GetSqlTime removed

com.webmethods.jms.db.impl.db2.PublishQueue: Class com.webmethods.jms.db.impl.db2.PublishQueue removed

com.webmethods.jms.db.impl.db2.PurgeEvents: Class com.webmethods.jms.db.impl.db2.PurgeEvents removed

com.webmethods.jms.db.impl.db2.PurgeInactiveSubscriptions: Class com.webmethods.jms.db.impl.db2.PurgeInactiveSubscriptions removed

com.webmethods.jms.db.impl.db2.RegisterDestination: Class com.webmethods.jms.db.impl.db2.RegisterDestination removed

com.webmethods.jms.db.impl.db2.RegisterSubscription: Class com.webmethods.jms.db.impl.db2.RegisterSubscription removed

com.webmethods.jms.db.impl.db2.UnregisterSubscription: Class com.webmethods.jms.db.impl.db2.UnregisterSubscription removed

com.webmethods.jms.db.impl.db2.UpdateSubscriptions: Class com.webmethods.jms.db.impl.db2.UpdateSubscriptions removed

com.webmethods.jms.db.impl.mssql.EventDelivered: Class com.webmethods.jms.db.impl.mssql.EventDelivered removed

com.webmethods.jms.db.impl.mssql.EventPoll: Class com.webmethods.jms.db.impl.mssql.EventPoll removed

com.webmethods.jms.db.impl.mssql.EventSave: Class com.webmethods.jms.db.impl.mssql.EventSave removed

com.webmethods.jms.db.impl.mssql.GetSqlTime: Class com.webmethods.jms.db.impl.mssql.GetSqlTime removed

com.webmethods.jms.db.impl.mssql.PublishQueue: Class com.webmethods.jms.db.impl.mssql.PublishQueue removed

com.webmethods.jms.db.impl.mssql.PurgeEvents: Class com.webmethods.jms.db.impl.mssql.PurgeEvents removed

com.webmethods.jms.db.impl.mssql.PurgeInactiveSubscriptions: Class
com.webmethods.jms.db.impl.mssql.PurgeInactiveSubscriptions removed

com.webmethods.jms.db.impl.mssql.RegisterDestination: Class
com.webmethods.jms.db.impl.mssql.RegisterDestination removed

com.webmethods.jms.db.impl.mssql.RegisterSubscription: Class
com.webmethods.jms.db.impl.mssql.RegisterSubscription removed

com.webmethods.jms.db.impl.mssql.UnregisterSubscription: Class
com.webmethods.jms.db.impl.mssql.UnregisterSubscription removed

com.webmethods.jms.db.impl.mssql.UpdateSubscriptions: Class
com.webmethods.jms.db.impl.mssql.UpdateSubscriptions removed

com.webmethods.jms.db.impl.mysql.EventDelivered: Class
com.webmethods.jms.db.impl.mysql.EventDelivered removed

com.webmethods.jms.db.impl.mysql.EventPoll: Class com.webmethods.jms.db.impl.mysql.EventPoll
removed

com.webmethods.jms.db.impl.mysql.EventSave: Class com.webmethods.jms.db.impl.mysql.EventSave
removed

com.webmethods.jms.db.impl.mysql.GetSqlTime: Class
com.webmethods.jms.db.impl.mysql.GetSqlTime removed

com.webmethods.jms.db.impl.mysql.PublishQueue: Class
com.webmethods.jms.db.impl.mysql.PublishQueue removed

com.webmethods.jms.db.impl.mysql.PurgeEvents: Class
com.webmethods.jms.db.impl.mysql.PurgeEvents removed

com.webmethods.jms.db.impl.mysql.PurgeInactiveSubscriptions: Class
com.webmethods.jms.db.impl.mysql.PurgeInactiveSubscriptions removed

com.webmethods.jms.db.impl.mysql.RegisterDestination: Class
com.webmethods.jms.db.impl.mysql.RegisterDestination removed

com.webmethods.jms.db.impl.mysql.RegisterSubscription: Class
com.webmethods.jms.db.impl.mysql.RegisterSubscription removed

com.webmethods.jms.db.impl.mysql.UnregisterSubscription: Class
com.webmethods.jms.db.impl.mysql.UnregisterSubscription removed

com.webmethods.jms.db.impl.mysql.UpdateSubscriptions: Class
com.webmethods.jms.db.impl.mysql.UpdateSubscriptions removed

com.webmethods.jms.db.impl.oracle.EventDelivered: Class
com.webmethods.jms.db.impl.oracle.EventDelivered removed

com.webmethods.jms.db.impl.oracle.EventPoll: Class com.webmethods.jms.db.impl.oracle.EventPoll
removed

com.webmethods.jms.db.impl.oracle.EventSave: Class com.webmethods.jms.db.impl.oracle.EventSave removed

com.webmethods.jms.db.impl.oracle.GetSqlTime: Class com.webmethods.jms.db.impl.oracle.GetSqlTime removed

com.webmethods.jms.db.impl.oracle.PublishQueue: Class com.webmethods.jms.db.impl.oracle.PublishQueue removed

com.webmethods.jms.db.impl.oracle.PurgeEvents: Class com.webmethods.jms.db.impl.oracle.PurgeEvents removed

com.webmethods.jms.db.impl.oracle.PurgeInactiveSubscriptions: Class com.webmethods.jms.db.impl.oracle.PurgeInactiveSubscriptions removed

com.webmethods.jms.db.impl.oracle.RegisterDestination: Class com.webmethods.jms.db.impl.oracle.RegisterDestination removed

com.webmethods.jms.db.impl.oracle.RegisterSubscription: Class com.webmethods.jms.db.impl.oracle.RegisterSubscription removed

com.webmethods.jms.db.impl.oracle.UnregisterSubscription: Class com.webmethods.jms.db.impl.oracle.UnregisterSubscription removed

com.webmethods.jms.db.impl.oracle.UpdateSubscriptions: Class com.webmethods.jms.db.impl.oracle.UpdateSubscriptions removed

com.webmethods.jms.db.impl.sybase.EventPoll: Class com.webmethods.jms.db.impl.sybase.EventPoll removed

com.webmethods.jms.db.impl.sybase.PublishQueue: Class com.webmethods.jms.db.impl.sybase.PublishQueue removed

com.webmethods.jms.db.impl.sybase.PurgeEvents: Class com.webmethods.jms.db.impl.sybase.PurgeEvents removed

com.webmethods.jms.um.UmJMSClient: Class com.webmethods.jms.um.UmJMSClient removed

com.webmethods.jms.um.UmJMSConnProvider: Class com.webmethods.jms.um.UmJMSConnProvider removed

electric.util.holder.ArrayOfbyteInOut: Class electric.util.holder.ArrayOfbyteInOut removed

electric.util.holder.ArrayOfbyteOut: Class electric.util.holder.ArrayOfbyteOut removed

com.webmethods.portal.bizPolicy.command.system.xml.XMLImport: Field OVERWRITE_PERMISSIONS_KEY has been removed, but it was previously a constant

com.webmethods.portal.service.dir.IDirService: Method 'public boolean supportsNestedGroups()' has been added to an interface

com.webmethods.caf.faces.application.CAFStateManager: Class com.webmethods.caf.faces.application.CAFStateManager removed

com.webmethods.caf.faces.application.CAFStateManager$TreeStructure: Class
com.webmethods.caf.faces.application.CAFStateManager$TreeStructure removed

com.webmethods.caf.faces.portlet.PortletViewFragmentPhaseListener: Class
com.webmethods.caf.faces.portlet.PortletViewFragmentPhaseListener removed

com.webmethods.caf.faces.portlet.PortletViewFragmentPhaseListenerWrapper: Class
com.webmethods.caf.faces.portlet.PortletViewFragmentPhaseListenerWrapper removed

com.webmethods.caf.faces.portlet.PortletViewHandler: Method 'protected void initResponse(javax.faces.context.FacesContext, javax.faces.component.UIViewRoot)' has been removed

com.webmethods.caf.faces.portlet.PortletViewHandler: Method 'protected void renderResponse(javax.faces.context.FacesContext, javax.faces.component.UIViewRoot)' has been removed

com.webmethods.caf.faces.render.html.command.CommandFormRenderer: In method 'protected java.lang.String getTagName()' the number of arguments has changed

com.webmethods.caf.faces.render.html.command.DisjointFormRenderer: In method 'protected java.lang.String getTagName()' the number of arguments has changed

com.webmethods.caf.faces.view.BaseViewHandler: Field STATE_KEY has been removed, but it was previously a constant

com.webmethods.caf.faces.view.BaseViewHandler: Method 'protected void initResponse(javax.faces.context.FacesContext, javax.faces.component.UIViewRoot)' has been removed

com.webmethods.caf.faces.view.BaseViewHandler: Method 'protected void renderResponse(javax.faces.context.FacesContext, javax.faces.component.UIViewRoot)' has been removed

com.webmethods.caf.faces.view.CafViewDeclarationLanguage: Field INJECT_STATE has been removed, but it was previously a constant

com.webmethods.caf.faces.view.CafViewDeclarationLanguage: Field NO_RENDER has been removed, but it was previously a constant

com.webmethods.caf.faces.view.CafViewDeclarationLanguage: Field STATE_KEY has been removed, but it was previously a constant

com.webmethods.caf.faces.view.CafViewDeclarationLanguage: Field VIEW_FRAGMENT has been removed, but it was previously a constant

com.webmethods.caf.faces.view.CafViewDeclarationLanguage: Field VIEW_FRAGMENT_CLIENT_ID has been removed, but it was previously a constant

com.webmethods.caf.faces.view.CafViewDeclarationLanguage: Return type of method 'protected void initResponse(javax.faces.context.FacesContext, javax.faces.component.UIViewRoot)' has been changed to javax.faces.context.ResponseWriter

com.webmethods.caf.faces.view.CafViewDeclarationLanguage: Method 'protected void renderResponse(javax.faces.context.FacesContext, javax.faces.component.UIViewRoot)' has been removed

com.webmethods.caf.faces.view.ViewFragmentPhaseListener: Class com.webmethods.caf.faces.view.ViewFragmentPhaseListener removed

10.0   Copyright Information

11.0   Support

Visit the [Empower website](#) to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the [TECHcommunity website](#) to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

MWS-RM-107-20201019

webMethods OneData 10.11 Readme

October 2021

This file contains important information you must read before using webMethods OneData 10.11. You can find system requirements, user documentation, and installation and upgrade instructions on the [Documentation website](#) or the [TECHcommunity website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0   Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0   Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

- ODE-6690
  Issues with the dependency analysis mechanism for the transfer metadata feature in OneData.
  Require the dependency analysis mechanism of the transfer metadata feature in OneData does not support the following functionalities:
  - Complex view
  - Metadata-only object
  - Remote snapshot
  There is currently no workaround for this issue.

- ODE-6137
  Issues when working with SQL server in OneData version 9.8.
  The following issues are observed when using SQL server with OneData 9.8:
  -    Change Request link is not displayed even when the object definition Show in Change Request is enabled.
  -    When **Enable Advanced Filtering?** column level user preference is changed to Enable and saved, the change is reverted to Disable.
  There is currently no workaround for this issue.

- ODE-5811
  Hook execution error occurs when a workflow rule includes insertion of a record and the record insertion requires approval.
  When a workflow rule includes a hook action to insert a record in an object, and the record insertion requires approval, the hook execution fails with an error.
  There is currently no workaround for this issue.

3.0   Usage Notes

This section provides any additional information you need to work with the current release of this product.

4.0   Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the Empower website for detailed information about fixes.

Release 10.11

- ODE_10.7_Fix1

- ODE_10.5_Fix7

- ODE_10.3_Fix2

Release 10.7

- ODE_10.5_Fix3

- ODE_10.3_Fix20

- ODE_10.1_Fix15

Release 10.5

- ODE_10.3_Fix12

- ODE_10.1_Fix14

Release 10.4

- ODE_10.1_Fix11

- ODE_10.2_Fix6

- ODE_10.3_Fix4

Release 10.3

- ODE_9.8_Fix15

- ODE_9.12_Fix9

- ODE_10.1_Fix9

- ODE_10.2_Fix5

Release 10.2

- ODE_9.9_Fix16
- ODE_9.12_Fix7
- ODE_10.0_Fix3
- ODE_10.1_Fix5

Release 10.1

- ODE_10.0_Fix2
- ODE_9.12_Fix3
- ODE_9.10_Fix2
- ODE_9.9_Fix12
- ODE_9.8_Fix13

Release 10.0

- ODE_9.8_Fix9
- ODE_9.9_Fix9

Release 9.12

- ODE_9.8_Fix11
- ODE_9.9_Fix5
- ODE_9.10_Fix1

Release 9.10

- ODE_9.7_Fix5
- ODE_9.8_Fix7
- ODE_9.9_Fix2

5.0 Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Release 10.5

- ODE-10489

  OneData must support JSON POST actions to a child entity that is present at multiple and different hierarchy levels of the conceptual object.
  This issue is now resolved. A new property, onedata.webservice.rest.json.enableSupportForDataObjectRepetitionInHierarchy, is introduced to enable JSON POST actions on a child entity or data object that appears at multiple and different hierarchy levels of a parent object.
  The valid values are:
  - *true*: Enables JSON POST actions on child entities or data objects that appear at different levels of the parent object hierarchy.
  - *false*: Default. Disables JSON POST actions on child entities or data objects that appear at different levels of the conceptual object hierarchy.

- ODE-10551
  OneData does not support column-level privileges and row filter configurations at role and user levels for remote objects.
  This issue is resolved. Now, OneData offers following support for remote objects:
  - Setting column-level privileges at user and role levels.
  - Configuring row filter for all transaction types except for Workflow Approval at user and role levels.

Release 10.4

- ODE-9624
  In the Job Center, Archive/Purge Job fails.
  This issue is resolved.

- ODE-9593
  Issues with summary-level approve actions and the record details page of the workflow pipeline in the new Data Steward user interface.
  The following issues are observed in the workflow pipeline of the new Data Steward user interface:
  - In the record details page:
    - The "Old record values" panel is empty for supertype data objects.
    - OneData does not display supertype record details for delete record actions.
  - In the level 1 and level 2 summary screens, when the property onedata.workflow.workflowaction.mode value is 1 and multiple record transactions are selected for a workflow action (approval or rejection):

- If the workflow action fails a few of the selected records, the action fails for all selected records.
   - When the workflow action is successful for only some of the records, an error message appears for the failed action. However, the workflow summary screen continues to display even those records for which the workflow action was successful. The screen should refresh to display only those record transactions which failed the workflow action.
These issues are resolved.

- ODE-9592
   Issues with the workflow pipeline in the new Data Steward user interface.
   In the new Data Steward user interface, the following issues are observed in the workflow pipeline:
   - OneData displays an error for workflow transactions for conceptual objects.
   - When viewing the workflow pipeline grid in the Mozilla Firefox browser, OneData does not display the first row of the workflow log.
   This issue is resolved.

- ODE-9590
   In the reference window of the new Data Steward user interface, filters for the numeric columns and multi-select columns is not working correctly.
   This issue is resolved.

- ODE-9584
   In the new Data Steward user interface, on browsing to a secondary axis object record in a network recursive hierarchy, the breadcrumb for the secondary axis object record displays the Java class instead of the record description.
   This issue is resolved.

- ODE-9572
   In the Data Steward user interface, while expanding the network recursive tree nodes, the horizontal scroll bar that enables users to scroll through the object details does not appear.
   This issue is resolved.

- ODE-9571
   In the new Data Steward user interface, on browsing to a secondary axis object record in a network recursive hierarchy, the breadcrumb for the secondary axis object record displays the Java class instead of the record description.
   This issue is resolved.

- ODE-5970
   Issue when deleting objects and interchange mapping with SVC log table entries, and Export to Excel in OneData 9.8.
   The following issues are observed in OneData 9.8:
   -    An exception occurs when a user attempts to delete an object which has entries in SVC log tables. An identical issue also occurs when deleting an Interchange Mapping profile which has entries in SVC log tables.
   -    Using Export to Excel option results in in an error on an Oracle server. Additionally, when using the SQL server, the option is not visible to users.
   These issues are resolved.

- ODE-9556

  In the record screen accessed from the workflow pipeline list of the new Data Steward user interface, the "Old record values" panel is empty when the record has either multi-select columns or drop-down value columns.

  This issue is resolved.

- ODE-9410

  The search box and search results in the new Data Steward user interface are not rendered correctly due to browser compatibility issues.

  Due to browser compatibility issues, the following problems are observed in the Data Steward user interface:

  - The search box is not aligned correctly in Mozilla Firefox.

  - The layout of the search result is inconsistent in Internet Explorer version 11.

  These issues are resolved.

Release 10.3

- ODE-5970

  Issue when deleting objects and interchange mapping with SVC log table entries, and Export to Excel in OneData 9.8.

  The following issues are observed in OneData 9.8:

  - An exception occurs when a user attempts to delete an object which has entries in SVC log tables. An identical issue also occurs when deleting an Interchange Mapping profile which has entries in SVC log tables.

  - Using Export to Excel option results in in an error on an Oracle server. Additionally, when using the SQL server, the option is not visible to users.

  This issue is resolved.

Release 10.2

- ODE-6363

  Issues in XML response matching with defined XSD.

  The following issues are observed in XML responses for defined XSDs:

  - BLOB columns in objects are missing in XML responses.

  - Order of reference fields in XML responses is different from the order in the XSDs defined.

  - In network recursive structures, occasionally the XML-XSD validation fails when a child node is present under multiple parent objects.

  These issues are resolved.

- ODE-8158

  In the New UI (Search) record data grid, issues with the **More Options** link in the column filter and application of filters on the first column for deleted records.

  In the New UI (Search), the following issues are observed in the record data grid:

  - The user interface does not respond on clicking the More Options link in the column-level filter pop-up window.

- In the deleted records list, the filters applied on the first column do not work.
These issues are resolved. The 'More Options' link is removed because the functionality is not supported in this release.

- ODE-7853
OneData applies the child filter to conceptual object records incorrectly.
In a conceptual object, OneData applies the child filter incorrectly when the user selects and applies the child filter to child objects that are more than three levels from the root. Instead of returning root records that satisfy the child filter, OneData returns all records from the root.
This issue is resolved.

- ODE-7609
The new consolidated hierarchy view user interface does not support internationalization (i18n).
This issue is resolved.

- ODE-6737
OneData workflows do not work if the repository is an Oracle Database version 12c.
When OneData is set up to work with Oracle Database version 12c, issues are observed in OneData workflows, conceptual objects. The issues appear to be caused by the new adaptive optimizer introduced in Oracle 12c. The optimizer, which dynamically rewrites queries for better performance, when working with OneData causes issues in some query results.
This issue is resolved.

- ODE-5938
Error when inserting CLOB column data using REST services.
The following error occurs when inserting CLOB column data through REST services:
Total records inserted/updated: 0. The process finished successfully. Elapsed time: 0 s
This issue is resolved.

- ODE-5445
Issues in filtering of non-ASCII text in objects for reports.
If an object has Char data type columns with non-ASCII text, the following issues are observed:
- Filtering on reports for the non-ASCII text does not provide any result.
- In the report definition, the non-ASCII text is corrupted and displays "?????."
This issue is resolved.

- ODE-4668
hookInput.userid property in hooks converts user IDs in lower case to upper case.
If user IDs have lower case characters, when hooks containing the hookInput.userid property converts all the lower-case characters to upper case. For example, the user ID is BSmith converts it to BSMITH.
This issue is resolved.

Release 10.1

- ODE-5662

Require support for data audit for network recursive objects in Nova mode.
Currently, in Nova mode, OneData does not support data audit for network recursive objects.
Require OneData to support this feature.
This issue is resolved.

Release 10.0

- ODE-7213
  OneData REST APIs that load data do not support the JSON format on the Linux operating system.
  This issue is resolved.

- ODE-6780
  OneData generates an SQL error when users attempt to clear a numeric column.
  This issue is resolved.

- ODE-6709
  In Default mode, OneData displays command hooks from the primary axis in the secondary axis view.
  In Default mode, when using command hooks along with the recursive trees, OneData continues to display the command hooks assigned to the primary axis while users navigate through the secondary axis. For example, Recursive Product Category Tree with Category-Product relationship as the secondary axis. When users switch to the secondary axis, command hooks assigned to the primary axis should be hidden. The current user interface behavior results in unnecessary error messages and confusion caused when users use command hooks meant for the primary axis view for object records displayed in the secondary axis.
  This issue is resolved.

- ODE-6706
  OneData metadata transfer does not delete objects in the target repository when they have been deleted from the source repository.
  This issue is resolved.

- ODE-6697
  The OneData migration utility points to the java variable of the system environment instead of the Software AG jvm.
  This issue is resolved.

- ODE-6307
  Cannot define alternate key constraints for columns which have an XML element name defined.
  If a column has an XML element name defined, the message body includes the XML element name. However, when a user attempts to define an alternate key constraint for the column based on the element name, an error appears that the column does not exist.
  This issue is resolved.

- ODE-5798
  OneData does not handle update of a primary key using an alternate key through a REST service

call.

Currently, when users attempt to update a primary key through an alternate key using a REST service call, OneData incorrectly sends a status complete response even though the update is not done. In such a scenario, OneData should respond with an error and provide the correct status for the action requested in the REST call.

There is issue is resolved.

Release 9.10

- ODE-6308

  Create Object screen is blank when CSRF protection is enabled.

  If Cross-Site Request Forgery (CSRF) protection is enabled, Create Object screen appears blank.

  This issue is resolved.

- ODE-6305

  Column level and constraint level metadata are not included in full-text search.

  While searching metadata for data that match the search string in order to return the search results for category Objects, the full-text search engine does not consider column names, column captions, and constraint metadata objects.

  This issue is resolved.

- ODE-6282

  In Nova mode, the Rules Engine skips non-editable columns in OneData version 9.8.

  The Rules Engine, in Nova mode, skips non-editable columns. Consequently, if users define a rule that requires update to a non-editable column, the rule fails and results in an error. This issue occurs in OneData version 9.8.

  This issue is resolved.

- ODE-6262

  Application of internationalization for metadata is inconsistent.

  Though Data Manager screens for workflow and hooks readily inherit localized definitions for metadata, the localized definitions are not applied to certain columns and table captions.

  This issue is resolved.

- ODE-6261

  Issues in New UI (Search) user interface.

  The following issues are observed in the New UI (Search) user interface:

  - When record and column names contain special characters, the details view window is blank and an error occurs.
  - The last updated time for records in the search results screen is incorrect. This time should match the actual last update time displayed for the records in the older OneData user interface
  - In the Release area, OneData fails to display the view details screen when the user clicks on the record or column name in the search results screen.

  These issues are resolved.

- ODE-6260

Issues in data access authorization in the New UI (Search) user interface.
In the New UI (Search) user interface, user authorization to access and edit data does not work as expected:
- The search result displays records and object information that the users are not authorized to view.
- In the view details window, users are able to access edit records for which they do not have update privileges.
- The view details window are able to view records despite row filter restrictions.
These issues are resolved.

▪ ODE-6213
Require OneData to support deep link when Kerberos-based Single Sign On (SSO) is configured.
Currently, customers cannot use the deep link feature if they configure Kerberos-based SSO.
This issue is resolved. The two changes to accommodate this requirement are:
- New URL syntax is introduced. Use the following URL syntax when using Kerberos-based SSO:
http://<Hostname>:<Port>/<Context_Root>/<SSO_RedirectorServlet>/<Repository_ID>/<Project_Name>/<Object_Type>/<Object_Name>
For example:
http://localhost:1099/onedata/SSORedirectorServlet/ODDEV/Standard%20Project/DO/SP%5FCHILD
- The existing deep link URL syntax is modified to the following. Use this syntax if you are not using Kerberos-based SSO:
http://hostname:port/onedata/dmdirect/repository/project/DO/Objectname?filter=Column_Name=value

▪ ODE-6156
Issues with post hook processing in customer data integration and data interchange mapping.
In the Consolidation MDM module, the following issues are observed in post hook processing:
- For consolidation gold objects, post hook processing fails to start even though OneData executes customer data integration successfully.
- Consider a conceptual object with 3 entities - Country, State, and City. Each entity has its own post hook configured. During data import through an interchange mapping, an exception occurs when processing the City entity. In this scenario, any post hook processing for the Country and State entities should roll back. Currently, this roll back of the post hook processing fails to occur.
These issues are resolved.

▪ ODE-6148
OneData ignores empty fields when generating the output for scheduled reports.
When scheduled reports contain empty fields, OneData removes the empty spaces for the empty fields and aligns all the data that comes after to the left. Consequently, the report output is incorrect. The expected behavior is that OneData should maintain empty spaces for empty fields, so that all data is appears in the correct field alignment.
This issue is resolved.

▪ ODE-6115
Columns containing only spaces are treated as NULL value columns during data import.

When importing data from a remote database, OneData treats columns containing only spaces as NULL value columns. This issue occurs even though the onedata.datamanager.TrimLeadingAndTrailingSpacesInDataValuesInNovaMode.enabled property is set to false.

This issue is resolved.

- ODE-6052

  OneData does not insert audit data when a row containing columns with lengthy text is purged from Data Manager.

  When the user purges a record containing rows with very lengthy text (for example, over 4000 characters), OneData fails to insert an audit data entry for the purged record in the data audit table. This issue is resolved. OneData inserts audit data in the audit data table even when the purged records contain rows with very lengthy text. The audit data is available in XML format in View > Browse > Record > View > Audit Trail in Data Manager or in Administer > Logs > Data Audit.

- ODE-6047

  XML response does not match XML schema definition (XSD).

  The XML response received from the REST call does not match the XSD defined in OneData. This issue is resolved. However, there are few known issues in the edge cases described in ODE-6363.

- ODE-3647

  Workflow processing fails while performing a search-and-replace operation in self recursive and network recursive hierarchy structures.

  While performing a search-and-replace operation in self recursive and network recursive hierarchy structures, the following error occurs in workflow processing:

  java.lang.NullPointerException Encountered

  This issue is resolved.

- ODE-3350

  The row filter does not work as expected for date and timestamp columns that are part of a primary key.

  Users are unable to view the values of date and timestamp columns in row filters after either the date or timestamp format is modified when:

  - The date and timestamp columns are part of a primary key.

  - And, the values of the date and timestamp columns were set in row filters before the date or timestamp format was modified.

  This issue is resolved.

- ODE-3349

  OneData does not validate values entered in timestamp type column.

  When a user enters a value in the timestamp type column of Data Manager, OneData does not validate the value.

  This issue is resolved.

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.11

- *Administering webMethods OneData* is updated for the following changes:

    - Renamed OneData to webMethods OneData.

    - Added new configuration properties:

        - onedata.datamanager.filter.ignoreColumnCount

        - onedata.security.skipValidation.emailHeaderAndFooter

        - onedata.datamanager.saveAndDeleteFilter.hideForAnonymousUser

        - onedata.datamanager.useCustomNumericFormatter

- *Developing for webMethods OneData* is updated for the following changes:

    - Renamed OneData to webMethods OneData.

- *Implementing webMethods OneData* is updated for the following changes:

    - Renamed OneData to webMethods OneData.

    - Added additional column qualifiers

        - Insert Through Hook When Hide In All.

        - Hide In Update Bulk.

        - Enable HTML Evaluation

        - Enable HTML Evaluation for Caption

        - Show In DQ Manual Match Screen

- *webMethods OneData Consolidation MDM Guide* is updated for the following changes:

    - Renamed OneData to webMethods OneData.

- *webMethods OneData User's Guide* is updated for the following changes:

    - Renamed OneData to webMethods OneData.

    - Conditions when the Level in Workflow Approval is 0.

Release 10.7

- *Administering webMethods OneData* is updated for the following changes:

  - Chapter 7 "Asynchronous Messaging" is modified to describe the feature to "Enable Hide In Service Layer".

  - Chapter 5 "Installing and Configuring Elasticsearch" is modified to describe the installation of latest version of Elasticsearch.

- *Developing for webMethods OneData* is updated for the following changes:

  - Chapter 4 "Rest Web Services" is modified to describe the feature to "Enable Hide In Service Layer".

  - Restructured Chapter 3 "API Functions and Web Services in OneData" and Chapter 4 "Rest Web Services".

- *Implementing webMethods OneData* is updated for the following changes:

  - Chapter 1 "Objects in OneData", Chapter 2 "Managing an Object Structure" is modified to describe the feature to "Enable Hide In Service Layer".

- *webMethods OneData Consolidation MDM Guide* is updated for the following changes:

  - Restructure the guide.

  - Enhanced data quality configuration

  - Added use cases.

Release 10.5

Chapter 5 "Installing and Configuring Elasticsearch" of the *Administering webMethods OneData* is modified to describe a different mechanism to install Elasticsearch.

Release 10.4

- *Administering webMethods OneData* is updated for the following changes:

  - Chapter 3 "Customizing OneData" is modified to include information about the new security headers properties in the new property file (http-resp-headers.properties).

  - The appendix "OneData Configuration Properties" includes new properties onedata.administration.ui.tabset.enableloadingindicator, onedata.workflow.enableSaveRecordOnRequestInfo, and onedata.workflow.enableAutoApproveFromCreatorInitiatedLevel.

- Chapter 5 "Installing and Configuring Elasticsearch" is modified to remove the support for Elasticsearch installation through the Internal Data Store node of the Software AG Installer. The Elasticsearch version supported is also updated.

- *webMethods OneData User's Guide* is updated with the following changes:

  - In Chapter 10 "Working with the Data Steward User Interface":

    - Includes information on how to view constituent objects of conceptual objects that are in the workflow pipeline, and how to approve or reject pending related records.

    - Includes information on how to use the hover-over menu options for root objects and constituent object nodes of conceptual objects in the consolidated object hierarchy view.

    - Includes information on how to use the modified Delete, Restore, and Purge options in the consolidated object hierarchy view.

    - Includes information on how to global search of the OneData database for records and folders by using the Data Explorer.

  - Chapter 1 "Introduction to OneData" is modified to remove the support for Network recursive objects in Default mode and the removal of Parent-child, advanced parent-child, and tree hierarchy views in Default mode for all conceptual objects, except self recursive object structures.

  - In Chapter 7 "Working with Conceptual Objects in Default Mode" is modified to indicate that the following functionalities are not supported:

    - Parent-child, advanced parent-child, and tree hierarchy views in Default mode for all conceptual objects, except self recursive object structures.

    - Network recursive objects in Default mode.

  - Chapter 13 "Managing Workflow" now includes information about the new workflow status *ASSIGNED (Replied to Info)*.

- Chapter 1 "Objects in OneData" in *Implementing webMethods OneData* is updated to indicate that the following functionalities are not supported:

  - Parent-child, advanced parent-child, and tree hierarchy views in Default mode for all conceptual objects, except self recursive object structures.

  - Network recursive objects in Default mode.

- Chapter 4 "REST Web Services" in *Developing for webMethods OneData* includes a new section "Managing Jobs through REST Web Services," which details how export and deployment job execution can be controlled by using RESTful web services.

- The *webMethods OneData Consolidation MDM Guide* includes the following changes:

- Chapter 5 "Working with Consolidation Projects" includes a new section "Configuring a Consolidation (Staging) Object for Cleansed Records Pending Review," which describes how you can view manually cleansed records that are pending review in the **My Data Quality Inbox**.

- Chapter 9 "Multiple Gold Mapping" includes information about a new column **Manual Cleanse Pending Review Record Count**.

Release 10.3

- *Administering webMethods OneData* is updated for the following changes:

  - New metadata data audit fields in Chapter 10 "Working with Metadata."

  - European Union General Data Protection Regulation (GDPR) adoption.

- Chapter 10 "Working with the New User Interface" of the *webMethods OneData User's Guide* includes information on how to use the network recursive objects and workflow pipeline.

Release 10.2

- The *Working with webMethods OneData MDR* guide is removed.

- *Administering webMethods OneData* is updated for the following changes:

  - New and updated properties in Appendix B "OneData Configuration Properties".

  - The latest Elasticsearch version is updated in Chapter 5 "Installing and Configuring Elasticsearch."

- The *webMethods OneData Consolidation MDM Guide* is updated to include Locate Country and Locate Threshold information menu options.

- Chapter 10 "Working with the New User Interface" of the *webMethods OneData User's Guide* includes all the changes to the Data Steward interface and the consolidated hierarchy changes.

Release 10.1

- Chapter 4, "SOAP Web Services" has been deleted from the *Developing for webMethods OneData* guide.

Release 10.0

- *Developing for webMethods OneData* includes significant restructuring of REST web services information to accommodate the support for JSON REST APIs.

- *Administering webMethods OneData* includes significant restructuring of single sign on information to accommodate the support for SAML SSO.

Release 9.12

- *webMethods OneData Consolidation MDM Guide* includes a new chapter " Using REST APIs for Data Quality Consolidation".

7.0   Terminology Changes

This section lists any terminology changes.

Release 10.3

- The **New UI** user interface from this release onwards is referred to as the *Data Steward user interface* or the *new Data Steward* user interface.

8.0   Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 10.11

Added Item	Description
onedata.datamanager.filter.ignoreColumnCount	Enables you to display constraint caption as column label for reference columns in the normal filter and advanced filter.
onedata.security.skipValidation.emailHeaderAndFooter	Allows you to skip the security validation for the Standard email header and the New user notification email footer.
onedata.datamanager.saveAndDeleteFilter.hideForAnonymousUser	Enables the anonymous user to perform Save Filter and Delete Filter operations.
onedata.datamanager.useCustomNumericFormatter	Allows users to determine whether custom numeric formatter must be used for numeric columns in Data Manager.

Deprecated Item	Replacement, if any
OneData Anywhere	None.

Release 10.7

Added Item	Description
onedata.datamanager.bulkupdate.subtype	Enables bulk update for subtypes when performed on Supertype-subtype objects in the Conceptual Object context.
onedata.datamanager.nr.copyassibling	Specifies if network recursive tree 'copy' functionality to copy node as child of the selected node or in the same level as the selected node.
onedata.security.cacheControlDirective	Determines the usage of cache control directive in OneData.
onedata.webservice.rest.post.returnColumn.enableObjectNameRepetitionInTags	Determines the appearance of the object name in the REST response when returnColumns is enabled.
onedata.datamanager.reports.leftAlignMandatoryColumn	Controls the alignment behavior of text format fields in excel for Summary Report.
onedata.datamanager.excludeInputValidation.withPattern	Controls the restriction of SQL Injection and Cross site scripting values for specified columns where there are formatted texts.
onedata.datainterchange.useCustomNumericFormatter	Determines whether custom formatter is to be used for numeric columns.
index.mapping.total_fields.limit	Added this to analyzer.txt to control the number of columns in the index.

Changed Item	Replacement, if any
onedata.search.elasticsearch.indexanalyzer	Changed from autocomplete_analyzer to autocomplete.
onedata.exceptionqueue.fetchsize	Changed from 200 to 50.
onedata.exceptionqueue.numberofcolumns	Changed from 50 to 200.

Removed Item	Replacement, if any
onedata.search.elasticsearch.server.host	Removed from onedata.properties
onedata.search.elasticsearch.server.tcp.port	Removed from onedata.properties
ngram_index_analyzer	Removed from analyzer.txt

Release 10.5

Added Item	Description
onedata.dataquality.manualmatch.popupwindow.enablenewalignment	Use this property to enable the display of data quality match window relative to the selected row in Data Manager grid. You can find this property in the *onedata.properties* file.
onedata.webservice.rest.ignore.HideInDisplayCol.In.Schema	Use this property to determine whether Column selected as Hide In Display is to be displayed in the REST Schema. You can find this property in the *onedata.properties* file.
onedata.dataquality.useGoldObjectIdFromProjectObjectMapping	Use this property to enable OneData to use the metadata of the Gold object mapped in the project-object mapping instead of the base object, while rendering the manual match pop-up. You can find this property in the *onedata.properties* file.

Added Item	Description
onedata.webservice.rest.enableXMLEscapeInJSON	Use this property to determine whether special XML characters must be escaped for JSON response data. You can find this property in the *onedata.properties* file.
onedata.dataquality.showAdditionalMatchingInformation	Use this property to determine whether additional columns for matching such as, windowkeys and matcher details should be displayed in the Manual Match window. You can find this property in the *onedata.properties* file.
onedata.webservice.rest.json.enableSupportForDataObjectRepetitionInHierarchy	Use this property to enable JSON POST actions on a child entity or data object that appears at multiple and different hierarchy levels of a parent object. You can find this property in the *onedata.properties* file.
onedata.reports.enableRowFilter	Use this property to determine whether the row filter is applied to a user report. You can find this property in the *onedata.properties* file.
onedata.dataquality.enableCLOBColumnProcessing	Use this property to enable updates to the CLOB columns during data quality processing. You can find this property in the *onedata.properties* file.
onedata.datamanager.displaygrid.enableViewEditCOLevelTreeHierarchy	Use this property to determine whether the level tree hierarchy of conceptual objects is available for viewing and editing (based on user privilege) in the Data Manager grid. You can find this property in the *onedata.properties* file.
onedata.datainterchange.survivorship.subscribingSystemCountForPriority	Use this property to configure the priority count needed for survivorship mapping. You can find this property in the *onedata.properties* file.
onedata.notification.sendWelcomeMailOnUserCreation	Use this property to disable the welcome email notification. You can find this property in the *onedata.properties* file.

Added Item	Description
Enhancements to the Manual Match Screen to display more columns.	Use the column qualifier 'Show In DQ Manual Match Screen' to display more columns than only the columns used in the matching process. You can find this property in the *onedata.properties* file.
Support for disabling cleansing in the DQ process for records already in cleansed status	OneData now allows you to skip the cleansing process for records that are already cleansed outside of the DQ process. This avoids redundant cleansing as part of the OneData DQ process. You can find this property in the *onedata.properties* file.
Support for full-text search in the OneData	In addition to the existing database search capabilities, the menu option **View** > **Search** in OneData is enhanced to support full-text search. You can find this property in the *onedata.properties* file.

Removed Item	Replacement, if any
Full-text search in the new Data Steward user interface	The Elasticsearch-based full-text search is now enabled under the **View >Search**.
Data Explorer in the new Data Steward user interface for browsing objects	In the current Nova user interface, use **Manage > Manage Data** and **View > Browse**.
Workflow management in the new Data Steward user interface	In the current Nova user interface, use **Manage > My Workflow Inbox** or **View > Collaboration Queues > Workflow Items.**
Tree hierarchy view in the new Data Steward user interface	In the current Nova user interface, use **Manage > Manage Data** and **View >Browse.**
Consolidated object hierarchy view in the new Data Steward user interface	In the current Nova user interface, use **Manage > Manage Data** and **View >Browse**.

Release 10.4

Added Item	Description

Added Item	Description
http-resp-headers.properties file	Use this new file to set the following web browser security header properties: ▪ eseanable-Referrer-Policy ▪ enable-Strict-Transport-Security ▪ enable-X-FRAME-OPTIONS This file is available in the \<Software AG_directory>\profiles\ode\workspace\webapps\WEB-INF\config\security\headers directory. For information on the option, see *Administering webMethods OneData*.
Consolidated hierarchy workflow view	Use this view to view the complete hierarchy structure of conceptual objects in the consolidated object hierarchy flow with a right panel which displays all constituent object nodes and related child nodes in a tree hierarchy and the left pane displays the details all constituent object nodes and related child nodes that are pending approval. You can approve or reject record transactions only in the details view. For information on the option, see *webMethods OneData User's Guide*.
Data Explorer search	The Data Explorer browse screen allows you to directly search for records and folders directly from the database. For information on the option, see *webMethods OneData User's Guide*.

Added Item	Description
onedata.administration.ui.tabset.enableloadingindicator	Use this property to enable the data loading indicator in the menu option tabs of OneData.
	For information on the option, see *Administering webMethods OneData*.
Restore button beside deleted records in the object record table for conceptual objects in the Data Steward user interface	Use this as an alternative to the **Restore** button that appears above the object record table.
	For information on the option, see *webMethods OneData User's Guide*.
Hover-over menu for root objects of network recursive objects in the tree panel of the Data Steward user interface	Use this hover-over menu to add new records to root objects or delete root object hierarchies of root objects of network recursive objects.
	For information on the option, see *webMethods OneData User's Guide*.
Hover-over menu for child objects of network recursive objects in the tree panel of the Data Steward user interface	Use this hover-over menu for child objects of network hierarchy objects to perform the following actions:
	▪ Add new records to child objects
	▪ Delete child object hierarchies
	▪ Navigate through child object records with pagination controls
	For information on the option, see *webMethods OneData User's Guide*.
onedata.workflow.enableAutoApproveFromCreatorInitiatedLevel	Use this property to enable auto-approval of records at Level 1 if the workflow creator approved the record at Level 0.
	For information on the option, see *Administering webMethods OneData*.
onedata.workflow.enableSaveRecordOnRequestInfo	Use this property to enable updates to any record attribute when a record is pending update action approval at Level 0 and is assigned for information (RequestInfo).
	For information on the option, see *Administering webMethods OneData*.

Added Item	Description
Cleansing Configuration button and window	Use this button in the Project-Object Mapping screen to view the Cleansing Configuration window. In this window, select the matcher project in the **Data Quality Steward Group** field, and select Notify in the **Notification Option** field.
	This configuration enables the display of the new **Manual Cleanse Pending Review Record Count** column in the **My Data Quality Inbox** screen table.
	For information on the option, see *webMethods OneData Consolidation MDM Guide*.
Manual Cleanse Pending Review Record Count column in the **My Data Quality Inbox** screen table	Use this new column to view any record that is pending manual cleanse. Click **Count** to view the records in Data Manager screen or specify a filter.
	For information on the option, see *webMethods OneData Consolidation MDM Guide*.
onedata.dataquality.rerunmatchingfordataload.enable	Use this property to enable the rerun of data quality matching in data loads.
	For information on the option, see *Administering webMethods OneData*.
onedata.datamanager.bulkupdate.partialcommit.enabled	Use this property to enable partial commit of data for bulk updates.
	For information on the option, see *Administering webMethods OneData*.
onedata.datamanager.bulkupdate.batchcount	Use this property to enable partial commit of data for bulk updates.
	For information on the option, see *Administering webMethods OneData*.
onedata.datamanager.bulkupdate.batchcount	Use this property to specify the number of records to process in a batch of the Update Bulk job. The default value is 100.
	For information on the option, see *Administering webMethods OneData*.

Added Item	Description
onedata.dataquality.manualmatch.popupwindow.enablenewalignment	Use this property to display the Data Quality match popup window relative to the selected row in Data Manager grid. For information on the option, see *Administering webMethods OneData*.

Deprecated Item	Replacement, if any
Full-text search in the new Data Steward user interface	The Elasticsearch full-text search under **View >Search** in a future release in the current Nova user interface.
Data Explorer in the new Data Steward user interface for browsing objects	The links **Manage > Manage Data** and **View > Browse** in the current Nova user interface.
Workflow management in the new Data Steward user interface	The links **Manage > My Workflow Inbox** or **View > Collaboration Queues > Workflow Items** in the current Nova user interface.
Tree hierarchy view in the new Data Steward user interface	The links **Manage > Manage Data** and **View >Browse** in the current Nova user interface.
Consolidated object hierarchy view in the new Data Steward user interface	The links **Manage > Manage Data** and **View >Browse** in the current Nova user interface.
New UI Preview for Data Manager in Nova mode	None.
Edit Hierarchy option in the Nova **Manage Data** grid to view the consolidated hierarchy in a single screen, based on the new Data Steward user interface	None.

Deprecated Item	Replacement, if any
Java applet-based functionalities (**Show Data Model**, **Show Data Hierarchy**, **Show Workflow Model**)	None.
Data Quality stored procedure hooks	Data Quality Java hooks.

Removed Item	Replacement, if any
Support in Default mode for conceptual objects with non-recursive (level) and network recursive hierarchies	Support for the functionalities in the current Nova user interface using the links **Manage > Manage Data** and **View >Browse**.

Release 10.3

Added Item	Description
Service Layer Log	Use this new **Enable Audit?** field option in the **Metadata Audit Configuration** tab to enable audit logging for any metadata changes at the service layer for all inbound service requests through Interchange Mapping like REST, JMS and Import jobs.
	For information on the option, see *Administering webMethods OneData*.
Workflow	Use this new **Enable Audit?** field option in the **Metadata Audit Configuration** tab to enable audit logging for workflow transactions executed in the OneData objects.
	For information on the option, see *Administering webMethods OneData*.
Change Request	Use this new **Enable Audit?** field option in the **Metadata Audit Configuration** tab to enable audit logging for change requests to OneData objects.
	For information on the option, see *Administering webMethods OneData*.
Service Layer Log	New job step in Job Center.
Workflow log	New job step in Job Center.
Change Request Log	New job step in Job Center.

Added Item	Description
OneData Property Configuration	On the menu bar, access this new menu option from **Administer > System > OneData Property Configuration**.
	Instead of manually updating the onedata.properties file, use this user interface to manage OneData properties. The properties are categorized according to their functional purpose in separate tabs.
	For information on the menu option, see *Administering webMethods OneData*.
onedataProperty.xml	This file controls how OneData properties are displayed in the new **OneData Property Configuration** screen.
	This file is available in the following directory:
	<Software AG_directory>/profiles/ODE/bin/onedata/config
	Important: Do not modify this file.
onedata_bkup_*<yyyy_mm_dd>*.properties	New OneData properties backup file created when users modify properties in **Administer > System > OneData Property Configuration**.
	This file is created in the following directory:
	<Software AG_directory>/profiles/ODE/temp
Workflow	New tab in the Data Steward user interface provides multiple screens that help you to manage your workflow pipeline using the following tabs:
	▪ **My Inbox**
	▪ **My Workflow Transactions**
	▪ **My Admin Inbox**
	For information on the **Workflow** tab in the Data Steward user interface, see *webMethods OneData User's Guide*.

Added Item	Description
Self recursive object hierarchy	Use the Data Steward user interface to view self recursive structures of conceptual objects.
	For information on how to view the self recursive structure in the Data Steward user interface, see *webMethods OneData User's Guide*.
onedata.audit.configuration.criticalauditspurge.enable	Use this new property to enable purge options for service layer, workflow, and change request logs. This option controls if:
	▪ The **Service Layer Log**, **Workflow**, and **Change Request** options appear for the **Enable Audit?** field in the **Metadata Audit Configuration** tab of System Properties. Screen.
	▪ The **Service Layer Log**, **Workflow Log**, and **Change Request Log** job steps in the Job Center.

Removed Item	Replacement, if any
Input XSLT File (Optional)	None.
XSLT Templates (Optional)	None.
XSLT File	None.
XSL Definition	None.
XSL Definition (**Save Job Step Definition** field)	None.

Deprecated Item	Replacement, if any
ABAC functionality	None.
Netrics Matching Engine	None.
Nova Echo mode	None.
MashZone dashboard	None.
Trillium Metabase Server for data cleansing	None.
Integration Server as data quality server	None
Metamap	None.

Deprecated Item	Replacement, if any
B2B template	None.
ARIS data import	None.
Default mode	None.

Release 10.2

Added Item	Description
Add Object Subtype Name	Use this screen when adding object subtype to supertype subtype constructs in the new Data Steward user interface (formerly referred to as New UI).
Cleansing Rules	New menu option under **Data Quality > Rules**.
Data Quality	New system object, with options to manage folders and objects.
Manage Folders	Use this button under the new system object, Data Quality, to manage folders.
Manage Objects	Use this button under the new system object, Data Quality, to manage objects.
Rules	On the Menu toolbar, this option is available under **Define > Data Quality**. It has two options nested under it: **Matching Rules** and **Cleansing Rules**.
Cleansing Rules	On the Menu toolbar, this option is available under **Define > Data Quality > Rules**. It has two options nested under it: **Matching Rules** and **Cleansing Rules**.
Locate Country	New screen that allows you to define the list of countries that Locate supports. It is available under on the Menu toolbar, this option is available under **Define > Data Quality > Rules > Cleansing Rules > Locate Country**.
Locate Threshold Mappings	New screen that allows you to define thresholds for each Locate country. It is available under on the Menu toolbar, this option is available under **Define > Data Quality > Rules > Cleansing Rules > Locate Threshold Mappings**.

Added Item	Description
onedata.dataquality.locate.validAVCCodes	Use this property to list specific Locate address verification codes (with # as the delimiter) that OneData must consider as valid when cleansing a record. For more details, see Administering webMethods OneData.

Deprecated Item	Replacement, if any
Default workflow	None.
Default hooks	None.
System Reports	None.
XSLT capabilities	None.
SOAP support	None.
Java RMI	None.
Hierarchy Management package/SQL package	None.
XML formats in Data Interchange Import, Export, and JMS	None.
Broker support	None.

Changed Item	Description
onedata.webservice.rest.foreignKeyRelatedDescription.format	This property includes a new value 2. If you use this value, the JSON and XML GET response includes multi-column foreign key description with unique tags containing the child attributes as an object structure or a simple structure.
XML Element Name	In the Object Definition screen, this field name is changed to **JSON/XML Element Name**.
Project Mapping	On the Menu toolbar, this option is moved up one level in the navigation: **Define > Data Quality > Project Mapping**. It was previously under **Define > Data Quality > Consolidation > Project Mapping**.

Release 10.1

Added Item	Description
Add New Record	Use this button to add new records at all levels of non-recursive objects, except at the root level in the Consolidated Hierarchy view at the leaf level and the New UI (Search) in the object data grid.
Hive	New option added to the Database field in the Connection Manager screen. This option allows you establish a JDBC connection to Apache Hive as your big data source. You can then use OneData to send master data to a Hadoop system.

Deprecated Item	Replacement, if any
System Extensions (Metadata Template, Security Object, Subscriber Object)	None.
Presentation Template in User Preferences (Work Area and Release Area)	None.

Release 10.0

Added Item	Description
Consolidated Hierarchy view	Use the **Edit Hierarchy** option in the parent conceptual object data grid to view all objects and records associated with the conceptual object in two panels: ▪ Right panel, which allows you to the full conceptual object structure in a tree grid. ▪ Left panel, which allows you to scroll through all objects and records in the conceptual object and edit the records or objects. However, edit is not allowed at the root level. At the leaf level, you can even make inline edits to records without opening the record in a separate window. At other levels you can select the record and use the edit button to open the record details for editing.
onedata.security.authentication.sso.type	Set this system property to one of the following options, based on whether you want to enable single sign on (SSO), and if so, the type of SSO: ▪ *none* - for no SSO. ▪ *pluggable_sso* - for custom SSO framework. ▪ *kerberos_sso* - for Kerberos-based SSO. ▪ *saml_sso* - for SAML-based SSO.
SAML SSO Configuration	This new menu option under Administer > Security. When implementing SAML-based SSO with integrated Windows authentication, use this menu option to specify all the keystore details required to generate the service provider XML, *SAML_spmetadata.xml*.

Added Item	Description
New relational operators supported in RESTful services.	OneData RESTful services filters now support the following new relational operators: =, !=, <, <=, >, >= **Note:** Few of these might not be available as inline filters. For details, see *Developing for webMethods OneData*.
New logical operators supported in RESTful services.	OneData RESTful services filters now support the following new logical operators: LIKE, NOT_LIKE, NOT LIKE, IN, NOT_IN, NOT IN, IS_NULL, IS NULL, IS_NOT_NULL, IS NOT NULL **Note:** Few of these might not be available as inline filters. For details, see *Developing for webMethods OneData*.
JSON/JSON Schema File Import	New option to select if you want to import data from the JSON data or schema file. This option is available in the following fields: ▪ The **Job Type** field in Data Interchange > Manage Import Job> Add Import Job. ▪ The **Mapping Type** field in Data Interchange > Configuration > Interchange Mapping> Add New Mapping.
Mapping File	New field option, if the **Mapping Type** selected in Data Interchange > Configuration > Interchange Mapping> Add New Mapping is **JSON/JSON Schema File Import**. Use this field to select the JSON schema file containing the data to import.
Preselect Source Attributes	New field option, if the **Mapping Type** selected in Data Interchange > Configuration > Interchange Mapping> Add New Mapping is **JSON/JSON Schema File Import**. Select this optional field in order to map column names in the input source file as source attributes in the object.
Import from JSON Data	Use this option to select a JSON data file in Data Interchange > Configuration > Interchange Mapping > Import.

Added Item	Description
JSON Schema File	Use this option to select a JSON schema file in Data Interchange > Configuration > Interchange Mapping > Import.

Added Item	Description
onedata.kerberos.sso.enabled	Replaced by the new property, onedata.security.authentication.sso.type. The option to choose for Kerberos is kerberos_sso.
onedata.sso.enabled	Replaced by the new property, onedata.security.authentication.sso.type, which allows you to choose the type of SSO you want to implement.

Release 9.12

Added Item	Description
security	New folder added in the directory Software AG_directory/profiles/ODE/bin/onedata/config/. Contain the new Python scripts for data validation. For information on the scripts, see *Administering webMethods OneData*.

Added Item	Description
Python script files	The following two Python script files are now available by default in the directory *Software AG_directory*/profiles/ODE/bin/onedata/config/security: ▪ validate_input.py ▪ *Repository Name* _validate_input.py Depending on how you choose to implement data validation for your organization, OneData provides you the flexibility of using validation scripts at either the global or repository level. Additionally, the *Repository Name _validator_input.py* script file enforces data and cross-site scripting validation checks on data that comes into OneData through any point of entry—the user interface, import functions, HTTP channels, and REST-based service calls. For information on the scripts, see *Administering webMethods OneData*.
Schema Type	New field grouping in Manage > Manage Data > Object > View > Definition > External Services to accommodate new support for JSON format in REST APIs. This grouping also includes the following new fields in addition to the existing fields: ▪ XML Schema ▪ JSON Schema ▪ Audit Comments For more information, see *Developing for webMethods OneData*.
onedata.service.XSSValidationEnabled	Set this system property to enable or disable cross-site scripting (XSS) validation at the repository level for all data imported or sent to through the OneData service layer. For more information, see *Administering webMethods OneData*.
onedata.search.elasticsearch.termoperator	Sets the operators to use when the search string contains multiple words. For more information, see *Administering webMethods OneData*.

Added Item	Description
onedata.search.elasticsearch.sortanalyzer	Sets the default sorting analyzer defined in the analyzer.txt file available in directory *Software AG directory*\profiles\ODE\bin\onedata\config\elasticsearch. For more information, see *Administering webMethods OneData*.
onedata.search.elasticsearch.indexanalyzer	Sets the default index analyzer defined in the analyzer.txt file available in directory *Software AG directory*\profiles\ODE\bin\onedata\config\elasticsearch. For more information, see *Administering webMethods OneData*.
onedata.search.elasticsearch.searchanalyzer	Sets the default sorting analyzer defined in the analyzer.txt file available in directory *Software AG directory*\profiles\ODE\bin\onedata\config\elasticsearch. For more information, see *Administering webMethods OneData*.

Changed Item	Description
Generate XSD	Renamed to Generate Schema. For more information, see Developing for webMethods OneData.
Download XSD	Renamed to Download Schema. For more information, see Developing for webMethods OneData.

Removed Item	Replacement, if any
Data Validation Script	The new Python script files, validator_input.py and Repository Name _validator_input.py, replace this field in System Properties > Scripting this field.
onedata.search.elasticsearch.ngramanalyzer.enabled	None.
onedata.search.elasticsearch.ngram.filter.type	None. The file, analyzer.txt, available in the directory Software AG directory\profiles\ODE\bin\onedata\config\elasticsearch contains optimized analyzer settings. For more information, see Administering webMethods OneData.

Removed Item	Replacement, if any
onedata.search.elasticsearch.ngram.maxgram	None. The file, analyzer.txt, available in the directory Software AG directory\profiles\ODE\bin\onedata\config\elasticsearch contains optimized analyzer settings. For more information, see Administering webMethods OneData.
onedata.search.elasticsearch.ngram.mingram	None. The file, analyzer.txt, available in the directory Software AG directory\profiles\ODE\bin\onedata\config\elasticsearch contains optimized analyzer settings. For more information, see Administering webMethods OneData.
onedata.search.elasticsearch.ngram.truncate.filter.type	None. The file, analyzer.txt, available in the directory Software AG directory\profiles\ODE\bin\onedata\config\elasticsearch contains optimized analyzer settings. For more information, see Administering webMethods OneData.
onedata.search.elasticsearch.ngram.truncate.length	None. The file, analyzer.txt, available in the directory Software AG directory\profiles\ODE\bin\onedata\config\elasticsearch contains optimized analyzer settings. For more information, see Administering webMethods OneData.

Changed Item	Description
Generate XSD	Renamed to Generate Schema. For more information, see Developing for webMethods OneData.
Download XSD	Renamed to Download Schema. For more information, see Developing for webMethods OneData.

Deprecated Item	Replacement, if any
OneData Metadata Registry (MDR)	None.

9.0   Added, Removed, Deprecated, or Changed Parameters

A release is listed in this section only if changes occurred in that release.

Release 10.2

Added Item	Description
showMultipleColRelDesc	New parameter for JSON and XML GET responses. When set to *true*, this parameter allows you to retrieve multi-column foreign key descriptions with unique tags containing the child attributes as an object structure or a simple structure. If the value is *false*, then the GET response depends on the value set in the property onedata.webservice.rest.foreignKeyRelatedDescription.format.
	For more information on showMultipleColRelDesc, Developing for webMethods OneData, and for more information on onedata.webservice.rest.foreignKeyRelatedDescription.format, see *Administering webMethods OneData*.

Release 9.8

Added Parameter	Description

Added Parameter	Description
IDATA parameters	New IDATA input and output parameters have been introduced to handle Integration Server forms, workflows for data objects and conceptual objects, and a few other properties. For more information, *Developing for webMethods OneData*.
lowVolumeLoad	New parameter to indicate if the volume of data in the incoming payload can be processed in a single batch size of 100 or fewer records. This parameter, if set to true, optimizes the performance of the import process. For more information, *Developing for webMethods OneData*.
objectNamePrefixedInXSD	New REST parameter to override the global configuration property, onedata.webservice.rest.objectNamePrefixedInXSD , and XML Element Name defined for an object. For more information, *Developing for webMethods OneData*.
responseLogLevels	New REST parameter to override global configuration property onedata.webservice.rest.responseLogLevel.
svcLogLevel	New REST and JMS parameter to override the global configuration onedata.service.serviceLogLevel and individual Interchange Mapping profile settings. For more information, *Developing for webMethods OneData*.
sourceSystem	New REST and JMS parameter to override a payload's Source System description specified in an Interchange Mapping Profile. For more information, *Developing for webMethods OneData*.

10.0   Added, Removed, Deprecated, or Changed APIs

A release is listed in this section only if changes occurred in that release.

Release 9.12

Added API	Description
Data quality APIs for data cleansing	New data quality APIs for data cleansing to use with the URL:
	http://*host:port*/*OneData_application_name*/rest/*OneData_repository_ID*/*OneData project name*/DQ/*function*
	Three new API functions for cleansing of data are:
	cleanser
	cleanser /object/Staging
	cleanser /project/Locate
	For more information, see *webMethods OneData Consolidation MDM Guide*.
Data quality APIs for data matching	New data quality APIs for data matching to use with the URL:
	http://*host:port*/*OneData_application_name*/rest/*OneData_repository_ID*/*OneData project name*/DQ/*function*
	Four new API functions for cleansing of data are:
	▪ matcher
	▪ matcher/object/Staging
	▪ matcher/project/ScarusMatcher
	▪ matcher/rule/*rule name*
	For more information, see *webMethods OneData Consolidation MDM Guide*.

11.0 Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the TECH Community website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

ODE-RM-1011-20211015

webMethods Optimize for Infrastructure 10.11 Readme

October 2021

This file contains important information you must read before using webMethods Optimize for Infrastructure 10.11. You can find user documentation on the Documentation website or the Tech Community website. At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0   Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the Empower website.

- webMethods Optimize for Infrastructure 10.11 monitors current and older supported versions of webMethods products. However, it requires Infrastructure Data Collector 10.11, Analytic Engine 10.11, Universal Messaging 10.11, and My webMethods Server 10.11 for execution.

2.0   Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

▪ WID-1540
You cannot install Infrastructure Data Collector as a Windows service by applying a Command Central template.
There is currently no workaround for this issue.

▪ WID-1751
The installation of Infrastructure Data Collector by applying a Command Central template fails when you use non-standard ports.
To work around this issue, install Infrastructure Data Collector using the default ports, and then manually change the port from Command Central or from the file system.

3.0   Usage Notes

This section provides any additional information you need to work with the current release of this product.

▪ To maintain the Optimize performance, increase the number of database connections on the Database Pool Connection page in My webMethods. For typical systems, increase the maximum number of connections to 80. To change the number of available database connections, navigate to Administration > System-Wide > Environments > Database Pool Connections, and then on the Pool Settings panel, change the value in the Maximum Connections field from 36 to 80.

▪ The KPI Summary Page does not support extended display durations. If you want to keep the KPI Summary page active for longer periods without user interaction, add a workspace and use the Refresh Page portlet to keep the page current.

▪ SSL registration of Analytic Engine web services is not supported.

4.0   Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Release 10.11

• WID_10.1_Fix1

• WID_10.1_TN_Fix1

- WID_10.1_IS_Fix1
- WID_10.3_Fix4
- WID_10.3_TN_Fix4
- WID_10.3_IS_Fix4
- WID_10.5_Fix3
- WID_10.5_TN_Fix3
- WID_10.5_IS_Fix3

Release 10.7

- CMP_10.3_Fix1
- CMP_10.5_Fix1
- WID_10.3_Fix3
- WID_10.3_IS_Fix2
- WID_10.3_TN_Fix2
- WID_10.5_Fix1
- WID_10.5_TN_Fix1
- WID_10.5_IS_Fix1
- WID_10.3_TN_Fix3
- WID_10.3_IS_Fix3
- WID_10.3_Fix2

Release 10.5

- WID_9.10_Fix14
- WID_10.3_Fix1
- WID_10.3_IS_Fix1
- WID_10.3_TN_Fix1

Release 10.4

- WID_9.8_Fix23
- WID_9.9_Fix20
- WID_9.10_Fix13
- WID_9.12_Fix12
- CMP_9.8_Fix5
- CMP_9.9_Fix4
- CMP_9.10_Fix2
- CMP_9.12_Fix3
- CMP_10.0_Fix2
- CMP_10.1_Fix1

Release 10.3

- OPT_9.8_Fix22
- WID_9.9_Fix19
- WID_9.10_Fix13
- WID_9.12_Fix11
- OPT_10.0_Fix6
- OPT_10.1_Fix5
- CMP_9.8_Fix5
- CMP_9.9_Fix4
- CMP_9.10_Fix2
- CMP_9.12_Fix3
- CMP_10.0_Fix2
- CMP_10.1_Fix1

Release 10.2

- OPT_9.8_Fix22

- WID_9.9_Fix19

- OPT_9.10_Fix13

- OPT_9.12_Fix12

- OPT_10.0_Fix6

- OPT_10.1_Fix2

- CMP_9.8_Fix5

- CMP_9.9_Fix3

- CMP_9.10_Fix2

- CMP_9.12_Fix3

- CMP_10.0_Fix2

Release 10.1

- OPT_9.0_SP1_Fix16

- OPT_9.5_SP1_Fix16

- OPT_9.6_SP1_Fix12

- OPT_9.7_Fix20

- OPT_9.8_Fix19

- OPT_9.9_Fix15

- OPT_9.10_Fix7

- OPT_9.12_Fix7

- OPT_10.0_Fix4

- CMP_9.12_Fix1

Release 10.0

- OPT_9.0_SP1_Fix15

- OPT_9.5_SP1_Fix14

- OPT_9.6_SP1_Fix10

- OPT_9.7_Fix16

- OPT_9.8_Fix15

- OPT_9.9_Fix12

- OPT_9.10_Fix7

- CMP_9.12_Fix1

Release 9.12

- OPT_9.0_SP1_Fix14

- OPT_9.5_SP1_Fix13

- OPT_9.6_SP1_Fix9

- OPT_9.7_Fix13

- OPT_9.8_Fix11

- OPT_9.9_Fix9

- OPT_9.10_Fix4

- CMP_9.10_Fix1

Release 9.10

- OPT_9.0_SP1_Fix12

- OPT_9.5_SP1_Fix9

- OPT_9.6_SP1_Fix7

- OPT_9.7_Fix7

- OPT_9.8_Fix5

- CMP_9.8_Fix2

- OPT_9.9_Fix2

- CMP_9.9_Fix1

5.0 Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Release 10.7

▪ WID-1792
You cannot change the log levels of the Infrastructure Data Collector logs from My webMethods or from the Command Central user interface.
To work around this issue, change log levels from the file system.

▪ WID-1858
On the Assets page in My webMethods, the name of the discovered IS Cluster assets that Optimize displays is incorrect.
The issue is resolved.

Release 10.5

▪ WID-1749
Infrastructure Data Collector might fail to discover the Terracotta Server assets. The issue occurs after an update of the httpclient jar. The issue is resolved.

▪ WID-1752
Infrastructure Data Collector does not support TLS version 1.2.
As a result, connecting Infrastructure Data Collector to Integration Server using TLS version 1.2 fails.
The issue is resolved.

▪ CMP-92
On the KPI Instance Details page in My webMethods, the reading of the OutstandingEvents KPI might be incorrect.
Infrastructure Data Collector might fail to properly capture the outstanding events information for Universal Messaging named objects. As a result, the KPI Instance Details page might display an incorrect value for the OutstandingEvents KPI.
The issue is resolved.

Release 10.4

▪ WID-1746
When Optimize for Infrastructure monitors the Integration Server KPIs, the following error might be logged in the server log:
"ERROR: com.softwareag.infradc.isdc.ISDCPollCallback: Retrieving system component context from asset error".

The issue is resolved.

- WID-1717
  Optimize for Infrastructure might fail to monitor the Object Status KPI of an IS JMS Trigger.
  Optimize for Infrastructure might incorrectly report an online IS JMS Trigger as offline. The issue occurs when the WmPRT package is reloaded.
  The issue is resolved.

- WID-1694
  Optimize for Infrastructure might fail to monitor the Object Status KPI of an IS Native Trigger.
  Optimize for Infrastructure might incorrectly report an online IS Native Trigger as offline. The issue occurs when the WmPRT package is reloaded.
  The issue is resolved.

Release 10.3

- WID-1700
  Infrastructure Data Collector does not support migration to the same version.
  The issue is resolved.

- WID-1631
  The Infrastructure Data Collector server log might contain the following error:
  "StandardWrapper.Throwablejava.lang.IllegalStateException: InjectionManagerFactory not found."
  The issue is resolved.

- WID-1672
  The command-line help of the Infrastructure Data Collector migration utility is not consistent.
  The issue is resolved.

- WID-1666
  Infrastructure Data Collector stores sensitive user information in the log files.
  The issue is resolved.

- WID-1629
  Infrastructure Data Collector fails to start when using Java Service Wrapper version 3.5.29.
  The issue is resolved.

- WID-1625
  The Infrastructure Data Collector (IDC) process might crash while monitoring Apama and Terracotta servers.
  When Infrastructure Data Collector monitors Apama and Terracotta servers, the IDC process might have very high memory usage and the process might crash. The issue occurs because of an out of memory exception.
  The issue is resolved.

- WID-1574
  Infrastructure Data Collector incorrectly emits diagnostic events for components that are not

selected for monitoring. The issue occurs for components of discovered assets.
The issue is resolved.

▪ CMP-92
On the KPI Instance Details page in My webMethods, the reading of the OutstandingEvents KPI might be incorrect.
Infrastructure Data Collector might fail to properly capture the outstanding events information for Universal Messaging named objects. As a result, the KPI Instance Details page might display an incorrect value for the OutstandingEvents KPI.
The issue is resolved.

Release 10.2

▪ WID-1596
Optimize might fail to monitor Integration Server clusters.
Infrastructure Data Collector might fail to monitor an Integration Server cluster. The issue occurs when all nodes from the cluster were discovered using a non-primary port.
The issue is resolved.

▪ WID-1590
When Infrastructure Data Collector monitors a Terracotta Server, the BAM_EVENT_TMP and BAM_EVENT_TMP_ATTR tables might become very large. The issue occurs when the Terracotta Server is down.
The issue is resolved.

▪ WID-1573
The Optimize Monitored Components page might not display an Integration Server (IS) package.
The Monitored Components page in My webMethods might not display a discovered IS Package in the list of monitored components. As a result, you might not be able to monitor the IS package. The issue occurs when an IS package does not contain a service.
The issue is resolved.

▪ WID-1554
Infrastructure Data Collector might hang during a discovery process.
Infrastructure Data Collector might hang in "Running" status during a discovery process if uncaught throwable errors occur during the process.
The issue is resolved.

▪ WID-1539
Optimize does not display a warning when you delete an asset of type "JMX Configuration".
In the Discovered Assets panel on the Assets page in My webMethods, when you select an asset of type "JMX Configuration" and click Delete, Optimize does not display a warning message that all associated monitored components and associated KPIs will be deleted from the system. The issue is resolved.

▪ WID-1486

When Infrastructure Data Collector monitors a Universal Messaging realm, and the realm is offline, the wrapper log starts filling with the following exception message:
"RealmUnreachableException: Realm is currently not reachable".
The issue is resolved.

- CMP-73
  Platform Manager might hang while monitoring a Universal Messaging realm. The issue occurs when the Universal Messaging realm is configured incorrectly, or when the Universal Messaging realm is connected to a remote Universal Messaging realm, which is offline.
  The issue is resolved.

- CMP-56
  When Platform Manager is configured to monitor Universal Messaging (UM), the UM log might repeatedly log the same error message.
  When Platform Manager attempts connecting to a Universal Messaging interface using the UM plug-in for Platform Manager, the following error might be logged repeatedly in the nirvana.log file:
  "not authorised to connect on interface".
  The issue occurs when the Allow Client Connections option is unchecked for the Universal Messaging interface to which Platform Manager connects.
  The issue is resolved.

Release 10.1

- JBP-6470
  Optimize fails to create dimension instances for MashZone NextGen Catalina Server.
  The issue is resolved.

- OBE-9260
  The size of the Analytic Engine log file might grow rapidly.
  Sometimes when you start Analytic Engine after a fresh installation, the Analytic Engine log file grows rapidly. The issue occurs when the Universal Messaging server that is configured for Analytic Engine did not start properly.
  The issue is resolved.

Release 10.0

- WID-1474
  Infrastructure Data Collector fails to monitor Integration Server assets that are configured to use a secure connection (SSL). As a result, no readings are generated for monitored Integration Server KPIs.
  The issue is resolved.

- OBE-8414
  When you change the display name of a measure attribute, the KPIs that are set for this measure stop functioning.

To work around this issue, set the display name back to the original display name.
The issue is resolved.

▪ OBE-8932
Back-populating rules in Optimize might fail.
In some cases, when you click the Generate Rule Violations button on the Rule List page, the initiated rule back-population operation fails. Although no error message appears, the status of the back-population job in the Job Audit page, is "Failed".
The issue is resolved.

Release 9.10

▪ WID-1221
The Asset page fails to display status "Refused" for Integration Server assets.
In My webMethods Server, on the Applications > Administration > Analytics > Infrastructure Components > Assets page, when you edit the connection parameters for an Integration Server asset and you accidentally enter an invalid password, the status of the asset is not updated to "Refused" but remains "Accepted," even though no new KPI readings are collected from this asset because of the invalid password.
This issue has been resolved.

▪ OBE-7017
The Analytics Overview page continues to display KPI instances for deleted assets.
In My webMethods Server, after you delete an asset from the Applications > Administration > Analytics > Infrastructure Components > Assets page and you go to the Applications > Monitoring > System-Wide > Analytics Overview page, you can still see KPI data for the removed asset.
This issue has been resolved.

▪ OBE-7145
Data remains unprocessed in the Universal Messaging JMS queues when an Analytic Engine node is down.
When the Analytic Engine is running in a clustered environment, and some of the nodes are down, the data that is pushed to the respective Universal Messaging queue is not processed until the nodes come back up again.
This issue has been resolved.

▪ OBE-7597
On the KPI Instance Detail page, when you plot KPIs with collection intervals of 2, 4, or 8 hours, the graph displays incorrect times for reading values.
In My webMethods Server, when you plot KPIs on the KPI Instance Detail page with collection intervals of 2, 4, or 8 hours, the KPI reading values that are displayed on the graph are plotted at incorrect times.
This issue has been resolved.

▪ OBE-7536
The Advanced search tab on the Problems page does not return correct results.

In My webMethods Server, on the Applications > Monitoring > System-Wide > Problems page, when you use the Advanced search tab to filter problems setting the "Field Name" to "Duration" and selecting "Greater Than" or "Less Than" as operators, your search might be misleading, since they also contain problems with duration that is equal to the selected value.

This issue has been resolved. The "Greater Than" and "Less Than" operators no longer return problems with Duration equal to the selected filter Value. Also, the following operators have been added when filtering by duration:

"Greater Than or Equal To" and "Less Than or Equal To"

- OBE-7511

  An error prevents you from editing or copying an instant rule with no user specified.

  In My webMethods Server, on the KPI Instance Detail page, when you create an instant rule without specifying a user for the Send Alert To drop-down list, and then you navigate to the Applications > Administration > Analytics > Rules > Rule List Page, you cannot edit or copy the rule. The following error is displayed in the Alerts panel on the Add/Edit/Copy Rule page:

  User is unknown or email address is undefined.

  This issue has been resolved.

- OBE-7990

  The Define Environments page allows you to create an environment with no name.

  In My webMethods Server, on the Administration > System-Wide > Environments > Define Environment page, when you click Add Environment, you can save your environment with no value for Environment Name.

  This issue has been resolved.

- OBE-7491

  The KPI Instance Detail page incorrectly aggregates KPIs of type Sum or Count to the beginning of the hour.

  In My webMethods Server, on the KPI Instance Detail page, when you plot KPIs of type Sum or Count, the KPI data values are incorrectly aggregated to the beginning of the hour, instead of the end.

  This issue has been resolved.

- OBE-7485
  The Select All icon on the Database Pool Configuration page does not select all listed pools.
  In My webMethods Server, on the Applications > Administration > System-Wide > Environments >
  Database Pool Configuration, when you click the Select All icon, not all listed pools are selected.
  This issue has been resolved.

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or
removal of product guides, online help, chapters, or other major content. A release is listed in this
section only if changes occurred in that release.

Release 10.3

- An HTML version of the documentation for webMethods Optimize 10.3 has been added and is now
  available on the documentation site under the name *webMethods Optimize Help. webMethods
  Optimize Help* includes the information from the *webMethods Optimize User's Guide*, *Administering
  webMethods Optimize,* and *Configuring BAM* guides.

- The "Monitored KPI Definitions" chapter of the *Administering webMethods Optimize* guide has been
  updated with information about Integration Server Native Messaging KPI definitions and
  Integration Server JMS Messaging KPI definitions.

- The "Integration between Optimize and PPM" chapter of the *Administering webMethods Optimize*
  guide has been removed.

Release 10.1

- The "Managing webMethods Optimize Environments" chapter of the *Configuring BAM* guide has
  been updated with information about configuring JMX resource module settings.

- The "Discovery Assets and Monitoring Components" chapter of the *Administering webMethods
  Optimize* guide has been updated with information about adding JMX assets for discovery.

- The "Discovery Assets and Monitoring Components" chapter of the *Administering webMethods
  Optimize* guide has been updated with information about setting the monitoring of MashZone
  NextGen Server components (10.1 release only).

- The "Monitored KPI Definitions" chapter of the *Administering webMethods Optimize* guide has been
  updated with information about System Component Monitoring for Integration Server KPI
  definitions and System Component Monitoring for Infrastructure Data Collector KPI definitions.

- The information about the Integration Server KPI definitions and the Universal Messaging cluster KPI definitions in the "Monitored KPI Definitions" chapter of the *Administering webMethods Optimize* guide has been updated.

- Information about the Integration Server Long Running Thread rule has been added to the "Built-In Rules" chapter of the *Administering webMethods Optimize* guide.

Release 10.0

- The "Using Command Central to Manage Optimize" chapter has been moved from the *Administering webMethods Optimize* guide to the *Configuring BAM* guide. The chapter has been updated with procedures for configuring Optimize through Command Central.

- The "Managing webMethods Optimize Environments" chapter of the *Configuring BAM* guide has been updated with information about configuring Digital Event Services resource module settings.

- The "Monitored KPI Definitions" chapter of the *Administering webMethods Optimize* guide has been updated with information about Digital Event Services KPI definitions.

- The information about the Universal Messaging KPI definitions in the "Monitored KPI Definitions" chapter of the *Administering webMethods Optimize* guide has been updated.

- The "Configuring the SNMP Data Collector" chapter of the *Administering webMethods Optimize* guide has been updated with information about monitoring memory consumption and processor load.

- The "Discovery Assets and Monitoring Components" chapter of the *Administering webMethods Optimize* guide has been updated with information about adding Digital Event Services assets for discovery.

- The "Discovery Assets and Monitoring Components" chapter of the *Administering webMethods Optimize* guide has been updated with information about setting a root context for My webMethods Server assets.

- The information about the Infrastructure Data Collector Queue Size KPI definitions in the "Monitored KPI Definitions" chapter of the *Administering webMethods Optimize* guide has been updated.

Release 9.12

- A new "Using Command Central to Manage Optimize" chapter has been added to the *Administering webMethods Optimize* guide. This chapter is moved from the *Software AG Command Central Help*. The chapter describes the currently supported operations in Command Central for managing Optimize.

- The "Monitored KPI Definitions" chapter of the *Administering webMethods Optimize* guide has been updated with information about KPI definitions for Event Routing.

- The "Built-In Rules" chapter of the *Administering webMethods Optimize* guide has been updated with information about Event Routing rules.

- The "Monitored KPI Definitions" chapter of the *Administering webMethods Optimize* guide has been updated with information about KPI definitions for Universal Messaging named objects.

- The "Adding Terracotta Server and Terracotta Server Array Assets for Discovery" section of the *Administering webMethods Optimize* guide has been updated with information about monitoring Terracotta Server and Terracotta Server Array assets over HTTPS.

- The "The Assets Page" section of the *Administering webMethods Optimize* guide has been updated with information about monitoring My webMethods Server with a root context.

- The "Managing webMethods Optimize Environments" chapter of the *Configuring BAM* guide has been updated with information about configuring in-process event publication.

Release 9.10

- The "Monitored KPI Definitions" chapter of the *Administering webMethods Optimize* guide has been updated with information about KPI definitions for MashZone NextGen, UM Cluster, and Presto delta KPIs.

- The "Monitored KPI Definitions" chapter of the *Administering webMethods Optimize* guide now contains information about newly added diagnostic KPIs about the following component types: InfrastructureDataCollector, ApamaCorrelator, BrokerServer, SNMP, IntergrationServer, ISCluster, MyWebMethodsServer, Presto, Universal Messaging Realm, and TerracottaConnection.

- The "Adding an Asset" section of the *Administering webMethods Optimize* guide now contains information about adding Universal Messaging Cluster and MashZone NextGen assets.

7.0   Terminology Changes

A release is listed in this section only if changes occurred in that release.

8.0   Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 10.11

Removed Item	Description
Monitoring Universal Messaging	Optimize for Infrastructure 10.11 does not support monitoring of Universal Messaging versions older than 9.12, and of innovation releases 10.0, 10.2 and 10.4.

Release 10.5

Added Item	Description
Digital Event Service Component	Optimize for Infrastructure 10.5 supports monitoring of Digital Event Service (DES).

Release 10.4

Removed Item	Description
Digital Event Service Component	Since the Digital Event Services (DES) component is no longer available beginning with the 10.4 release, you cannot use Optimize to monitor it. You can still use Optimize for Infrastructure 10.4 to monitor lower versions of DES.
Mashzone NextGen KPIs (NoOfAppsInDepot,NoOfAppsInHub, NoOfPending, AppsInDepot,NoOfAtoms, NoOfDataSources,NoOfDatabases,NoOfJDBCDrivers, NoOfMacros,NoOfMashups,NoOfRESTs,NoOfRSS, NoOfSharePoints,NoOfSpreadsheets,NoOfWSDLs,NoOfXMLs)	These KPIs are deprecated beginning with Mashzone NextGen 10.4, as the corresponding APIs are removed.
Mashzone Universal Messaging Realm and its child Components	Beginning with version 10.4, Mashzone no longer provides its Realm component, and the monitoring is not possible. You can still use Optimize for Infrastructure 10.4 to monitor lower versions of Mashzone Universal Messaging Realm.

Release 10.3

Added Item	Description
Integration Server "IS JMS Messaging" Component	KPIs introduced as part of this component: boolean ObjectStatus: Whether a connection alias exists int CSQCount: The number of Client Side Queue messages. boolean ConnectionAliasStatus: The status of the connection alias.
Integration Server "IS Native Messaging" Component	KPIs introduced as part of this component: boolean ObjectStatus: Whether a connection alias exists int CSQCount: The number of Client Side Queue messages. boolean ConnectionAliasStatus: The status of the connection alias.
Integration Server "IS Cache Manager" Component	KPIs introduced as part of this component: boolean ObjectStatus: Whether the Cache Manager exists. int CacheCount :The number of caches in a Cache Manager. boolean TSAConnectinStatus Terracotta Server Array connection status of a Cache Manager boolean CacheManagerConnectionStatus The connection status of the Cache Manager from Integration Server

Changed Item	Description
Add Components button	In My webMethods > Edit Component Type page, the Add Components button is now renamed to Enable Components.
Delete button	In My webMethods > Edit Component Type page, the Delete button is now renamed to Disable Components.

Release 10.1

Added Item	Description
JMX monitoring	The provider can connect to a JMX service and retrieve a set of mbeans' information. The user defines the mbean set in an mbean type filter. Different mbean sets require different filters (names).
Infrastructure Data Collector JMX	The System Component discovery for Infrastructure Data Collector happens automatically when Infrastructure Data Collector starts. No input is needed from the user.
	The monitoring is using Infrastructure Data Collector JMX agent. The JMX port is retrieved through the Infrastructure Data Collector bundle context.
Integration Server JMX	The System Component discovery for Integration Server happens automatically with the Integration Server discovery. No additional input is needed from the user.
	The monitoring is using Integration Server JMX agent. The JMX port is retrieved through the WmISExtDC package.
Integration Server "Long Running Threads" KPI	This KPI counts long-running service threads in Integration Server. By default it counts service threads that are running for more than 60000 milliseconds.
UM KPI additions	boolean HasQuorum - Indicates if the cluster can form a quorum.
	boolean IsOnline - Indicates if the cluster is online.

Added Item	Description
MashZone NextGen Server 10.1 monitoring	The following lines must be added to the wrapper.conf file.
	wrapper.java.additional.200=-Dcom.sun.management.jmxremote
	#wrapper.java.additional.201=-Dorg.tanukisoftware.wrapper.WrapperManager.mbean=TRUE
	#wrapper.java.additional.202=-Dorg.tanukisoftware.wrapper.WrapperManager.mbean.testing=TRUE
	wrapper.java.additional.203=-Dcom.sun.management.jmxremote.port=9088
	wrapper.java.additional.204=-Dcom.sun.management.jmxremote.authenticate=false
	wrapper.java.additional.205=-Dcom.sun.management.jmxremote.ssl=false

Release 10.0

Added Item	Description
Digital Event Services	Monitoring DES events.
SNMP provide sum average functions	A mechanism to do a sum or average across multiple PDUs. This is necessary for calculation of CPU or memory utilization when the values are represented per CPU or per running application.
Universal Messaging detects stale queues	Monitoring Universal Messaging queues capability is enhanced to detect the age of messages in the queue. When a message has been on a queue longer than a specified amount of time, a report or an alert can be sent.
Infrastructure Data Collector queue sizes	Monitoring Universal Messaging queue sizes which are used by Infrastructure Data Collector.
Optimize is configurable through Command Central.	You can now configure Optimize for Process and Optimize for Infrastructure through Command Central.

Added Item	Description
Support for MWS Root Context	The Optimize for Process and Optimize for Infrastructure user interfaces now support the MWS Root Context capability.

Release 9.12

Added Item	Description
EDA	Event routing framework is embedded in products like IS, Optimize, MWS etc. Monitoring of EDA to these products will be through a JMX port
MWS root context	Monitoring MWS with root context defined
Universal Messaging named objects	Monitoring of UM named objects
Terracotta HTTPS	Monitoring of Terracotta over HTTPS

Release 9.10

Added Item	Description
UM Cluster Monitoring	Monitoring of UM Cluster Nodes
Ability to delete Key Performance Indicators by date and name	You are now able to delete KPIs by date and name.

Changed Item	Description
Presto 9.10 only	Name changed to MashZone Next Gen

9.0   Added, Removed, Deprecated, or Changed APIs

A release is listed in this section only if changes occurred in that release.

10.0 Copyright Information

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11.0 Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the Tech Community website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

OPTINF-RM-1011-20211015

webMethods Optimize for Process 10.11 Readme

October 2021

This file contains important information you must read before using webMethods Optimize for Process 10.11. You can find user documentation on the [Documentation website](#) or the [Tech Community website](#). At those locations, you can also find the suite-related information listed below.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0 Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

- webMethods Optimize for Process 10.11 is compatible for execution only with the latest 10.11 versions of other webMethods products.

- When using Broker Basic Authentication, do not set ACL on the Analysis client group.

2.0 Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

- OBE-9738
  In Optimize, editing a standardized error type might fail.
  In My webMethods, on the Instance Analytics tab in the Edit Process page, when you click the Edit Error Type icon for a standardized error type, the Edit Error Type dialog might not appear. As a result, you cannot edit the standardized error type.
  The issue occurs when you attempt editing a standardized error type more than once without leaving the Edit Process page between the attempts.
  To work around this issue, navigate to another page and then open the Edit Process page again.

3.0 Usage Notes

This section provides any additional information you need to work with the current release of this product.

4.0 Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Release 10.11

- OPT_9.12_Fix27
- OPT_10.1_Fix18
- OPT_10.3_Fix19
- OPT_10.5_Fix11
- OPT_10.7_Fix2

Release 10.7

- OPT_9.12_Fix26
- OPT_10.1_Fix13
- OPT_10.3_Fix15

- OPT_10.5_Fix6

Release 10.5

- OPT_9.12_Fix21

- OPT_10.1_Fix9

- OPT_10.3_Fix5

Release 10.4

- OPT_9.12_Fix17

- OPT_10.0_Fix6

- OPT_10.1_Fix6

- OPT_10.2_Fix3

- OPT_10.3_Fix1

Release 10.3

- OPT_9.5_SP1_Fix19

- OPT_9.7_Fix22

- OPT_9.9_Fix22

- OPT_9.10_Fix15

- OPT_9.12_Fix16

- OPT_10.1_Fix5

- OPT_10.2_Fix2

Release 10.2

- OPT_9.8_Fix22

- OPT_9.9_Fix18

- OPT_9.10_Fix13

- OPT_9.12_Fix12

- OPT_10.1_Fix2

Release 10.1

- OPT_9.0_SP1_Fix16

- OPT_9.5_SP1_Fix17

- OPT_9.6_SP1_Fix12

- OPT_9.7_Fix20

- OPT_9.8_Fix19

- OPT_9.9_Fix15

- OPT_9.10_Fix10

- OPT_9.12_Fix7

- OPT_10.0_Fix4

Release 10.0

- OPT_9.0_SP1_Fix15

- OPT_9.5_SP1_Fix14

- OPT_9.6_SP1_Fix10

- OPT_9.7_Fix16

- OPT_9.8_Fix15

- OPT_9.9_Fix12

- OPT_9.10_Fix7

- OPT_9.12_Fix4

Release 9.12

- OPT_9.0_SP1_Fix14

- OPT_9.5_SP1_Fix13

- OPT_9.6_SP1_Fix9

- OPT_9.7_Fix13

- OPT_9.8_Fix11

- OPT_9.9_Fix9

- OPT_9.10_Fix4

Release 9.10

- OPT_9.0_SP1_Fix12

- OPT_9.5_SP1_Fix9

- OPT_9.6_SP1_Fix7

- OPT_9.7_Fix7

- OPT_9.8_Fix6

- OPT_9.9_Fix2

5.0 Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Release 10.2

▪ OBE-10176
Optimize might display an incorrect state of a process stage.
Optimize might incorrectly display an uncompleted stage as completed. The issue occurs when the end milestone step of a stage that comes from Dynamic Business Orchestrator is in a status that is not recognized by Optimize.
The issue is resolved.

Release 10.1

▪ OBE-9260
The size of the Analytic Engine log file might grow rapidly.
Sometimes when you start Analytic Engine after a fresh installation, the Analytic Engine log file grows rapidly. The issue occurs when the Universal Messaging server that is configured for Analytic Engine did not start properly.
The issue is resolved.

Release 10.0

▪ OBE-8414
When you change the display name of a measure attribute, the KPIs that are set for this measure stop functioning.
To work around this issue, set the display name back to the original display name.
The issue is resolved.

▪ OBE-8868
Optimize fails to extract large numbers of assets.
In the Asset Extraction page in Optimize, if a large number of assets is available and you select all the assets and try to export them, the page freezes.
The issue is resolved.

▪ OBE-8932
Back-populating rules in Optimize might fail.
In some cases, when you click the Generate Rule Violations button on the Rule List page, the initiated rule back-population operation fails. Although no error message appears, the status of the back-population job in the Job Audit page is "Failed".
The issue is resolved.

Release 9.12

- OBE-8602
  In some cases, the Process Dashboards page in Optimize does not load.
  In the Overview tab of the Process Dashboards page in Optimize, a "Loading Process models" message appears, indefinitely but the page does not load. The issue occurs when no process models that are enabled for analysis are deployed in the environment.
  The issue is resolved.

Release 9.10

- OBE-7145
  Data remains unprocessed in the Universal Messaging JMS queues when an Analytic Engine node is down.
  When the Analytic Engine is running in a clustered environment, and some of the nodes are down, the data that is pushed to the respective Universal Messaging queue is not processed until the nodes come back up again.
  This issue has been resolved.

- OBE-7597
  On the KPI Instance Detail page, when you plot KPIs with collection intervals of 2, 4, or 8 hours, the graph displays incorrect times for reading values.
  In My webMethods Server, when you plot KPIs on the KPI Instance Detail page with collection intervals of 2, 4, or 8 hours, the KPI reading values that are displayed on the graph are plotted at incorrect times.
  This issue has been resolved.

- OBE-7888
  Loading faulty KPI instances may lead to a NullPointerException when the Optimize Analytic Engine is restarted.
  When a KPI definition contains a hierarchy with one or multiple dimensions, and Analytic Engine processes a related reading where some of the data for the dimensions is null, a faulty KPI instance is created. As a result, when the Analytic Engine is restarted afterwards, a NullPointerException is observed.
  This issue has been resolved.

- OBE-7518
  The Delete button on the Business Processes section in the Data Level Security tab for a role becomes inactive when you move between table pages.
  In My webMethods Server, on the Applications > Administration >System-Wide > User Management > Roles page, when you edit a role and go to the Business Process section in the Data Level Security tab, the Delete button becomes inactive when you move between table pages.
  This issue has been resolved.

- OBE-7511
  An error prevents you from editing or copying an instant rule with no user specified.
  In My webMethods Server, on the KPI Instance Detail page, when you create an instant rule without specifying a user for the Send Alert To drop-down list, and then you navigate to the Applications > Administration > Analytics > Rules > Rule List Page, you cannot edit or copy the rule. The following error is displayed in the Alerts panel on the Add/Edit/Copy Rule page: User is unknown or email address is undefined.
  This issue has been resolved.

- OBE-7990
  The Define Environments page allows you to create an environment with no name.
  In My webMethods Server, on the Administration > System-Wide > Environments > Define Environment page, when you click Add Environment, you can save your environment with no value for Environment Name.
  This issue has been resolved.

- OBE-7536
  The Advanced search tab on the Problems page does not return correct results.
  In My webMethods Server, on the Applications > Monitoring > System-Wide > Problems page, when you use the Advanced search tab to filter problems setting the "Field Name" to "Duration" and selecting "Greater Than" or "Less Than" as operators, your search might be misleading, since they also contain problems with duration that is equal to the selected value.
  This issue has been resolved. The "Greater Than" and "Less Than" operators no longer return problems with Duration equal to the selected filter Value. Also, the following operators have been added when filtering by duration:
  "Greater Than or Equal To" and "Less Than or Equal To"

- OBE-7750
  The swarm line density and colors are displayed incorrectly on the Process Diagram panel of the Process Analytics page.
  In My webMethods Server, on the Applications > Monitoring > Business > Process Analytics page, the Process Diagram panel displays swarm lines with incorrect density and colors.
  This issue has been resolved.

- OBE-7491
  The KPI Instance Detail page incorrectly aggregates KPIs of type Sum or Count to the beginning of the hour.
  In My webMethods Server, on the KPI Instance Detail page, when you plot KPIs of type Sum or Count, the KPI data values are incorrectly aggregated to the beginning of the hour, instead of the end.
  This issue has been resolved.

- OBE-7485
  The Select All icon on the Database Pool Configuration page does not select all listed pools.
  In My webMethods Server, on the Applications > Administration > System-Wide > Environments >
  Database Pool Configuration, when you click the Select All icon, not all listed pools are selected.
  This issue has been resolved.

- OBE-7558
  Email notifications at the Process Dashboards panel fail to display the end time of a stage instance.
  On the Stage Instances tab of the Process Dashboards panel, when you select a stage instance and
  you click the Forward as Email link, the email received mistakenly displays the Stage End Date as
  "n/a", instead of showing the value, displayed on the Stage Instances panel.
  This issue has been resolved.

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or
removal of product guides, online help, chapters, or other major content. A release is listed in this
section only if changes occurred in that release.

Release 10.3

- An HTML version of the documentation for webMethods Optimize 10.3 has been added and is now
  available on the documentation site under the name *webMethods Optimize Help. webMethods
  Optimize Help* includes the information from the *webMethods Optimize User's Guide*, *Administering
  webMethods Optimize,* and *Configuring BAM* guides.

- The "Monitored KPI Definitions" chapter of the *Administering webMethods Optimize* guide has been
  updated with information about Integration Server Native Messaging KPI definitions and
  Integration Server JMS Messaging KPI definitions.

- The "Integration between Optimize and PPM" chapter of the *Administering webMethods Optimize*
  guide has been removed.

Release 10.1

- The "Managing webMethods Optimize Environments" chapter of the *Configuring BAM* guide has
  been updated with information about configuring JMX resource module settings.

- The "Discovery Assets and Monitoring Components" chapter of the *Administering webMethods
  Optimize* guide has been updated with information about adding JMX assets for discovery.

- The "Discovery Assets and Monitoring Components" chapter of the *Administering webMethods
  Optimize* guide has been updated with information about setting the monitoring of MashZone

NextGen Server components (10.1 release only).

- The "Monitored KPI Definitions" chapter of the *Administering webMethods Optimize* guide has been updated with information about System Component Monitoring for Integration Server KPI definitions and System Component Monitoring for Infrastructure Data Collector KPI definitions.

- The information about the Integration Server KPI definitions and the Universal Messaging cluster KPI definitions in the "Monitored KPI Definitions" chapter of the *Administering webMethods Optimize* guide has been updated.

- Information about the Integration Server Long Running Thread rule has been added to the "Built-In Rules" chapter of the *Administering webMethods Optimize* guide.

Release 10.0

- The "Using Command Central to Manage Optimize" chapter has been moved from the *Administering webMethods Optimize* guide to the *Configuring BAM* guide. The chapter has been updated with procedures for configuring Optimize through Command Central.

- The "Managing webMethods Optimize Environments" chapter of the *Configuring BAM* guide has been updated with information about configuring Digital Event Services resource module settings.

- The "Monitored KPI Definitions" chapter of the *Administering webMethods Optimize* guide has been updated with information about Digital Event Services KPI definitions.

- The information about the Universal Messaging KPI definitions and the Infrastructure Data Collector KPI definitions in the "Monitored KPI Definitions" chapter of the *Administering webMethods Optimize* guide has been updated.

- The "Configuring the SNMP Data Collector" chapter of the *Administering webMethods Optimize* guide has been updated with information about monitoring memory consumption and processor load.

- The "Discovery Assets and Monitoring Components" chapter of the *Administering webMethods Optimize* guide has been updated with information about adding Digital Event Services assets for discovery.

- The "Discovery Assets and Monitoring Components" chapter of the *Administering webMethods Optimize* guide has been updated with information about setting a root context for My webMethods Server assets.

Release 9.12

- A new "Using Command Central to Manage Optimize" chapter has been added to the guide. This chapter is moved from the *Software AG Command Central Help*. The chapter describes the currently supported operations in Command Central for managing Optimize.

- The "Managing webMethods Optimize Environments" chapter of the *Configuring BAM* guide has been updated with information about configuring failover tuning for guaranteed consistency in Terracotta.

- The "Managing webMethods Optimize Environments" chapter of the *Configuring BAM* guide has been updated with information about configuring in-process event publication.

- The "Process Analytics" chapter of the *webMethods Optimize User's Guide* has been updated with information about the new date range and refresh rate options, available on the Optimize Process Analytics page.

- The "Monitored KPI Definitions" chapter of the *Administering webMethods Optimize* guide has been updated with information about using additional JVM parameters for task event KPI definitions.

Release 9.10

The *Administering webMethods Optimize* guide has been revised as follows:

- The "Integration between Optimize and PPM" chapter has been added. It contains information you should have in mind when using the two products for extended analysis of business process data.

The *Configuring BAM Guide* now includes information about creating an alert in Optimize from the PPM user interface.

The *Software AG Command Central* help contains information about administering the Web Service Data Collector using the Command Central user interface.

7.0 Terminology Changes

A release is listed in this section only if changes occurred in that release.

8.0 Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 10.11

Added Item	Description
Administrator password configuration	You can now change the default Administrator password during Optimize installation and during environment configuration.

Deprecated Item	Replacement, if any
<SAG_INSTALL_DIR>\optimize\analysis\instance folder and clusterManager.bat/sh script	There is no replacement. The clusterManager script was used to create local Analytic Engine clusters for testing purposes. For more information on creating Analytic Engine clusters, see the *Configuring BAM* guide.
EDA events	In future releases, DES events will be used as a replacement for EDA events.

Release 10.7

Added Item	Description
Support for PostgreSQL databases	You can now configure your Optimize environment to use a PostgreSQL database.
Support for Software AG Migration utility	You can now use the Software AG Migration utility to migrate from Optimize 9.12 and higher versions to the latest Optimize version.

Changed Item	Description
Adobe Flash	Optimize no longer uses Adobe Flash for its graphics, because Adobe Flash will stop working on all browsers in December 2020. Optimize now uses JavaScript to display the graphics and charts.

Release 10.3

Removed Item	Description
Process Dashboards in My webMethods	Process Dashboards are removed from My webMethods (Applications > Monitoring > Business > Process Dashboards) and can now only be accessed in Business Console.
View in PPM button	The View in PPM button in Process Dashboards is removed.

Changed Item	Description
Add Components button	In My webMethods > Edit Component Type page, the Add Components button is now renamed to Enable Components.
Delete button	In My webMethods > Edit Component Type page, the Delete button is now renamed to Disable Components.
Export Table button	In My webMethods >Analytics Overview page, the Export Table button is now renamed to Export Readings.

Release 10.2

Added Item	Description
Support for MySQL Enterprise Edition	You can now configure Optimize to use a MySQL Enterprise Edition database.

Release 10.0

Added Item	Description
Support for MWS Root Context	The Optimize for Process and Optimize for Infrastructure user interfaces now support the MWS Root Context capability.
508 Compliance for forms in the Optimize User Interface	The Optimize user interface is 508 Compliant for all forms.
Optimize is configurable through Command Central	You can now configure Optimize for Process and Optimize for Infrastructure through Command Central.

Release 9.10

Added Item	Description
Command Central integration for Web Service Data Collector	Users can now start, stop, restart, inventory and receive the status for Web Service Data Collector using Software AG Command Central.
Process Instance Control (PIC) and Process Step Instance Control (PSIC) content are now identical.	The content of the Process Instance Control (PIC) and Process Step Instance Control (PSIC) events are now identical for both orchestrated and un-orchestrated processes.
Launching the Process Performance Manager (PPM) no longer depends on a Java applet	PPM now is launched via Java web start which allows the PPM user interface to display properly in browsers where the Java Applet has been dropped such as Google Chrome.
Ability to delete Key Performance Indicators by date and name	You are now able to delete KPIs by date and name.
Ability to view custom MashZone Next Gen dashboards within Business Console	You are now able to view your custom dashboards within the Business Console.
Optimize User Interface provides 508 Compliance for images	The Optimize User Interface provides 508 Compliance for images ensuring all images have proper alt text.

Deprecated Item	Replacement, if any
KPI Instance Detail Portlet (9.9 and prior)	For 9.10, the KPI Instance Detail portlet was replaced with a revised version. The KPI Instance Detail portlet (wm_bam_monitor_detail) prior to 9.10 has been deprecated in 9.10, and will be removed in 9.12. While the previous portlet is no longer accessible through My webMethods navigation, the portlet will still be functional on a user's workspace until it is removed in the next release (9.12). Users migrating from a release prior to 9.10 who have a KPI Instance Detail portlet added to a workspace should manually remove the old portlet instance(s) from their workspace and re-add the new KPI Instance Detail portlet using the usual procedure (see steps below).
	To re-add the KPI Instance Detail portlet to a workspace:
	1. Open the workspace containing the KPI Instance Detail portlet.
	2. Copy the KPI instance name shown above the graph.
	3. Navigate to the Analytics Overview.
	4. Select the Configuration appropriate for the KPI.
	5. Search for the KPI instance name copied from step 2. Surround the name with quotes (") for an exact match.
	6. Expand the tree if necessary and view the detail for the KPI instance.
	7. Render the detail using the desired time range.
	8. Add the detail portlet to the desired workspace.
	8.1 Open the portlet menu.
	8.2 Select Add to Workspace.
	8.3 Select the desired workspace.

9.0   Added, Removed, Deprecated, or Changed APIs

A release is listed in this section only if changes occurred in that release.

10.0 Copyright Information

11.0 Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the Tech Community website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

OPTPROC-RM-1011-20211015

webMethods RPA Integration 10.3 Readme

October 2018

This file contains important information you must read before using webMethods RPA Integration 10.3. You can find system requirements, user documentation, and installation and upgrade instructions on the Documentation website or the TECHcommunity website. At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0   Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0   Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

▪   When an error occurs, the Kryon Web API REST service returns HTTP response, not JSON response. The HTTP response might be difficult to handle as part of a flow service.
    There is currently no workaround for this issue.

3.0   Usage Notes

This section provides any additional information you need to work with the current release of this product.

4.0   Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

5.0   Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.3

webMethods RPA Integration is a new web help that explains how to use webMethods RPA Integration to create and monitor RPA tasks executed by Kryon unattended robots. You can also download this help as a PDF guide called *Integrating with Robotic Process Automation*.

7.0   Terminology Changes

A release is listed in this section only if changes occurred in that release.

8.0   Added, Removed, Deprecated, or Changed Items

This section lists features, functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

9.0   Added, Removed, Deprecated, or Changed Built-In Services

A release is listed in this section only if changes occurred in that release.

10.0 Added, Removed, Deprecated, or Changed Parameters

A release is listed in this section only if changes occurred in that release.

11.0 Added, Removed, Deprecated, or Changed APIs

A release is listed in this section only if changes occurred in that release.

12.0 Copyright Information

13.0 Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the TECHcommunity website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

RPI-RM-103-20190115

webMethods Service Development 10.11 Readme

October 2021

This file contains important information you must read before using webMethods Service Development 10.11. You can find user documentation on the [Documentation website](#) or the [Tech Community website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0   Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

None.

2.0   Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

- WED-9412
  Switching between the Pipeline and Data Mapper views applies smart mapping recommendations to a flow service without the user's acceptance.
  While using smart mapping recommendations for a flow service, switching between the Pipeline and Data Mapper views applies the recommendations even though the user does not click "Accept selected" or "Accept All".
  As a workaround, use smart mapping only in the Pipeline view or avoid switching between the Pipeline and Data Mapper views.

- WED-9188
  Designer shows the following issues while creating a flat file schema from a sample file:
  - When you select delimited and variable length record parser types, Designer does not enable the focus on the "Next" button for the first time after providing the record parser details.
  - When you select "Delimited with fixed length fields" as record parser type, Designer does not recognize the record delimiter for the last record.
  As a workaround for the first issue, you need to click on the "Next" button twice.
  There is no workaround for the second issue.

- WED-8826
  Designer does not enable the Edit menu options when assets are created using the File menu.
  While creating the assets using the "File > New" menu, Designer does not enable the Edit menu options, such as, 'Cut', 'Copy', and 'Paste' immediately after the assets are created.
  As a workaround for the issue, you can either change the selection to a different node under 'Package Navigator' after the assets are created or create the assets using the right-click context menu.

- WED-8695
  Designer does not expand the assets in the Package Navigator automatically when a consumer REST API Descriptor (RAD) is generated.
  In the Linux operating system, when a consumer RAD is generated, Designer does not expand and refresh the generated assets automatically in the Package Navigator view.
  As a workaround for this issue, right-click on the folder and select 'Refresh'; or press F5 to refresh the generated assets in the Package Navigator.

- WED-9514
  Moving or renaming a gRPC descriptor, gRPC method flow service, or gRPC document type breaks the gRPC descriptor implementation.
  While Designer permits moving and renaming of gRPC descriptors and its associated artifacts, moving, renaming, or copying and pasting any of these elements breaks the gRPC descriptor.
  To place a gRPC descriptor and its artifacts in a different location, first delete the existing gRPC descriptor and then recreate it in the new location.

- WED-8456
  Designer does not display the indentation ruler while creating a flat file schema for fixed length parser types.
  In Linux, while creating a flat file schema using a sample file for fixed length parser type, Designer does not display the indentation ruler for fields and subfields.
  There is no workaround for this issue.

- WED-7129
  Logged Fields view fails to reflect the updated signature structure.
  If you merge a service signature structure, then the Logged Fields view does not reflect the updated signature structure.
  There is no workaround for this issue.

- WED-7127
  Issues with compare and merge functionality for Adapter elements.
  In Designer, compare and merge functionality for Adapter elements allows you to track and merge changes from the same server or from different servers and from the version control history. However, the following issues exist with this functionality for Adapter elements:
  - Sometimes, comparing two adapter services that are created with the SELECT template fails after updating the element, as the compare editor highlights only the empty rows and cells.
  - For Adapter update Notification elements, row indexes are improperly calculated while merging the "Added" table data from left to right direction.
  – In some cases merging two different Adapter Services fails with following exception:
  "Internal error. Unexpected value at 'com.softwareag.is.ui.diffmerge.internal.UndoableMergeDiffNodeOperation#addTypedAdapter: Expected 'com.softwareag.is.compare.structure.IComparatorElement', actual 'null'."
  There are no workarounds for these issues.

- WED-6713
  In the IS Asset Compare view, you cannot merge the enabled or disabled property of a flow step or transformer obtained from comparing two Integration Server elements.
  There is no workaround for this issue.

- WED-6227
  During refactoring, preview of the new and old value is unavailable for webMethods messaging trigger.
  There is no workaround for this issue.

- WEL-6
  When you use Team Foundation Server (TFS) as your VCS client, TFS issues an IllegalArgumentException exception when sharing the local service development project.
  To work around this issue, clear the 'Connect mapped projects to TFS automatically' check box in Window > Preferences >Team > Team Foundation Server before sharing the local service development project.

3.0   Usage Notes

This section provides any additional information you need to work with the current release of this product.

- In version 10.11, a user has the option to change the Integration Server Administrator's password through the installer, which affects the way Designer connects to Integration Server at start-up.

  If the user chooses to change the Integration Server Administrator's password during installation, Designer creates a secure storage entry for Integration Server connection with host, port, user, and an empty password. However, in earlier versions, the default password provided by Integration Server was used, and Designer would automatically connect to Integration Server. Now, you must set the password in the server definition and connect manually.

- WED-7369
  In Designer, on clicking the Authorize button and then the Close button on the Swagger UI tab of a REST API descriptor, the Swagger UI hangs.
  To work around this issue, close and open the Swagger UI.

- XML Schema 1.1 is not supported on AIX.
  The Xerces library in AIX supports XML Schema 1.0 only. Attempts to use XML Schema 1.1 features on an Integration Server running on AIX results in schema syntax errors and the schema does not compile.

- Web services functionality can be excluded from a Docker image created for a Microservices Runtime.

  Beginning with version 10.11, the web services functionality can be excluded from a Docker image created for a Microservices Runtime. If you use a Microservices Runtime in a Docker container as the local development server and the web services functionality is excluded from the container, you cannot create or modify web services descriptors or SOAP-JMS triggers.

4.0   Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Release 10.11

- ESB_10.7_Fix2

- ESB_10.5_Fix12

- ESB_10.3_Fix19

- ESB_10.1_Fix17

Release 10.7

- ESB_10.5_Fix9

- ESB_10.3_Fix17

- ESB_10.1_Fix15

- ESB_9.12_Fix16

- ESB_9.8_Fix10

Release 10.5

- ESB_9.12_Fix11

- ESB_10.1_Fix9

- ESB_10.3_Fix10

- ESB_10.4_Fix2

Release 10.4

- ESB_9.9_Fix9

- ESB_9.10_Fix9

- ESB_9.12_Fix10

- ESB_10.1_Fix7

Release 10.3

- ESB_10.1_Fix6

- ESB_10.2_Fix2

Release 10.2

- ESB_9.6_Fix7

- ESB_9.7_Fix10

- ESB_9.8_Fix7

- ESB_9.9_Fix8

- ESB_9.10_Fix8

- ESB_9.12_Fix9

- ESB_10.1_Fix3

Release 10.1

- ESB_9.6_Fix6

- ESB_9.8_Fix6

- ESB_9.9_Fix7

- ESB_9.10_Fix5

- ESB_9.12_Fix6

- ESB_10.0_Fix2

Release 10.0

- ESB_9.5_SP1_Fix9

- ESB_9.7_Fix9

- ESB_9.8_Fix5

- ESB_9.9_Fix5

- ESB_9.10_Fix3

- ESB_9.12_Fix2

Release 9.12

- ESB_9.10_Fix2

- ESB_9.9_Fix3

- ESB_9.8_Fix4

- ESB_9.7_Fix7

- ESB_9.5_SP1_Fix8

Release 9.10

- ESB_9.9_Fix2

- ESB_9.8_Fix2

- ESB_9.7_Fix5

- ESB_9.6_Fix5

5.0   Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Release 10.4

- WED-7612
  The Designer does not display the differences between two ForEach mappings of flow services.
  While comparing ForEach mappings between two flow services, Designer does not display the differences.
  The issue is now resolved.

Release 10.2

- WED-6898
  The Designer session keeps retrying a connection if sessions are not closed explicitly by the user.
  When a user does not close the Designer sessions explicitly, Designer restores the connection to the Integration Server with old credentials and Integration Server raises a flowTimeoutException.
  The issue is now resolved. Designer identifies the condition when credentials are invalid and then stops the connection.

- WED-7121
  Unable to create web service descriptor from Designer.
  Creating a Web Service Provider and Consumer descriptor in Designer fails with following error:
  'http://apache.org/xml/features/disallow-doctype-decl' not recognized.
  This issue is now resolved.

Release 10.1

- WED-6957
  Execute an Adapter service with InputFieldType (in the Which tab) 'java.lang.Byte' by providing a value that exceeds the limit, an error message appears informing the same. Later, if you execute the same Adapter service by changing the InputFieldType to 'java.lang.String', the same error message

appears preventing the service execution, even if you provide correct values.
This issue is now fixed.

- WED-6846
  In a transformer, if the output variables (Pipeline Out to Service Out or the reverse way) are mapped before the input variables (Pipeline In to Service In or the reverse way), the map step containing the transformer saves an incorrect value and hence, the flow service fails with incorrect results.
  This issue is now fixed.

- WED-6434
  When using Designer to invoke the pub.flow:setResponseCode service, if the responseCode input variable value is set to 204, the Results view displays an exception.
  This issue is now fixed.

Release 10.0

- WED−6370
  Dropping an input array variable that is part of a ForEach mapping results in an exception.
  This issue is now fixed.

- WED−6311
  Changes made in Pipeline view do not reflect in the Data Mapper view immediately.
  This issue is now fixed.

Release 9.12

- WED-6034
  Designer fails to handle the URL redirections while creating Integration Server elements.
  In Designer, if the URL has redirection, creation of Integration Server elements, such as web service descriptors, document types, and Integration Server schema from external URL fail.
  This issue is now fixed.

- WED-5592
  Tooltips remain frozen in Designer.
  In Designer, the document or flow editor tooltips remain on the screen even after closing the editor using the keyboard shortcut Crtl+W.
  This issue is now fixed.

- WED-5820
  Designer fails to display the details of Forms tab for Custom Remedy Adapter.
  Forms tab does not display the details of Custom Remedy Adapter service such as the 'Selected Form' details in Designer.
  This issue is now fixed.

- WED-5611

Web service descriptor fails to generate xsd:any element and attributes when the 'Allow unspecified fields' property is set to true.

The WSDL document for a web service descriptor does not include the xsd:any element and attributes when the web service descriptor uses a Document variable for which the 'Allow unspecified fields' property is set to true. This issue occurs even if the server configuration parameter watt.core.schema.createSchema.omitXSDAny is set to false.

This issue is now fixed.

- WED-5210

  When unresolved package issues are manually resolved in a Java service, Designer does not append the import details correctly to other Java services in the same folder of the package if they are also open in the editor.

  While editing Java services, upon doing an Organize Imports operation in a Java service, Designer removes necessary import details of other Java services that are in the same folder in the package if they are currently open in the editor. If the import details that are removed from the other services are manually resolved, the import details of the first service get corrupted, instead of getting appended to the existing import details.

  This issue is now fixed.

- WED-6204

  The field name abbreviator, as used for XmlData, truncates the field names that start or end with '#'.

  When you run a flow service, Designer fails to display the parameter names that start or end with # in the Results window. The Field name abbreviator, as used for XmlData, truncates the field names that start or end with '#'.

  This issue is now fixed.

Release 9.10

- WED-5339

  After installing a fix or a version of Integration Server that includes PIE-30233, a pipeline link (map or mapping) where the destination is a Document reference variable with an unresolved document type reference, behaves differently at run time.

  When executing the pipeline link, at run time, Integration Server ignores the field order defined in the target Document reference variable which results in unpredictable field ordering in IData.

  This issue is now fixed.

  Note: Integration Server versions 9.7, 9.8, and 9.9.

- WED-5692

  There is no keyboard shortcut to drop variables from the pipeline.

  This issue is now fixed. Ctrl+Shift+O is the new keyboard shortcut to drop variables from the pipeline.

- WED-5584

  While searching for Integration Server elements in all packages, Designer does not work as expected when installed with a non-English language pack.

  If you select **All Packages** option while searching for an Integration Server element in Designer

(Search -> Integration Server), Designer searches for the element in all the packages before displaying the results. However, if Designer is installed with a language pack other than English, Designer does not search for the element in all packages. As a result, no results are displayed. This issue is now fixed.

- WED-5397
  Performance of Designer slows down when saving a flow service with many service references. While saving a flow service, Designer checks whether the services referenced in the flow service exists. As a result, if there are a large number of service references in the flow service, the performance of Designer slows down.
  This issue is now fixed. A new flow service editor preference is introduced. In the Flow Service Editor preferences page, if you do not want Designer to validate the referenced services while saving a flow service, clear the Validate service references while saving check box. Clearing this preference improves the performance of Designer while saving a flow service. By default, this check box is not selected. Select the Validate service references while saving check box if you want Designer to validate the referenced services while saving a flow service.

- WED-5210
  When user selects Organize Imports to fix a JAVA service, it fixes the import statements of that service but the import statements in other JAVA services fails in the same folder.
  This issue is now fixed.

- WED-5464
  If CentraSite is selected as the source of the WSDL or XML schema definition, Designer does not display the child organizations when creating a web service descriptor or an IS document type. When creating a consumer or WSDL first provider web service descriptor from a service asset in CentraSite or an IS document type from an XML Schema definition in CentraSite, Designer does not display the assets that belong to the child organizations.
  This issue is now fixed. Now, if Centrasite is selected as the source of the WSDL or XML schema definition when creating a web service descriptor or an IS document type, Designer lists the child organizations

- WED-5465
  If you set the Pre-8.2 compatibility mode property to true for a web service descriptor using Designer, StackOverflowException occurs.
  If the web service descriptor contains a recursive document type reference, using Designer to set the Pre-8.2 compatibility mode property to true results in a StackOverflowException.
  This issue is now fixed.

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.11

- Service Development Help contains a new topic, "OpenAPI-Based Consumer REST API Descriptors" under the chapter "Working with REST API Descriptors", which describes how to create a consumer REST API descriptor using an OpenAPI document.

- Service Development Help contains a new topic, "Using Smart Mapping" under the "Mapping Data in Flow Services" chapter, which describes the functionality to simplify the mapping between the pipeline variables for MAP and INVOKE steps.

- Service Development Help contains a new topic "Working with gRPC Descriptors" which describes how to create an executable IS asset from a gRPC service definition in a .proto file.

- All UDDI-related contents are removed from Service Development Help including the "Working with UDDI Registry" chapter and the "UDDI Registry View Icons" and "UDDI Registry View Toolbar" topics.

- The "Building Cloud Connector Services" and "Creating Connector Listeners" chapters are removed from Service Development Help and are available in "webMethods CloudStreams Connector Concepts Guide".

Release 10.7

- Service Development Help contains a new topic, "OpenAPI Based REST API Descriptors", which explains how to create a REST API descriptor based on an OpenAPI document and the details of the various assets that Integration Server generates.

- Service Development Help contains a new topic, "Using the Cloud Service Development Feature", which explains how to access the cloud service development perspective and use the feature.

- Service Development Help contains a new topic, "Universal Messaging Preferences", which explains the fields on the "Window > Preferences > Software AG > Universal Messaging" page.

- Added a new topic, "Mapping Integration Server Content Type Constraints to Swagger Type Constraints" in the "Working with REST API Descriptors" chapter of the Service Development Help.

- The contents of the "REST Developers Guide" are merged into the "Service Development Help" under "Working with REST API Descriptors" chapter and under a new chapter "Appendix".

Release 10.5

- Service Development Help contains a new topic," Working with MQTT Triggers", which explains what an MQTT trigger is and how to build an MQTT trigger using Designer.

Release 10.4

- The *Configuring the VCS Integration Feature* guide is no longer available, and the chapter entitled "Using the VCS Integration Feature to Check Elements in and Out of a VCS" is no longer part of the Service Development Help. The guide and related chapter explained how to use the functionality delivered in the WmVCS package to integrate Integration Server elements with a version control system. However, the WmVCS package is no longer delivered with Integration Server.

Release 10.3

- Service Development Help contains a new chapter," Deploying to Cloud", which explains how to deploy Integration Server packages and configuration assets (Integration Server and Universal Messaging configurations) to Integration Cloud using Designer.

- Service Development Help contains a new chapter, Command Central Preferences, which explains how to customize Landscape navigator view, monitoring, and project settings for Command Central runtime components using Designer.

- Service Development Help contains a new chapter, Integration Cloud Preferences, which describes the settings required for configuring an Integration Cloud connection.

- Service Development Help contains a new chapter, "Working with Recipes", which explains how to install or download and use recipes as a package using Designer.

Release 10.2

- Service Development Help contains a new chapter, "Publishing and Retracting Metadata for IS and TN Assets," which explains how to publish and retract metadata for Integration Server (IS) assets, and Trading networks (TN) document types to and from the CentraSite shared registry.

- The *Developing Microservices with webMethods Microservices Container* guide has been renamed *Developing Microservices with webMethods Microservices Runtime* to reflect the product name change from webMethods Microservices Container to webMethods Microservices Runtime.

- Service Development Help contains a new chapter, "Working with WebSocket Endpoints", which explains what a WebSocket endpoint is and how to create a WebSocket client endpoint and WebSocket Server endpoint.

Release 10.0

- Service Development Help contains a new topic, Building Map Services, which explains what a map service is, and how to create a map service.

7.0   Terminology Changes

A release is listed in this section only if changes occurred in that release.

Release 10.3

Old Term	New Term
Named object	Durable subscription or durable.
	As of Universal Messaging version 10.2, the term *named object* has been replaced with *durable subscription* or its abbreviated form *durable*.
	A serial webMethods messaging trigger corresponds to a serial durable subscription (or the abbreviated serial durable) on Universal Messaging. A concurrent webMethods messaging trigger corresponds to a shared durable subscription (or the abbreviated shared durable) on Universal Messaging.

Release 10.2

Old Term	New Term
webMethods Microservices Container	webMethods Microservices Runtime

8.0 Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 10.11

Added Item	Description
gRPC support	Designer can create gRPC descriptors from gRPC service definitions. Developers can then implement the flow services that correspond to the gRPC methods. gRPC clients can invoke these services remotely.
OpenAPI-based consumer REST API descriptor	Users can create a consumer REST API descriptor using an OpenAPI document that conforms to the OpenAPI 3.0.x specification.
Azul Java 11 runtime support for Designer Service Development	Designer Service Development now uses the Azul Java 11 runtime environment instead of Java 1.8.
Smart mapping	The feature predicts the possible mappings between the input and output of a pipeline for a flow service and displays the mappings categorized as 'Very likely', 'Medium likely' and 'Little likely'.
User interface to view deployable assets and include or exclude assets during deployment.	While deploying Integration Server assets to a target environment, Designer displays the deployable assets that include the existing and deleted assets in the environment. Users can choose to retain or remove an asset from the deployment.
New Java wrapper types for Object and Object List parameters.	Designer now supports the 'java.math.BigInteger' and 'java.math.BigDecimal' Java wrapper types for the Object and Object List parameters.

Removed Item	Replacement, if any
UDDI support in Designer	CentraSite, which is the default UDDI registry for Designer does not support UDDI v2 or v3 now. Hence, service development using UDDI registry is not possible and the UDDI-related functionalities are removed from Designer.

Changed Item	Description
Universal Messaging client window size for serial webMethods messaging trigger	For a serial webMethods messaging trigger that receives documents from Universal Messaging, the corresponding client window size is now set to 1 to ensure serial processing order. Previously, Integration Server did not set the client window size for a serial webMethods messaging trigger. Instead, the serial trigger relied on the default value set in Universal Messaging, which is 100.

Release 10.7

Added Item	Description
Retention of the protocol buffer definition for a publishable document type that uses protocol buffer encoding.	When you save a publishable document type for which protocol buffers is the encoding type, Integration Server creates a protocol buffer definition. The protocol buffer definition represents the structure and content of the document type as a protocol buffer, including the names, types, and attributes for the fields. Integration Server saves the human-readable protocol definition file named pdt.proto in the same location as the node.ndf for the publishable document type. Previously, Integration Server did not retain the protocol buffer definition.
XML Schema Definition Language 1.1 support	Integration Server now provides support for many of the features introduced in XML Schema 1.1. A detailed list of supported features and unsupported features can be found in the *webMethods Service Development Help.*
Prefetch cache support for JMS triggers	JMS triggers that receive messages from Universal Messaging can now use a prefetch, or consumer, cache. Each time the JMS trigger requests more messages from Universal Messaging, the JMS trigger can retrieve multiple messages which are then placed in a cache. The JMS trigger processes messages from the cache instead of requesting messages from Universal Messaging.
OpenAPI based provider REST API descriptors	Users can create a provider REST API descriptor using an OpenAPI document that conforms to the OpenAPI specification 3.0.x.

Added Item	Description
Delimited with fixed length fields record parser types	When you create a flat file schema from a sample file, if each record is separated by a record delimiter and fields are of type fixed length, you can select "Delimited with fixed length fields" option.
Create flat file schema without dictionary	Clear "Create flat file schema with dictionary" check box if you want to create the flat file schema without a flat file dictionary.
Configuring a Universal Messaging server	When you want to deploy Universal Messaging configurations assets to Cloud Container, you must configure Designer to connect to a Universal Messaging server under "Window > Preferences > Software AG > Universal Messaging".
Choose the REST operations from the selected Swagger document	While creating a Swagger based consumer REST API descriptor (RAD), you can select the REST operations to be included in the generated RAD.
Support to view and debug the cloud assets using the Cloud Explorer view toolbar	The Cloud Explorer view in Designer lists all the active solutions present in the Cloud Container along with the packages and Integration Server elements.
Multiple packages can be moved to Integration Server packages directory	You can select single or multiple packages and move them to the Integration Server directory by right-clicking the package(s) and selecting "Move Project to IS Package" in Package Explorer view.
REST V2 resources support HTTP HEAD method	Designer provides the HEAD option as one of the supported HTTP methods in the REST V2 resource editor.
Environment variables can be used as values of substitution variables during ACDL- based deployment.	When deploying to Cloud Container or any other ACDL-based deployment, the value of an environment variable can be used as the substitution value.
Enhanced support for JSON Schema	Integration Server offers enhanced ease of use while working with JSON Schemas. The enhanced JSON Schema feature provides lucid and easy to understand messages while creating and validating JSON documents using the built-in JSON schema services. With the enhanced support, JSON document types can be validated when used in the flow service signature at runtime.

Removed Item	Replacement, if any
Creation of REST resources and REST API descriptors using the legacy approach	

Changed Item	Description
webMethods Broker (Deprecated) property category	The webMethods Broker (Deprecated) category name has been changed to Universal Messaging and Broker to reflect that the properties can be used with JMS triggers that receive messages from Universal Messaging as well as from Broker. Note that webMethods Broker remains deprecated.
GraphQL Descriptor resolver service	The output signature of the resolver services for a GraphQL Descriptor is modified. The *$outputObjectType* field is removed from the output of the resolver services and the *$typeName* field is added to all the object, interface, and union document types. However, the old resolver services that have *$outputObjectType* continue to work.

Release 10.5

Added Item	Description
Comparing package artifacts in the file system	When comparing two packages, Designer recurses the file system directories for the packages and returns a list of differences for the package artifacts.
MQTT triggers	An MQTT trigger subscribes to a topic on an MQTT server and then specifies how Integration Server processes the messages the trigger receives.
Support for GraphQL Dataloader	Dataloader is a utility that improves the performance of your GraphQL query. Designer provides a graphical wizard to create Dataloader for a GraphQL descriptor.
Option to include the API Name and Version during publish	You can now specify an API name and version when you publish or republish a descriptor to API Gateway.

Added Item	Description
Support for the "readOnly" and "writeOnly" JSON schema annotations	The new Read only and Write only properties in Designer provide support for the "readOnly" and "writeOnly" JSON schema annotations.
Flat file schema wizard enhancement	Designer provides a graphical wizard for defining a flat file schema for multiple and nested records.
Creating consumer REST API descriptors	Designer provides an option to create consumer REST API descriptors using the Swagger first approach.
OAuth security schemes support for REST API descriptors	Designer supports the creation of security definitions based on OAuth security schemes You can add these security definitions to REST resources and REST operations.

Deprecated Item	Replacement, if any
Creating a REST Resource using the legacy approach	None.

Release 10.4

Added Item	Description
API Gateway preference	Integration Cloud preference page enables Designer to connect to Integration Cloud (Window > Preference > Software AG > API Gateway).
	The API Gateway metadata repository type in the Asset publish wizard helps a user to configure connections to API Gateway and publish assets.
JSON schema	Designer provides an option for creation of JSON document type from a JSON schema using the JSON document type creation wizard.
GraphQL descriptor	Designer provides an option for creation of GraphQL descriptor from GraphQL descriptor creation wizard.

Added Item	Description
Swagger missing spec enhancements to REST API descriptor	Designer provides the following Swagger specification options for a REST API descriptor: - Creating and associating security definitions and providing the reference to external documentation for REST operations and the REST API descriptor. - Creating and associating tags for the REST operations.
Flat file schema wizard enhancement	Designer provides a graphical wizard for defining a flat file schema. Developers use the wizard to upload a sample flat file and then identify the fields using a graphical click-and-configure interface.
Deployment Status Tracking	A new view 'Deployment Status 'is added under Window > Show View > Other… to view deployment status.
Create a Rich Editor for run time configurations (YAML) in Designer feature	Designer provides validation support for YAML content.
Wrap response root element	Specifies whether Integration Server should wrap the output signature and generate the root element for the REST response.
Match payload with Swagger	Specifies whether Integration Server should match the JSON format request payload for REST APIs as per the Swagger definition or according to the service input signature.

Deprecated Item	Replacement, if any
Web services implementation introduced in Integration Server 7.1.	The current web services stack. Web service descriptors can be changed to work with the web services stack by changing the Pre-8.2 compatibility mode property to false. A bulk change of web service descriptors can be accomplished using the built-in service pub.utils.ws:setCompatibilityModeFalse.
	Deprecation of the web services implementation introduced in Integration Server 7.1 results in the deprecation of the following:
	• The ability to run in pre-8.2 compatibility mode.
	• The Pre-8.2 compatibility mode property.
	• The Integration Server WS-Security facility which provides support for WS-Security by associating built-in WS-Security handlers to web service descriptors.
	Note: Securing web services using WS-SecurityPolicy is not deprecated. For information about how WS-SecurityPolicy compares to the Integration Server WS-Security facility, including a comparison of policies provided for each, see the *Web Services Developer's Guide*.
	• Any behavior specific to the web services implementation introduced in 7.1.
	For more information about the differences between the 7.1 web services implementation and the web services stack, see the "About Pre-8.2 Compatibility Mode" section in the "Working with Web Services" chapter available in the *Web Services Developer's Guide* or *webMethods Service Development Help*.

Changed Item	Description
Path to Base Path	The field name "Path" displayed while creating a REST API descriptor using a REST resource is changed to "Base Path".

Release 10.3

Added Item	Description
EXIT step Exit from property value $iteration	The Exit from property now includes $iteration as a possible value to specify exiting from an iteration of the nearest ancestor LOOP or REPEAT flow step.
Enhancements to REST V2 resources for JSON API support	- Designer provides following options for JSON API support in the rest resource creation wizard: "Empty Rest resource and Document type based REST resource" while creating a rest resource.
	- Designer provides an additional tab called "Attribute configuration" for adding attributes to the REST V2 resource.
	- New property "Generate JSON API URLs" is added to the property view of a REST V2 resource.
Integration Cloud preference	Integration Cloud preference page enables Designer to connect to Integration Cloud (Window > Preference > Software AG > Integration Cloud).
Support for Recipes in Integration Server / Designer	A new view called 'Recipes' is added under Window > Show View > Other… for viewing, searching, installing, and downloading the Recipes in Designer.
Support for try-catch block for flow services	Designer provides the TRY, CATCH, and FINALLY flow steps to assist failure handling in flow services
	Additionally, Designer provides a new context menu option called "Transform to > Try Catch Step / Try Finally Step" for SEQUENCE flow step.
	Designer displays a warning icon along with the message upon mouse hover in the flow editor for a semantically incorrect combination of the TRY, CATCH, and FINALLY steps.
Deployment to Integration Cloud	Using Designer, you can now seamlessly deploy your on-premise Integration Server packages and configuration assets to solutions present on Integration Cloud.
Wrap response root element	Specifies whether Integration Server should wrap the output signature and generate the root element for the REST response.

Added Item	Description
Match payload with Swagger	Specifies whether Integration Server should match the JSON format request payload for REST APIs as per the Swagger definition or according to the service input signature.

Changed Item	Description
EXIT step Exit from property	The default value of the Exit from property is now $parent which indicates the flow will exit from the parent flow step, regardless of the type of step. Previously, the default value was <blank> which equated to nearest ancestor LOOP or REPEAT flow step.
Serial webMethods messaging triggers that receive documents from Universal Messaging now process documents from a publisher in publication order in a load-balanced fashion.	Previously, a webMethods messaging trigger with serial processing corresponded to a priority named object on a channel on Universal Messaging server. Now, a serial webMethods messaging trigger corresponds to a serial durable subscription (named objects in Universal Messaging are now called durable subscriptions). This provides processing in publishing order for a serial trigger in a cluster or a non-clustered group of Integration Server. Over time, it allows for the Integration Server in a cluster or non-clustered group to process messages in a load balanced fashion.

Release 10.2

Added Item	Description
WebSocket Endpoints	You can configure a WebSocket endpoint that act as a server or client type. Implementation of WebSocket endpoints and its accompanying services enable you to develop and deploy applications that communicate with clients.
Circuit Breaker	You can configure a circuit breaker feature for a service that resides in a webMethods Microservices Runtime. To configure a circuit breaker with a service running on Integration Server, your Integration Server must have additional licensing.

Sync to DES property for IS document types	Indicates whether Integration Server automatically synchronizes this document type with a corresponding Digital Event Services event type definition in the Digital Event Services repository upon save. Set this property to true if the document type is used to define the structure and content for the value of an "any" field in a document that is published to Digital Event Services.
Enhancements to REST API descriptor	– Designer provides a Swagger UI view that surfaces the open source Swagger UI and Try it out option developed for Swagger. – Swagger Syntax Coloring preference page is now available to set the font color and styles of tokens in a Swagger document. – Run option in the REST API descriptor editor enables execution of selected REST operations available in REST API descriptor.
Enhanced support for REST V2 resources	New properties are added to the property view of a REST V2 resource.

Removed Item	Replacement, if any
Creating an IS document type from a file in webMethods Content Service Platform	None. The webMethods Content Service Platform is no longer available.

Release 10.1

Added Item	Description
Support for REST V2 resources	REST V2 resources provide a flexible way of defining resources for REST requests. In the Service Development perspective, a developer can define a REST V2 resource with operations that include the following: • The format of the URL that REST clients must follow when sending requests to Integration Server acting as the REST server. • The HTTP methods supported by the resource operation. • The flow service associated with a resource operation.

Added Item	Description
Support for REST API descriptors for REST V2 resources	In addition to creating REST API descriptors from resources that use the rest directive, the Service Development perspective now provides the ability to create REST API descriptors from REST V2 resources.
Support for REST API Descriptor from Swagger Document	The Service Development perspective now provides the ability to create REST API descriptors from external Swagger documents accessible through a URL, a REST resource on API Portal, or a REST resource residing in CentraSite.
Microservices Container running in a Docker container as local service development server.	Designer provides support for the local service development feature to use a Microservices Container running in a Docker container as the local development server.

Removed Item	Replacement, if any
REST Resource Configuration	The REST Resource Configuration page of the Properties dialog box for a selected service option has been removed. An alternate option is provided through the creation of new REST V2 assets.

Release 10.0

Added Item	Description
Case sensitive check box	The Case sensitive check box in the Integration Server Search tab of the Search menu allows you to perform a case-sensitive search for the names of Integration Server elements.
Exact match check box	The Exact match check box in the Integration Server Search tab of the Search menu allows you to search for an Integration Server element with a name that exactly matches the specified search string.
Map service	Designer allows you to create map services that can be reused in different flow services. A map service can be used to map document types of different formats.

Added Item	Description
PATCH check box	The PATCH check box in the New REST Resource configuration wizard of the Service Development perspective allows you to specify PATCH as a supported method for creating a REST resource.
REST Resource Configuration	The REST Resource Configuration page of the Properties dialog box for a selected service provides you with options to configure, edit, and delete REST resources for the service.
Convert to Local Service Development Project	Using the Convert to Local Service Development Project option in the context menu allows you to convert a non-Local Service Development package to a Local Service Development package by adding the VCS and Java project nature to packages that contain the Java and C/C++ services.
ForEach debugging	Designer now allows you to debug a ForEach mapping.
Allowed HTTP Methods property	The Allowed HTTP Methods property for a service enables you to select the HTTP methods that you can configure for the service. The supported methods are GET, HEAD, PUT, POST, PATCH, DELETE, and OPTIONS.

Removed Item	Replacement, if any
Add VCS project Nature	Convert to Local Service Development Project in the context menu allows you to add the VCS and Java nature to packages while you are working with local service development.

Changed Item	Description
Port alias property	For a binder in a provider web service descriptor, you can now set the Port alias property to the default provider endpoint alias when the binder uses the HTTP or HTTPS protocol.

Release 9.12

Added Item	Description
Comparing and merging JMS triggers, adapter services, and adapter connections	JMS triggers, adapter services, and adapter connections can now be visually compared and differences between versions can be merged. Previously, merging was available only for flow services and IS document types.
Debug to Here	Debug to Here option in the context menu allows you to debug a flow service up to the specified flow step.
Data Mapper	Data Mapper view in Designer allows you to execute, modify, and test a MAP step without saving the flow service.
ForEach mapping	Designer provides ForEach mapping approach in the pipeline view of a MAP step to simplify array mapping and array data processing.
Move project to Integration Server package as linked resource	Move project to Integration Server package as linked resource option in the Local Service Development Preferences, allows you to set any repository on your workspace as the local repository directory and a linked directory is created under the Integration Server_directory\instances\default\packages directory.
Digital Event Services (DES)	From Designer, a user can integrate with Digital Event Services using the existing webMethods Messaging infrastructure. Also, Annotations property is now available for publishable document types that use the IS_DES_CONNECTION messaging connection alias.
Search and Refactor	Search functionality now provides the ability to search for a variable and identify all references to that variable in other assets, such as flow services, document types, specifications, and triggers. The Refactor option in the context menu allows you to refactor the input/output variables of various Integration Server assets (for example, flow services, Java services, specifications, documents type).

Added Item	Description
API Portal	The API Portal metadata repository type in the Asset publish wizard helps a user to configure connections to API Portal and publish REST API descriptors.

Changed Item	Description
Processing mode property default	The default processing mode for JMS triggers and webMethods messaging trigger is now changed from Serial to Concurrent. The value for 'Max execution threads' is changed from 10 to 1.
Encoding type property default	The default encoding type for publishable document type associated with a Universal Messaging connection alias is now Protocol buffers. Previously, the default encoding type was IData.

Added Item	Description
REST API Descriptor	A descriptor for a group of REST services on Integration Server.
Merging Integration Server Elements	Merge capability allows you to merge the differences between two elements on the same server or on different servers. Merging is available for flow services and Integration Server document types.
LCVI: Integration Server instance need not be named 'default' to use as LCVI.	Multiple Integration Server local instances can now be made as Local Version Control Integration Server (LCVI).
Validate service references while saving preference	Flow service editor preference for validating all the referenced services in the flow service upon saving the service.
Rest API Descriptor Preference	Preference for specifying MIME type available for use with REST API descriptors.
OData service creation from external sources	OData service can now be created using an external source type.

Changed Item	Description
REST Resource folder icon	A folder that contains services that function as a REST resource now has a unique icon to differentiate it from a folder that does not contain any services or elements used as a REST resource.

9.0   Copyright Information

Disclaimers of Third Party Products". For certain specific third-party license restrictions, please refer to section E of the Legal Notices available under "License Terms and Conditions for Use of Software AG Products / Copyright and Trademark Notices of Software AG Products". These documents are part of the product documentation, located at https://techcommunity.softwareag.com/and/or in the root installation directory of the licensed product(s).

10.0 Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the Tech Community website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

SD-RM-1011-20211015

Software AG System Management Hub 9.6 Readme

October 2017

This file contains important information you must read before using System Management Hub 9.6. You can find user documentation on the <u>Software AG Documentation website</u>. In addition, the following suite-related information is also available at that location:

webMethods Product Suite Release Notes
webMethods and Intelligent Business Operations System Requirements
webMethods System Cache Specifications
Using the Software AG Installer
Installing webMethods and Intelligent Business Operations Products
Using the Software AG Update Manager (fixes)
Upgrading webMethods and Intelligent Business Operations Products
Product Documentation

You can find the following information in the Products section of the <u>Empower website</u>:

Security Information
Globalization Information

Contents

1.0 Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center portion of the [Empower website](#).

2.0 Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center portion of the [Empower website](#).

3.0 Usage Notes

This section highlights product limitations and changes to product behavior introduced in this release.

▪ The Migration Tool, when used in console mode, cannot migrate single users if the user name contains nonASCII characters. In console mode it also cannot migrate all available users for a particular product if the name of the product contains non-ASCII characters. The migrating is not possible because the communication between the console and the program is byte oriented. The migration of a user, whose user name contains non-ASCII characters, is possible when migrating all users for the specified product, or all users for all products. The migration of users for a product, which name contains non-ASCII characters, is possible when all users for all products are selected for migration. The graphical version (the GUI mode) of the Migration Tool does not have problems with non-ASCII characters.

▪ Configure the following web browser settings:
  - Enable JavaScript.
  - Enable Cascading Style Sheets (CSS) processing

▪ Windows Start Menu
  The Windows start menu does not contain a shortcut to the System Management Hub 9.6 logon screen. Use the following URL to access the logon screen: http://<MIL_NODE>:<port_number>/smh/login.htm. <MIL_NODE> is the host name of the MIL server, for example, "my_pc.softwareag.com", or "localhost" on the local machine. The default Software AG Runtime HTTP port is 10010. You cannot access the 9.6 version logon screen with an 8.2 version shortcut containing the old URL. In this case, you must change the port number in your link to the System Management Hub 9.6 default Software AG Runtime HTTP port (10010).

▪ Using MIL Servers on Remote Machines
  You can use a remote or a local MIL server. See the System Management Hub documentation for the configuration details.

▪ For release information related to the security package distributed with System Management Hub, see the Software AG Security Infrastructure 9.6 readme.

4.0 Fixes and Enhancements

This section describes the fixes and enhancements included in System Management Hub 9.6.

4.1 Fixes and Service Packs Included in This Release

This section lists the latest fix levels and service packs for previous releases that have been included into the current release. If only some issues in a fix or service pack have been included, that partially included fix or service pack is not listed here, and those issues are listed separately in Section 4.2 Resolved Issues. See the Knowledge Center section of the Empower website for more information about fixes and service packs. A release is listed in this section only if changes occurred in that release.

4.2 Resolved Issues

This section lists issues that were resolved in this release and that are not included in the fixes and service packs listed in Section 4.1 Fixes and Service Packs Included in This Release. These issues might have been resolved in a fix or service pack that was not included in its entirety into this release, or they might have been resolved since the last fix or service pack was released. A release is listed in this section only if changes occurred in that release.

4.3 Enhancements

For a detailed list of the enhancements included in System Management Hub 9.6, see the Release Notes available on the Software AG Documentation website.

4.4 Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

4.5 Terminology Changes

A release is listed in this section only if changes occurred in that release.

4.6 Added, Removed, Deprecated, or Changed Items

This section lists product functionality that has been added, removed, deprecated, or changed since the last full release of the product. Deprecated Built-In services and APIs are listed in the relevant sections that follow this one. A release is listed in this section only if changes occurred in that release.

- SSX authentication is not supported in SMH

4.7 Added, Removed, Deprecated, or Changed Built-In Services

This section lists Built-In services that have been added, removed, deprecated, or changed since the last full release of the product. A release is listed in this section only if changes occurred in that release.

4.8 Added, Removed, Deprecated, or Changed APIs

This section lists APIs that have been added, removed, deprecated, or changed since the last full release of the product. A release is listed in this section only if changes occurred in that release.

5.0 Copyright Information

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6.0 Support

To obtain support for webMethods Product Suite components, refer to the following resources:

Empower website
Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products, fixes, and service packs, submit feature/enhancement requests, and more.

Software AG Developer Community for webMethods
Visit the Software AG Developer Community to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

SMH-RM-96-20140415

webMethods Task Engine and wmTaskEngine 10.11

Readme

October 2021

This file contains important information you must read before using webMethods Task Engine 10.7. You can find system requirements, user documentation, and installation and upgrade instructions on the [Documentation website](#) or the [TECHcommunity website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0   Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0   Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

3.0   Usage Notes

This section provides any additional information you need to work with the current release of this product.

- When you use Task Engine with a My SQL Community Edition database version 8.x, My SQL might truncate stored data for business data fields with numerical datatypes.
  This is a database limitation.

- Task Engine instances, running on Integration Server require Universal Messaging for clustering.

4.0   Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Release 10.11

- MWS_10.7_Fix

- TE_10.5_TE_Fix3

- TE_10.5_TC_Fix1

- MWS_10.5_Fix11

- MWS_10.5_SPM_TE_Fix1

- MWS_10.5_SPM_IS_TE_Fix1

- TE_10.3_TE_Fix3

- TE_10.3_TC_Fix1

- MWS_10.3 _Fix19

- MWS_10.3_SPM_IS_TE_Fix1

- MWS_10.2_Fix1

- TE_10.1_TC_Fix1

- MWS_10.1_Fix22

- MWS_10.1_SPM_Fix2

- MWS_10.0_Fix4

- MWS_10.0_SPM_Fix1

- MWS_10.1_SPM_TE_Fix2

- MWS_9.12_Fix40

- MWS_9.12_SPM_Fix2

- MWS_9.12_SPM_TE_Fix2

- TE_9.12_TC_Fix1

- MWS_9.10_Fix33

- MWS_9.10_SPM_Fix1

- MWS_9.10_SPM_IS_Fix1

Release 10.7

- TE_10.5_TE_Fix2

- TE_10.5_TC_Fix1

- MWS_10.5 _Fix9

- TE_10.3_TE_Fix2

- TE_10.3_TC_Fix1

- MWS_10.3 _Fix16

- MWS_10.2_Fix1

- MWS_10.1_Fix19

- MWS_10.1_SPM_Fix2

- MWS_10.0_Fix4

- MWS_10.0_SPM_Fix1

- MWS_10.1_SPM_TE_Fix2

- MWS_9.12_Fix34

- MWS_9.12_SPM_Fix2

- MWS_9.12_SPM_TE_Fix1

- TE_9.12_TC_Fix1

- MWS_9.10_Fix33

- MWS_9.10_SPM_Fix1

- MWS_9.10_SPM_IS_Fix1

Release 10.5

- ▪ TE_10.3_TE_Fix2

- ▪ TE_10.3_TC_Fix1

- ▪ MWS_10.3 _Fix7

- MWS_10.2_Fix1

- ▪ MWS_10.1_Fix11

- ▪ MWS_10.1_SPM_Fix2

- ▪ MWS_10.0_Fix4

- ▪ MWS_10.0_SPM_Fix1

- ▪ MWS_9.12_Fix34

- ▪ MWS_9.12_SPM_Fix1

- ▪ MWS_9.12_SPM_TE_Fix1

- ▪ TE_9.12_TC_Fix1

- ▪ MWS_9.10_Fix31

- ▪ MWS_9.10_SPM_Fix1

- ▪ MWS_9.10_SPM_IS_Fix1

Release 10.4

- TE_10.3_TE_Fix2
- TE_10.3_TC_Fix1
- MWS_10.3 _Fix2
- MWS_10.2_Fix1
- MWS_10.1_Fix7
- MWS_10.1_SPM_Fix1
- MWS_10.0_Fix4
- MWS_10.0_SPM_Fix1
- MWS_9.12_Fix31
- MWS_9.12_SPM_Fix1
- MWS_9.12_SPM_TE_Fix1
- MWS_9.10_Fix29
- MWS_9.10_SPM_Fix1
- MWS_9.10_SPM_IS_Fix1
- MWS_9.9_Fix31
- MWS_9.9_SPM_Fix2
- MWS_9.9_GLUE_Fix2

Release 10.3

- MWS_10.2_Fix1
- MWS_10.1_Fix6
- MWS_10.1_SPM_Fix1
- MWS_10.0_Fix4
- MWS_10.0_SPM_Fix1

- MWS_9.12_Fix27

- MWS_9.12_SPM_Fix1

- MWS_9.12_SPM_TE_Fix1

- MWS_9.10_Fix28

- MWS_9.10_SPM_Fix1

- MWS_9.10_SPM_IS_Fix1

- MWS_9.9_Fix29

- MWS_9.9_SPM_Fix2

- MWS_9.9_GLUE_Fix2

- MWS_9.8_Fix39

- MWS_9.8_SPM_Fix5

- MWS_9.8_GLUE_Fix3

- MWS_9.7_Fix36

- MWS_9.7_SPM_Fix3

Release 10.2

- MWS_10.1_Fix2

- MWS_10.0_Fix4

- MWS_10.0_SPM_Fix1

- MWS_9.12_Fix18

- MWS_9.12_SPM_Fix1

- MWS_9.10_Fix25

- MWS_9.9_Fix22

- MWS_9.9_SPM_Fix2

- MWS_9.8_Fix36

- MWS_9.7_Fix34

- MWS_9.6_Fix26

- MWS_9.5_SP1_Fix31

- MWS_9.0_SP1_Fix16

Release 10.1

- MWS_10.0_Fix2

- MWS_9.12_Fix9

- TE_9.12_TC_Fix1

- MWS_9.10_Fix17

- MWS_9.9_Fix18

- TE_9.9_TC_Fix2

- MWS_9.8_Fix28

- MWS_9.8_GLUE_Fix3

- TE_9.8_TC_Fix1

- MWS_9.7_Fix29

- TE_9.7_TC_Fix2

- MWS_9.6_Fix23

- TE_9.6_TC_Fix2

- MWS_9.5_SP1_Fix29

- MWS_8.2_SP1_Fix31

Release 10.0

- MWS_9.12_Fix3

- MWS_9.10_Fix9

- MWS_9.9_Fix10

- MWS_9.8_Fix20

- MWS_9.7_Fix23

- MWS_9.6_Fix19

- MWS_9.5_SP1_Fix24

- TE_9.9_TC_Fix1

- TE_9.7_TC_Fix2

- TE_9.6_TC_Fix2

Release 9.12

- MWS_9.10_Fix2

- MWS_9.10_SPM_Fix1

- MWS_9.10_SPM_IS_Fix1

- MWS_9.9_Fix5

- MWS_9.9_GLUE_Fix2

- MWS_9.9_SPM_Fix1

- MWS_9.8_Fix12

- MWS_9.8_SPM_Fix4

- MWS_9.7_Fix16

- MWS_9.6_Fix16

- MWS_9.6_SPM_Fix3

- MWS_9.5_SP1_Fix22

- MWS_9.0_SP1_Fix13

- MWS_8.2_SP1_Fix28

- TE_9.8_TC_Fix1

- TE_9.6_Fix1

- TE_9.5_SP1_TC_Fix3

Release 9.10

- MWS_9.9_Fix2

- MWS_9.9_GLUE_Fix1

- MWS_9.8_Fix8

- MWS_9.8_GLUE_Fix1

- MWS_9.7_Fix12

- MWS_9.6_Fix10

- MWS_9.6_GLUE_Fix1

- MWS_9.5_SP1_Fix15

- MWS_9.0_SP1_Fix9

- MWS_8.2_SP1_Fix26

- TE_9.7_TC_Fix1

- TE_8.2_SP1_TC_Fix7

5.0   Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Release 10.11

- WTN-5248
  Adding a comment to a task instance using the Task Engine REST services in My webMethods Server fails with a "500 Internal Server Error".

  The issue is resolved.

- WTN-5240
  When installing the Task Client package on Microservices Runtime, the required dependency to My webMethods Server Libraries does not get selected automatically and all Task Engine services, or attempts to modify the default configuration of the package fail with an error.

  The issue is resolved.

Release 10.7

- WTN-5216
  Task Engine on Integration Server might not parse task schedule dates correctly and fail to queue task instances form a type. This issue occurs when selecting the schedule date from the calendar picker in the Task Engine UI.

The issue is resolved.

Release 10.5

- MWS-25765
  Task Engine might fail to fire scheduled events if the schedule coincides with redeployment of the task application.
  The issue is resolved.

Release 10.4

- WTN-4370
  When you configure a JMS provider for the wmTaskEngine package using the Command Central web user interface, you cannot set the field back to an empty value.
  The issue is resolved.

Release 10.3

- MWS-23917
  Task Engine might schedule and fire events at unexpected times.
  This issue occurs for the following task event configurations:
  - When you configure task events with binding expressions for schedule time offsets and the binding expressions do not resolve to a number. Task Engine schedules and fires the events immediately.
  - When you configure task events without business calendar, but a default business calendar is configured in My webMethods Server. Task Engine will comply to the default business calendar, regardless of the event configuration.
  The issue is resolved. Task Engine no longer schedules task events if the binding expression for date/time offset does not resolve to a numerical value.
  Tasks Engine no longer uses the default business calendar when calculating event schedules. You can control this behavior by adding the following system property to the custom_wrapper.conf file for My webMethods Server:
  -Dtask.events.use.default.calendar=true
  By default the property is set to false (not present) and Task Engine does not use the default business calendar of a user when scheduling task events, as documented.

Release 10.2

- WTN-3733
  My webMethods does not display details about a step in a collaboration process.
  On the Collaboration Processes > Process Details page, when you select a step in a collaboration

process, the Step Info, Task Info, Task Audit, and Task Comments tabs on the Details panel do not display any information about the step. Only the Process Info tab contains any information.
The issue is resolved.

Release 10.1

▪ WTN-4000
A security issue with password masking was discovered in the WmTaskClient package in Integration Server.
The issue is resolved.

Release 10.0

▪ WTN-2749
The WmTaskClient package does not support case-insensitive index searches.
You cannot use WmTaskClient package services to perform an indexed task search with a search query term that is case-insensitive.
The issue is resolved.

Release 9.12

▪ WTN-3684
On the Business Data page in My webMethods, the Intrinsic Task Metrics event maps are improperly set as user-defined.
When you expand the Intrinsic Task Metrics node on the Administration > Analytics > KPIs > Business Data page in My webMethods, the DEFINED BY column for the Intrinsic Task Metrics event maps displays the value of "User". However, intrinsic event map and KPI definitions should be system-defined to prevent users from deleting or modifying the definitions.
The issue is resolved. The DEFINED BY column for the Intrinsic Task Metrics event maps now has a value of "System".

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.3

The Task Engine documentation set is available as a webhelp on the Software AG Empower website.

Release 10.2

The *Task Engine User's Guide* is available as a webhelp on the Software AG Empower website.

Release 9.12

A new chapter, "Using Command Central to Manage Task Engine" is added to *webMethods Task Engine User's Guide*. The chapter contains information about how you use Software AG Command Central to administer the WmTaskClient and Task Engine layered products.

7.0   Terminology Changes

A release is listed in this section only if changes occurred in that release.

8.0   Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 10.7

Added Item	Description
Docker support for Task Engine on My webMethods Server and WmTaskClient	Task Engine instances, installed on My webMethods Server can be included in Docker images using the default My webMethods Server tooling, and can run in Docker containers. WmTaskClient can be containerized with Integration Server or Microservices Runtime.
Support for task voting in Task Engine APIs	Task voting and voting recalculation are now available through the Task Engine services.
Support for separate locations for Process Engine and Rules Engine	The Task Engine user interface is enhanced to support separate configurations for Process Engine and Rules Engine.

Changed Item	Description
Runtime behavior of task comments and attachments with scope "process instance scope" when queued from a subprocess	When the attachments/comments scope of a task type is set to "process instance scope", and a task instance is queued by a subprocess, all comments and attachments will be available within the scope of the **root** (parent) process.

Release 10.5

Added Item	Description
Support for archiving and searching task instances data	Task Engine instances, running on My webMethods Server now support archiving task data in a separate data source, and searching archived data.
Support for task voting	Task Engine instances, running on My webMethods Server now allow multiple users to accept a task and vote for a status, without making an actual status update before a preconfigured threshold is achieved.
New administration interface for Task Engine on Integration Server	Task Engine instances, running on Integration Server can be administered through a new web-based administration interface.
Publishing task projects from Designer to Integration Server	The UI development perspective in Designer supports creating task projects for Integration Server runtimes and publishing tasks to Task Engine instances, running on Integration Server.

Changed Item	Description
The default view file format for task portlets	The default view file format for task portlets is changed to xhtml. Newly created views and pages now have the file name extension .xhtml and include JSF 2.x support by default.
UI support for votable task types	The default task portlets are enhanced to include additional UI elements to support task voting. For more information, see *Task Development Help*.

Release 10.4

Added Item	Description
Support for using PostgreSQL with Task Engine on My webMethods Server	For more information about how to use PostgreSQL with My webMethods Server and Task Engine, see *Administering My webMethods Server*.
HPSTRA Support for Task Engine on Integration Server	Task Engine on Integration Server now supports HPSTRA indexing and searches.
Enhanced Command Central Support for Task Engine on Integration Server	The Task Engine plug-in for Command Central now provides additional configuration options for Task Engine instances, running on Integration Server

Release 10.3

Added Item	Description
Task Engine on Integration Server	You can install and run Task Engine as a package (wmTaskEngine) on Integration Server.

Release 10.2

Removed Item	Replacement, if any
Support for Axis 1.4, which is used for exposing web services from My webMethods Server, is removed.	Now My webMethods Server web services use Axis 1.7.7.
The Task Content portlet	
Support for Content Service Platform	

Release 10.1

Added Item	Description
Support for using MySQL with Task Engine	For more information about how to use MySQL with My webMethods Server and Task Engine, see *Administering My webMethods Server*.
Support for Digital Event Services (DES) events	Task Engine now supports the emission of Digital Event Services events.

Deprecated Item	Replacement, if any
The My webMethods Server embedded database (Derby) is deprecated.	

Release 10.0

Added Item	Description
Full-text search in task type inboxes	Task Engine now supports full-text search on task business data in task type inboxes.

Changed Item	Description
Task Type ID selection in the Tasks Migration portlet	The Tasks Migration portlet now supports the selection of the task type ID for all supported databases.

Release 9.12

Deprecated Item	Replacement, if any
Support for Axis 1.x, which is used for exposing web services from My webMethods Server, is deprecated.	
Support for webMethods Glue	

Release 9.10

Added Item	Description
webMethods Task Development now supports the String List data type when you configure task assignees with a webMethods Business Rules decision table in Software AG Designer.	You can assign a task to multiple user IDs by using a String List in the assignee field of your IS document type. For more information about working with task assignments, see *webMethods BPM Task Development Help*.

Added Item	Description
Scheduling of task instances	When you create a task instance, you can now schedule the task instance to start at a specified date and time. You specify or modify the schedule of a task instance, using: • Task Engine built-in services • Task Engine RESTful services • webMethods Business Console user interface

9.0   Added, Removed, Deprecated, or Changed Built-In Services

A release is listed in this section only if changes occurred in that release.

Release 10.7

Added Service	Description
pub.task.taskclient:voteTask	The built-in service registers a single user vote for a specified task status.

Release 10.4

Added Service	Description
pub.task.taskclient:setInstancesStatus	The built-in service updates the status of all tasks of a particular task type at once.

Release 10.3

Added Service	Description
wmTaskEngine package	Services to administer and configure a Task Engine instance, running on Integration Server and services to deploy, queue, search, update, and delete tasks on an Integration Server runtime.

Release 10.1

Added Service	Description
pub.task.taskclient:searchTasksHPSTRA	The built-in service retrieves tasks that match specified search criteria. Applies to tasks with task data that the HPSTRA module in Task Engine stores in an ElasticSearch store.
pub.task.taskclient:countTasksIndexedHPSTRA	The built-in service counts the tasks that match the specified search criteria for tasks with indexed task business data. Applies to tasks with task data that the HPSTRA module in Task Engine stores in an ElasticSearch store.
pub.task.taskclient:searchTasksFieldsIndexedHPSTRA	The built-in service retrieves a collection of task data fields from tasks that match the specified search criteria. Applies to tasks with task data that the HPSTRA module in Task Engine stores in an ElasticSearch store.
pub.task.taskclient:searchTasksIndexedHPSTRA	The built-in service retrieves tasks that match specified search criteria. Applies to tasks with task data that the HPSTRA module in Task Engine stores in an ElasticSearch store.

Changed Service	Description
pub.task:TaskSearchQuery	The document type now includes a new parameter, SearchEngineType, which enables you to select a specific search engine to execute the search query.
pub.task:TaskSearchQueryV2	The document type now includes a new parameter, SearchEngineType, which enables you to select a specific search engine to execute the search query.

Release 10.0

Changed Service	Description
pub.task.taskclient:getTaskComments	The built-in service now returns the name of the ID parameter in uppercase instead of in lowercase.

Release 9.10

Changed Service	Description
pub.task.taskclient:queueTask	The built-in service now accepts the task schedule details for a task instance to be added to Task Engine's queue.
pub.task.taskclient:updateTask	The built-in service now allows changes to the new taskScheduleDate parameter if a task instance is in scheduled state.
pub.task.taskclient:getTask	The built-in service now retrieves the task schedule date along with other details of a task instance.

10.0 Added, Removed, Deprecated, or Changed Parameters

A release is listed in this section only if changes occurred in that release.

Release 10.7

Added Parameter	Description
activeVoting	Parameter in TaskSearchQuery that allows searching for task instances for which voting has started.

Release 10.4

Added Parameter	Description
task.use.oracle.hint	Additional JVM parameter that enables the use of Oracle hints to fine-tune task inbox searches.
task.search.inbox.hint	Additional JVM parameter that you use to specify the Oracle hint to use for the search query join mode instead of the default nested loop mode (USE_NL).
	For the property to take effect, you must also set the task.use.oracle.hint custom JVM property to true. For more information about setting custom JVM properties, see the Task Engine documentation. For more information about Oracle hints, see the Oracle documentation.

Release 10.3

Added Parameter	Description
task.events.use.default.calendar	Additional JVM parameter that enables or disables the use of the default My webMethods Server calendar for scheduled task events that do not use a specific business calendar. The default value is 'false' - Task Engine does not use the default My webMethods Server calendar when scheduling tasks.

Release 10.0

Removed Parameter	Replacement, if any
task.event.lightweight	The additional JVM parameter task.event.lightweight that was deprecated in a previous release is now removed.

Release 9.10

Added Parameter	Description
taskScheduleDate	The taskScheduleDate parameter has been added to: • pub.task:TaskInfo • pub.task:TaskQueueInfo • TaskInfo model used by RESTful services

Changed Parameter	Description
Status	The pub.task:TaskInfo service and the TaskInfo model used by RESTful services have been updated to include the new "scheduled" status.

11.0 Added, Removed, Deprecated, or Changed APIs

A release is listed in this section only if changes occurred in that release.

Release 10.11

Added API	Description

com.webmethods.caf.faces.url.InMemoryStreamHandler: Class
com.webmethods.caf.faces.url.InMemoryStreamHandler added

com.webmethods.common.thread.ThreadExecutor: Class
com.webmethods.common.thread.ThreadExecutor added

com.webmethods.common.thread.ThreadExecutorFactory: Class
com.webmethods.common.thread.ThreadExecutorFactory added

com.webmethods.portal.framework.presentation.util.ResponseHeaderRulesResolver: Class
com.webmethods.portal.framework.presentation.util.ResponseHeaderRulesResolver added

com.webmethods.portal.service.dir.IPasswordPolicyType: Class
com.webmethods.portal.service.dir.IPasswordPolicyType added

com.webmethods.portal.service.sql.core.CachedSqlWorker: Class
com.webmethods.portal.service.sql.core.CachedSqlWorker added

com.webmethods.portal.service.sql.runtime.oracle.UpdateSequenceUtil: Class
com.webmethods.portal.service.sql.runtime.oracle.UpdateSequenceUtil added

com.webmethods.portal.system.init.dbsync.DBLocation: Class
com.webmethods.portal.system.init.dbsync.DBLocation added

com.webmethods.portal.system.init.dbsync.IDatabaseService: Class
com.webmethods.portal.system.init.dbsync.IDatabaseService added

com.webmethods.portal.system.init.dbsync.IDatabaseSynchronizer: Class
com.webmethods.portal.system.init.dbsync.IDatabaseSynchronizer added

com.webmethods.portal.system.init.dbsync.IModifier: Class
com.webmethods.portal.system.init.dbsync.IModifier added

com.webmethods.portal.system.init.dbsync.ITableMigrator: Class
com.webmethods.portal.system.init.dbsync.ITableMigrator added

com.webmethods.portal.system.init.dbsync.dto.SynchronizableColumn: Class
com.webmethods.portal.system.init.dbsync.dto.SynchronizableColumn added

com.webmethods.portal.system.init.dbsync.dto.SynchronizableColumn$Builder: Class
com.webmethods.portal.system.init.dbsync.dto.SynchronizableColumn$Builder added

com.webmethods.portal.system.init.dbsync.dto.SynchronizableTable: Class
com.webmethods.portal.system.init.dbsync.dto.SynchronizableTable added

Removed API	Replacement, if any
com.webmethods.portal.service.sql.runtime.mysql.SetThingDates: Class com.webmethods.portal.service.sql.runtime.mysql.SetThingDates removed	

Changed API	Description
com.webmethods.caf.faces.config.CafAnnotationProvider: Accessibility of method 'protected void processBundle(org.osgi.framework.Bundle, java.util.Set)' has been decreased from protected to private	
com.webmethods.portal.bizPolicy.command.install.InstallComponent: Accessibility of field allowedFileExtensions has been increased from private to protected	
com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Added protected field deployMap	
com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Added protected field deployMapFile	

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Added protected field m_workDir

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Accessibility of field allowedFileExtensions has been increased from private to protected

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Removed field containerDeployMap

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Removed field containerDeployMapFile

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Accessibility of method 'protected void checkInstall(java.util.List, java.nio.file.Path, java.util.Map, java.lang.String)' has been decreased from protected to private

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Accessibility of method 'protected void checkUninstall(com.webmethods.portal.bizPolicy.IContext, java.util.List, java.util.Map, java.lang.String)' has been decreased from protected to private

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Method 'public java.util.Set getAllowedFileExtensions()' has been removed

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Method 'public void syncAppsFolder(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.bizPolicy.command.ICommandBean)' has been removed

com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Method 'protected void transferToDeployDir(java.io.File)' has been removed

com.webmethods.portal.bizPolicy.command.install.SyncConfigFolder: Field allowedFileExtensions is now non-static

com.webmethods.portal.bizPolicy.command.install.SyncConfigFolder: Accessibility of field allowedFileExtensions has been increased from private to protected

com.webmethods.portal.bizPolicy.command.install.SyncConfigFolder: Method 'public java.util.Set getAllowedFileExtensions()' has been removed

com.webmethods.portal.bizPolicy.command.install.SyncConfigFolder: Method 'public java.lang.Object handle(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.bizPolicy.command.ICommandBean)' has been removed, but an inherited definition exists.

com.webmethods.portal.bizPolicy.command.install.SyncConfigFolder: Method 'public void init(com.webmethods.portal.system.IComponentData, java.lang.String)' has been removed, but an inherited definition exists.

com.webmethods.portal.bizPolicy.command.install.SyncConfigFolder: Method 'public void syncConfigsFolder(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.bizPolicy.command.ICommandBean)' has been removed

com.webmethods.portal.framework.dispatch.IDispatchHandler: Added public field

HANDLE_SYSADMIN

com.webmethods.portal.framework.mech.install.StartWebApplications: Added public field MWS_CURRENT_PHASE

com.webmethods.portal.framework.mech.install.StartWebApplications: Removed field USE_MULTI_THREAD_STARTUP

com.webmethods.portal.framework.mech.install.StartWebApplications: In method 'protected void startWebApplications(com.webmethods.portal.service.view.IListView)' the number of arguments has changed

com.webmethods.portal.framework.session.ISessionHandler: Added public field SESSION_RESPONSE_HANDLE_SYSADMIN

com.webmethods.portal.service.dir.IDirConstants: Added public field CHANGE_PASS

com.webmethods.portal.service.dir.IDirConstants: Added public field CHANGE_PASS_SUCCESS_ATTR

com.webmethods.portal.service.dir.IDirConstants: Added public field CONFIRM_PASSWORD_PARAM

com.webmethods.portal.service.dir.IDirConstants: Added public field IS_SYSADMIN_ATTR

com.webmethods.portal.service.dir.IDirConstants: Added public field NEW_PASSWORD_PARAM

com.webmethods.portal.service.dir.IDirConstants: Added public field PROPERTY_PASSWORDVALIDUNTIL

com.webmethods.portal.service.dir.IDirConstants: Added public field SKIP_CHECK_AUTH_ATTR

com.webmethods.portal.service.dir.IDirConstants: Added public field SYSADMIN

com.webmethods.portal.service.sql.core.BaseSqlWorker: Method 'public int[] executeBatchUpdate(java.lang.String, java.util.List, java.lang.Object[], boolean)' has been added

com.webmethods.portal.service.sql.core.ConnectionInfo: Method 'public void setSqlWorkerClass(java.lang.Class)' has been added

com.webmethods.portal.service.sql.core.ConnectionManager: Added public field CACHED_DS_NAME

com.webmethods.portal.service.sql.core.ConnectionManager: Added public field EXT_DS_NAME

com.webmethods.portal.service.sql.runtime.base.GetSqlTime: Added public field NAME

com.webmethods.portal.service.sql.runtime.base.GetSqlTime: Added public field UTC_TZ

com.webmethods.portal.service.sql.runtime.base.GetTasksVoted: Method 'public void setDatabaseRuntime(com.webmethods.portal.service.sql.IDatabaseRuntime)' has been added

com.webmethods.portal.service.sql.runtime.base.GroupAddUpdate: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.base.RoleAddUpdate: Method 'public java.lang.String

getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.base.SetThingDates: Added public field NAME

com.webmethods.portal.service.sql.runtime.base.SetThingDates: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.base.SubMatchList: Method 'public void setDatabaseRuntime(com.webmethods.portal.service.sql.IDatabaseRuntime)' has been added

com.webmethods.portal.service.sql.runtime.base.SubNew: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.base.TaskAllAttachments: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.base.TaskAllAttachmentsCount: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.base.TaskAllAttachmentsCount: Field QUERY_2 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.base.TaskAllAttachmentsCount: Field QUERY_3 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.base.TaskComments: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.base.TaskComments: Field QUERY_2 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.base.TaskComments: Field QUERY_3 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.base.TaskCommentsCount: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.base.TaskCommentsCount: Field QUERY_2 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.base.TaskCommentsProcess: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.base.TaskCommentsProcess: Field QUERY_2 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.base.TaskCommentsProcess: Field QUERY_3 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.base.TaskListFromInboxes: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesPaged: Method 'protected void generateSqlByTerm(int, java.util.Map,

com.webmethods.portal.service.task.TaskSearchQueryTerm, com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo)' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.base.TypeLoad: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.base.UserAddUpdate: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.base.UserGroupAdd: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.base.UserRoleAdd: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.mysql.TaskAllAttachments: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.mysql.TaskAllAttachmentsCount: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.mysql.TaskAllAttachmentsCount: Field QUERY_2 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.mysql.TaskAllAttachmentsCount: Field QUERY_3 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.mysql.TaskComments: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.mysql.TaskComments: Field QUERY_2 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.mysql.TaskComments: Field QUERY_3 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.mysql.TaskCommentsCount: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.mysql.TaskCommentsCount: Field QUERY_2 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.mysql.TaskCommentsProcess: Added com.webmethods.portal.service.sql.runtime.base.BPMTaskProcedure to the list of superclasses

com.webmethods.portal.service.sql.runtime.mysql.TaskCommentsProcess: Field QUERY_2 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.mysql.TaskCommentsProcess: Field QUERY_3 has been removed, but it was previously a constant

com.webmethods.portal.service.sql.runtime.oracle.SubNew: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.oracle.ThingDestroy: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.service.sql.runtime.oracle.UpdateThingCounter: Method 'public java.lang.String getPackageName()' has been removed, but an inherited definition exists.

com.webmethods.portal.system.PortalSystem: Added public field IN_MEMORY_INIT_MODE

com.webmethods.portal.system.boot.PortalBootManager: Method 'public java.lang.Boolean isInMemoryInit()' has been added

com.webmethods.portal.webapp.jetty7.WebXMLRewriter: Accessibility of field FIX_BUNDLE_WEB_XML has been increased from package to public

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Added API	Description
com.webmethods.caf.common.logging.dir.DirectoryLoggingConstants: Class com.webmethods.caf.common.logging.dir.DirectoryLoggingConstants added	
com.webmethods.caf.common.parse.xml.DateFormatter: Method 'public void main(java.lang.String[])' has been removed	
com.webmethods.caf.portalclient.task.task.RecalculationStatus: Class com.webmethods.caf.portalclient.task.task.RecalculationStatus added	
com.webmethods.caf.server.remote.rpcws.encoding.ObjectSerializer: Class com.webmethods.caf.server.remote.rpcws.encoding.ObjectSerializer added	
com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder: Class com.webmethods.portal.bizPolicy.command.install.SyncAppsFolder added	
com.webmethods.portal.bizPolicy.command.install.SyncConfigFolder: Class com.webmethods.portal.bizPolicy.command.install.SyncConfigFolder added	
com.webmethods.portal.bizPolicy.command.jcr.RepositoryConfigImpl: Class com.webmethods.portal.bizPolicy.command.jcr.RepositoryConfigImpl added	
com.webmethods.portal.bizPolicy.command.jcr.RepositoryInitializer: Class com.webmethods.portal.bizPolicy.command.jcr.RepositoryInitializer added	
com.webmethods.portal.bizPolicy.command.jcr.RepositoryInitializer$Factory: Class com.webmethods.portal.bizPolicy.command.jcr.RepositoryInitializer$Factory added	
com.webmethods.portal.bizPolicy.command.task.GetRecalculationStatus: Class com.webmethods.portal.bizPolicy.command.task.GetRecalculationStatus added	
com.webmethods.portal.bizPolicy.command.task.GetRecalculationStatus$GetRecalculationStatusCommandBean: Class com.webmethods.portal.bizPolicy.command.task.GetRecalculationStatus$GetRecalculationStatusCommandBean added	

com.webmethods.portal.bizPolicy.command.task.StartVoteRecalculation: Class
com.webmethods.portal.bizPolicy.command.task.StartVoteRecalculation added

com.webmethods.portal.bizPolicy.command.task.StartVoteRecalculation$StartVoteRecalculationCommandBean: Class
com.webmethods.portal.bizPolicy.command.task.StartVoteRecalculation$StartVoteRecalculationCommandBean added

com.webmethods.portal.bizPolicy.command.task.StopVoteRecalculation: Class
com.webmethods.portal.bizPolicy.command.task.StopVoteRecalculation added

com.webmethods.portal.bizPolicy.command.task.StopVoteRecalculation$StopVoteRecalculationCommandBean: Class
com.webmethods.portal.bizPolicy.command.task.StopVoteRecalculation$StopVoteRecalculationCommandBean added

com.webmethods.portal.bizPolicy.command.task.VoteTask: Class
com.webmethods.portal.bizPolicy.command.task.VoteTask added

com.webmethods.portal.bizPolicy.command.task.VoteTask$VoteTaskCommandBean: Class
com.webmethods.portal.bizPolicy.command.task.VoteTask$VoteTaskCommandBean added

com.webmethods.portal.bizPolicy.command.task.jms.GetRecalculationStatusJMS: Class
com.webmethods.portal.bizPolicy.command.task.jms.GetRecalculationStatusJMS added

com.webmethods.portal.bizPolicy.command.task.jms.VoteTaskJMS: Class
com.webmethods.portal.bizPolicy.command.task.jms.VoteTaskJMS added

com.webmethods.portal.bizPolicy.command.task.rs.TaskVotingResources: Class
com.webmethods.portal.bizPolicy.command.task.rs.TaskVotingResources added

com.webmethods.portal.bizPolicy.command.task.webservice.GetRecalculationStatusWS: Class
com.webmethods.portal.bizPolicy.command.task.webservice.GetRecalculationStatusWS added

com.webmethods.portal.bizPolicy.command.task.webservice.GetRecalculationStatusWS$GetRecalculationStatusCommandBean: Class
com.webmethods.portal.bizPolicy.command.task.webservice.GetRecalculationStatusWS$GetRecalculationStatusCommandBean added

com.webmethods.portal.bizPolicy.command.task.webservice.StartVoteRecalculationWS: Class
com.webmethods.portal.bizPolicy.command.task.webservice.StartVoteRecalculationWS added

com.webmethods.portal.bizPolicy.command.task.webservice.StartVoteRecalculationWS$StartVoteRecalculationCommandBean: Class
com.webmethods.portal.bizPolicy.command.task.webservice.StartVoteRecalculationWS$StartVoteRecalculationCommandBean added

com.webmethods.portal.bizPolicy.command.task.webservice.StopVoteRecalculationWS: Class
com.webmethods.portal.bizPolicy.command.task.webservice.StopVoteRecalculationWS added

com.webmethods.portal.bizPolicy.command.task.webservice.StopVoteRecalculationWS$StopVoteRecalculationCommandBean: Class

com.webmethods.portal.bizPolicy.command.task.webservice.StopVoteRecalculationWS$StopVoteRecalculationCommandBean added

com.webmethods.portal.bizPolicy.command.task.webservice.VoteTaskWS: Class
com.webmethods.portal.bizPolicy.command.task.webservice.VoteTaskWS added

com.webmethods.portal.bizPolicy.command.task.webservice.VoteTaskWS$VoteTaskCommandBean: Class
com.webmethods.portal.bizPolicy.command.task.webservice.VoteTaskWS$VoteTaskCommandBean added

com.webmethods.portal.bizPolicy.command.task.webservice.dotnet.GetRecalculationStatusDotNetWS: Class
com.webmethods.portal.bizPolicy.command.task.webservice.dotnet.GetRecalculationStatusDotNetWS added

com.webmethods.portal.bizPolicy.upgrade.TaskEngineConfigPortletMigrator: Class
com.webmethods.portal.bizPolicy.upgrade.TaskEngineConfigPortletMigrator added

com.webmethods.portal.framework.auth.totp.ITOTPAuthenticator: Class
com.webmethods.portal.framework.auth.totp.ITOTPAuthenticator added

com.webmethods.portal.framework.auth.totp.ITOTPAuthenticatorKey: Class
com.webmethods.portal.framework.auth.totp.ITOTPAuthenticatorKey added

com.webmethods.portal.framework.auth.totp.ITOTPConfigService: Class
com.webmethods.portal.framework.auth.totp.ITOTPConfigService added

com.webmethods.portal.framework.auth.totp.ITOTPConfiguration: Class
com.webmethods.portal.framework.auth.totp.ITOTPConfiguration added

com.webmethods.portal.mech.install.util.InstallMechanicsUtils: Class
com.webmethods.portal.mech.install.util.InstallMechanicsUtils added

com.webmethods.portal.service.dir.PrincipalSortComparator: Class
com.webmethods.portal.service.dir.PrincipalSortComparator added

com.webmethods.portal.service.dir.TotpAuthenticationException: Class
com.webmethods.portal.service.dir.TotpAuthenticationException added

com.webmethods.portal.service.dir.calendar.ICalendarAdminConfig: Class
com.webmethods.portal.service.dir.calendar.ICalendarAdminConfig added

com.webmethods.portal.service.dir.calendar.ICalendarAdminConfigService: Class
com.webmethods.portal.service.dir.calendar.ICalendarAdminConfigService added

com.webmethods.portal.service.dir.gdpr.IGdprConfig: Class
com.webmethods.portal.service.dir.gdpr.IGdprConfig added

com.webmethods.portal.service.dir.gdpr.IGdprConfig$DataInclusionType: Class
com.webmethods.portal.service.dir.gdpr.IGdprConfig$DataInclusionType added

com.webmethods.portal.service.dir.gdpr.IGdprConfigService: Class

com.webmethods.portal.service.dir.gdpr.IGdprConfigService added

com.webmethods.portal.service.dir.gdpr.IGdprNotification: Class
com.webmethods.portal.service.dir.gdpr.IGdprNotification added

com.webmethods.portal.service.dir.gdpr.IGdprReconfigure: Class
com.webmethods.portal.service.dir.gdpr.IGdprReconfigure added

com.webmethods.portal.service.sql.IConnectionManager: Class
com.webmethods.portal.service.sql.IConnectionManager added

com.webmethods.portal.service.sql.runtime.base.UsersCount: Class
com.webmethods.portal.service.sql.runtime.base.UsersCount added

com.webmethods.portal.service.sql.runtime.db2.AddKeywordToApp: Class
com.webmethods.portal.service.sql.runtime.db2.AddKeywordToApp added

com.webmethods.portal.service.sql.runtime.oracle.AddKeywordToApp: Class
com.webmethods.portal.service.sql.runtime.oracle.AddKeywordToApp added

com.webmethods.portal.service.task.ITaskConnectivityService: Class
com.webmethods.portal.service.task.ITaskConnectivityService added

com.webmethods.portal.service.task.ITaskVotingStrategy: Class
com.webmethods.portal.service.task.ITaskVotingStrategy added

com.webmethods.portal.service.task.ITaskVotingStrategyManagerFactory: Class
com.webmethods.portal.service.task.ITaskVotingStrategyManagerFactory added

com.webmethods.portal.service.task.ITaskVotingStrategyProvider: Class
com.webmethods.portal.service.task.ITaskVotingStrategyProvider added

com.webmethods.portal.service.task.RecalculationStatus: Class
com.webmethods.portal.service.task.RecalculationStatus added

com.webmethods.portal.service.task.event.ITaskVoteEvent: Class
com.webmethods.portal.service.task.event.ITaskVoteEvent added

com.webmethods.portal.service.task.event.ITaskVoteEvent$IListener: Class
com.webmethods.portal.service.task.event.ITaskVoteEvent$IListener added

com.webmethods.portal.service.task.event.ITaskVoteEvent$ISynchronousListener: Class
com.webmethods.portal.service.task.event.ITaskVoteEvent$ISynchronousListener added

com.webmethods.portal.service.task.event.ITaskVoteEvent$Listeners: Class
com.webmethods.portal.service.task.event.ITaskVoteEvent$Listeners added

com.webmethods.portal.service.task.event.ITaskVoteEvent$SynchronousListeners: Class
com.webmethods.portal.service.task.event.ITaskVoteEvent$SynchronousListeners added

com.webmethods.portal.service.task.event.ITaskVoteEvent$SynchronousListeners$SynchronousListener: Class
com.webmethods.portal.service.task.event.ITaskVoteEvent$SynchronousListeners$SynchronousListener added

com.webmethods.portal.system.lock.ClusterLockFailedException: Class
com.webmethods.portal.system.lock.ClusterLockFailedException added

com.webmethods.portal.webapp.jetty7.MwsLoginService$MwsUserStore: Class
com.webmethods.portal.webapp.jetty7.MwsLoginService$MwsUserStore added

com.webmethods.portal.webapp.jetty7.MwsSession: Class
com.webmethods.portal.webapp.jetty7.MwsSession added

com.webmethods.portal.webapp.jetty7.MwsSessionCache: Class
com.webmethods.portal.webapp.jetty7.MwsSessionCache added

com.webmethods.rtl.container.ContainerMetaInfo: Class
com.webmethods.rtl.container.ContainerMetaInfo added

com.webmethods.rtl.container.health.HealthCheck: Class
com.webmethods.rtl.container.health.HealthCheck added

com.webmethods.rtl.container.health.HealthCheckConfigProvider: Class
com.webmethods.rtl.container.health.HealthCheckConfigProvider added

com.webmethods.rtl.container.health.IHealthIndicator: Class
com.webmethods.rtl.container.health.IHealthIndicator added

com.webmethods.rtl.container.health.IHealthIndicator$HealthStatus: Class
com.webmethods.rtl.container.health.IHealthIndicator$HealthStatus added

com.webmethods.rtl.container.health.IHealthIndicatorConfig: Class
com.webmethods.rtl.container.health.IHealthIndicatorConfig added

com.webmethods.rtl.container.health.config.BaseHealthIndicatorConfig: Class
com.webmethods.rtl.container.health.config.BaseHealthIndicatorConfig added

com.webmethods.rtl.container.health.config.DiskspaceHealthIndicatorConfig: Class
com.webmethods.rtl.container.health.config.DiskspaceHealthIndicatorConfig added

com.webmethods.rtl.container.health.config.JettyThreadHealthIndicatorConfig: Class
com.webmethods.rtl.container.health.config.JettyThreadHealthIndicatorConfig added

com.webmethods.rtl.container.health.config.MemoryHealthIndicatorConfig: Class
com.webmethods.rtl.container.health.config.MemoryHealthIndicatorConfig added

com.webmethods.rtl.container.health.indicator.AXSRFTGenerationHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.AXSRFTGenerationHealthIndicator added

com.webmethods.rtl.container.health.indicator.BaseHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.BaseHealthIndicator added

com.webmethods.rtl.container.health.indicator.CustomDataSourceHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.CustomDataSourceHealthIndicator added

com.webmethods.rtl.container.health.indicator.DatabaseConnectivityHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.DatabaseConnectivityHealthIndicator added

com.webmethods.rtl.container.health.indicator.DirServiceConnectivityHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.DirServiceConnectivityHealthIndicator added

com.webmethods.rtl.container.health.indicator.DiskspaceHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.DiskspaceHealthIndicator added

com.webmethods.rtl.container.health.indicator.JettyThreadHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.JettyThreadHealthIndicator added

com.webmethods.rtl.container.health.indicator.MemoryHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.MemoryHealthIndicator added

com.webmethods.rtl.container.health.indicator.ProcessEngineConnectivityHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.ProcessEngineConnectivityHealthIndicator added

com.webmethods.rtl.container.health.indicator.RulesEngineConnectivityHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.RulesEngineConnectivityHealthIndicator added

com.webmethods.rtl.container.health.indicator.UmConnectionHealthIndicator: Class
com.webmethods.rtl.container.health.indicator.UmConnectionHealthIndicator added

com.webmethods.rtl.container.metrics.PrometheousMetrics: Class
com.webmethods.rtl.container.metrics.PrometheousMetrics added

com.webmethods.rtl.util.NoodleUtil: Class com.webmethods.rtl.util.NoodleUtil added

com.webmethods.rtl.util.RuntimeUtil: Class com.webmethods.rtl.util.RuntimeUtil removed

com.webmethods.rtl.util.runtime.RuntimeUtil: Class com.webmethods.rtl.util.runtime.RuntimeUtil added

Changed API	Description

com.webmethods.bpm.noodle.IUserTabSetService: Method 'public boolean isTabExists(java.lang.String)' has been added to an interface

com.webmethods.caf.common.SafeXMLLayout: Added org.apache.logging.log4j.core.impl.LocationAware to the set of implemented interfaces

com.webmethods.caf.common.logging.LoggingConstants: Added public field LOG_CATEGORY_DIRECTORY

com.webmethods.caf.common.logging.LoggingUtils: Method 'public org.slf4j.Logger getLogger(java.lang.Class, java.lang.String[])' has been added

com.webmethods.caf.faces.data.attachments.LocalTempAttachmentsProvider$FileItemImpl: Removed java.io.Serializable from the set of implemented interfaces

com.webmethods.caf.faces.data.attachments.PortalAttachmentItem$PortalContentFileItem: Removed java.io.Serializable from the set of implemented interfaces

com.webmethods.caf.faces.data.attachments.TempAttachmentsProvider$TempThingFileItem: Removed java.io.Serializable from the set of implemented interfaces

com.webmethods.caf.faces.data.attachments.URLFileItem: Removed java.io.Serializable from the set of

implemented interfaces

com.webmethods.caf.faces.servlet.FileItemWrapper: Removed java.io.Serializable from the set of implemented interfaces

com.webmethods.caf.faces.servlet.MultipartWrapper: Method 'public MultipartWrapper()' has been added

com.webmethods.caf.jcr.faces.data.JcrAttachmentsProvider$JcrFileItem: Removed java.io.Serializable from the set of implemented interfaces

com.webmethods.caf.jcr.faces.util.PropertyHelper: Method 'public java.lang.String encodeNodeName(java.lang.String)' has been added

com.webmethods.caf.mobile.notify.task.NotificationSender: Parameter 2 of 'public NotificationSender(java.util.concurrent.BlockingQueue, com.sun.jersey.api.client.WebResource$Builder, java.lang.String, java.lang.String, com.sun.jersey.api.client.Client, com.webmethods.pushNotification.apns.connection.pool.APNSConnectionProvider, com.webmethods.caf.mobile.notify.impl.AppleMessagingCloudConnectionDetails)' has changed its type to javax.ws.rs.client.Invocation$Builder

com.webmethods.caf.mobile.notify.task.NotificationSender: Parameter 5 of 'public NotificationSender(java.util.concurrent.BlockingQueue, com.sun.jersey.api.client.WebResource$Builder, java.lang.String, java.lang.String, com.sun.jersey.api.client.Client, com.webmethods.pushNotification.apns.connection.pool.APNSConnectionProvider, com.webmethods.caf.mobile.notify.impl.AppleMessagingCloudConnectionDetails)' has changed its type to javax.ws.rs.client.Client

com.webmethods.caf.portalclient.task.PCTaskHelper: Method 'public com.webmethods.caf.portalclient.task.task.RecalculationStatus getRecalculationStatus(java.lang.String)' has been added

com.webmethods.caf.portalclient.task.PCTaskHelper: Method 'public void startVoteRecalculation(java.lang.String, java.lang.String)' has been added

com.webmethods.caf.portalclient.task.PCTaskHelper: Method 'public void stopVoteRecalculation(java.lang.String, java.lang.String)' has been added

com.webmethods.caf.portalclient.task.PCTaskHelper: Method 'public void voteTask(java.lang.String, java.lang.String, java.lang.String)' has been added

com.webmethods.caf.portalclient.task.task.ItaskPortType: Method 'public com.webmethods.caf.portalclient.task.task.RecalculationStatus getRecalculationStatus(java.lang.String)' has been added to an interface

com.webmethods.caf.portalclient.task.task.ItaskPortType: Method 'public void startVoteRecalculation(java.lang.String, java.lang.String)' has been added to an interface

com.webmethods.caf.portalclient.task.task.ItaskPortType: Method 'public void stopVoteRecalculation(java.lang.String, java.lang.String)' has been added to an interface

com.webmethods.caf.portalclient.task.task.ItaskPortType: Method 'public void voteTask(java.lang.String, java.lang.String, java.lang.String)' has been added to an interface

com.webmethods.caf.portalclient.task.task.TaskSearchQuery: Added public field activeVoting

com.webmethods.caf.portalclient.task.task.TaskSearchQuery: Method 'public boolean isActiveVoting()' has been added

com.webmethods.caf.portalclient.task.task.TaskSearchQuery: Method 'public void setActiveVoting(boolean)' has been added

com.webmethods.management.jmx.Log4JMXAppender: Added org.apache.logging.log4j.core.impl.LocationAware to the set of implemented interfaces

com.webmethods.portal.bizPolicy.biz.task.ITaskBizPolicy: Method 'public com.webmethods.portal.service.task.RecalculationStatus getRecalculationStatus(com.webmethods.portal.bizPolicy.IContext, java.lang.String)' has been added to an interface

com.webmethods.portal.bizPolicy.biz.task.ITaskBizPolicy: Method 'public void startVoteRecalculation(com.webmethods.portal.bizPolicy.IContext, java.lang.String)' has been added to an interface

com.webmethods.portal.bizPolicy.biz.task.ITaskBizPolicy: Method 'public void stopVoteRecalculation(com.webmethods.portal.bizPolicy.IContext, java.lang.String)' has been added to an interface

com.webmethods.portal.bizPolicy.biz.task.ITaskBizPolicy: Method 'public void voteTask(com.webmethods.portal.bizPolicy.IContext, java.lang.String, java.lang.String, java.lang.String)' has been added to an interface

com.webmethods.portal.bizPolicy.command.dir.AuthenticateUser: Method 'protected com.webmethods.portal.service.dir.IDirUser _authenticateUser(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.mech.dir.IDirSystemMechanics, java.lang.String, java.lang.String, java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.dir.AuthenticateUser: Method 'public com.webmethods.portal.service.dir.IDirUser authenticateUser(com.webmethods.portal.bizPolicy.IContext, java.lang.String, java.lang.String, java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.dir.AuthenticateUser: Method 'public com.webmethods.portal.service.dir.IDirUser authenticateUser(com.webmethods.portal.bizPolicy.IContext, java.lang.String, java.lang.String, java.lang.String, boolean)' has been added

com.webmethods.portal.bizPolicy.command.dir.AuthenticateUser: Method 'protected void handleTotpFailed(java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.dir.rs.RoleJaxbContentResolver: Return type of method 'public javax.xml.bind.JAXBContext getContext(java.lang.Class)' has been changed to

com.fasterxml.jackson.databind.ObjectMapper

com.webmethods.portal.bizPolicy.command.rest.MWSCustomDispatchProvider: Removed com.sun.jersey.spi.container.ResourceMethodDispatchProvider from the set of implemented interfaces

com.webmethods.portal.bizPolicy.command.rest.MWSCustomDispatchProvider: Method 'public MWSCustomDispatchProvider(com.sun.jersey.spi.container.ResourceMethodDispatchProvider)' has been removed

com.webmethods.portal.bizPolicy.command.rest.MWSCustomDispatchProvider: Method 'public com.sun.jersey.spi.dispatch.RequestDispatcher create(com.sun.jersey.api.model.AbstractResourceMethod)' has been removed

com.webmethods.portal.bizPolicy.command.rest.MWSRequestDispatcher: Removed com.sun.jersey.spi.dispatch.RequestDispatcher from the set of implemented interfaces

com.webmethods.portal.bizPolicy.command.rest.MWSRequestDispatcher: In method 'public MWSRequestDispatcher(com.sun.jersey.spi.dispatch.RequestDispatcher)' the number of arguments has changed

com.webmethods.portal.bizPolicy.command.rest.MWSRequestDispatcher: Method 'public void dispatch(java.lang.Object, com.sun.jersey.api.core.HttpContext)' has been removed

com.webmethods.portal.bizPolicy.command.task.jms.api.TaskCommandJMS: Added public field GET_RECALCULATION_STATUS

com.webmethods.portal.bizPolicy.command.task.jms.api.TaskCommandJMS: Added public field VOTE_TASK

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Added com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource to the list of superclasses

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Method 'public javax.ws.rs.core.Response buildResponse(java.lang.String, java.lang.Object)' is now implemented in superclass com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Method 'public javax.ws.rs.core.Response buildResponse()' is now implemented in superclass com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Method 'public java.util.Map convertPropertyValues(java.lang.String[], java.util.Map)' is now implemented in superclass com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Method 'protected com.webmethods.portal.bizPolicy.command.ICommand getCommand(com.webmethods.portal.bizPolicy.IContext, java.lang.String)' is now implemented in superclass com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Method 'public java.lang.String getStringValue(java.lang.Object)' is now implemented in superclass com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Method 'public java.lang.String getSupportedMediaType(java.lang.String)' is now implemented in superclass com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Method 'public java.lang.Object invoke(javax.servlet.http.HttpServletRequest, java.lang.String, java.lang.String[])' is now implemented in superclass com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Method 'public java.lang.Object invoke(javax.servlet.http.HttpServletRequest, java.lang.String, com.webmethods.portal.bizPolicy.command.impl.CommandBean)' is now implemented in superclass com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource

com.webmethods.portal.bizPolicy.command.task.rs.JAXBContextResolver: Return type of method 'public javax.xml.bind.JAXBContext getContext(java.lang.Class)' has been changed to com.fasterxml.jackson.databind.ObjectMapper

com.webmethods.portal.bizPolicy.command.task.rs.LayeredProductVerionResource: Added com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource to the list of superclasses

com.webmethods.portal.bizPolicy.command.task.rs.SearchTaskResource: Added com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource to the list of superclasses

com.webmethods.portal.bizPolicy.command.task.rs.TaskAttachmentResource: Added com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource to the list of superclasses

com.webmethods.portal.bizPolicy.command.task.rs.TaskAuditResource: Added com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource to the list of superclasses

com.webmethods.portal.bizPolicy.command.task.rs.TaskCommentResource: Added com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource to the list of superclasses

com.webmethods.portal.bizPolicy.command.task.rs.TaskResource: Added com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource to the list of superclasses

com.webmethods.portal.bizPolicy.command.task.webservice.FileItemRESTImpl: Removed java.io.Serializable from the set of implemented interfaces

com.webmethods.portal.framework.session.handlers.Validate: Method 'protected com.webmethods.portal.service.dir.IDirUser authenticateUser(com.webmethods.portal.bizPolicy.IContext, java.lang.String, java.lang.String, java.lang.String)' has been added

com.webmethods.portal.noodle.util.NoodleUtils: Added com.webmethods.rtl.util.NoodleUtil to the list of superclasses

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public boolean canUser(com.webmethods.portal.system.IURI, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public boolean canUser(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.system.IURI,

java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public boolean canUser(java.lang.String, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.meta2.thing.IThingID createObjectInFolder(com.webmethods.portal.service.meta2.thing.IThingID, java.lang.String, java.lang.String, java.util.Map, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public java.lang.String encodePath(java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.bizPolicy.biz.meta.IBasicPolicy getBasicPolicy()' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.bizPolicy.command.ICommandManager getCommandManager()' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.mech.storage.IContainerMechanics getContainerMech(com.webmethods.portal.service.meta2.thing.IThingID)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.bizPolicy.biz.meta.IContainerPolicy getContainerPolicy(com.webmethods.portal.service.meta2.thing.IThingID)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.bizPolicy.IContext getCurrentContext()' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.meta2.thing.IThingID getCurrentUser()' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public java.lang.String getCurrentUserID()' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.meta2.thing.IThingID getDirPrincipalThingId(com.webmethods.portal.bizPolicy.IContext, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.meta2.thing.IThingID getFolder(com.webmethods.portal.service.meta2.thing.IThingID, java.lang.String, boolean,

java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public java.lang.String getFriendlyURL(com.webmethods.portal.system.IURI)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public javax.jcr.Session getJcrSession()' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.caf.jcr.faces.bean.RepositorySessionManager getJcrSessionManager()' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public javax.jcr.Node getOrCreateChildNode(javax.jcr.Session, javax.jcr.Node, java.lang.String, boolean, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.meta2.thing.IThingID getPrimaryChild(com.webmethods.portal.service.meta2.thing.IThingID, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.meta2.thing.IThingID getPrincipalThingID(com.webmethods.portal.bizPolicy.IContext, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.view.IListView getSortedChildren(com.webmethods.portal.service.meta2.thing.IThingID)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.system.IURI getUriForID(java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.meta2.thing.IThingID getUserHomeFolder(java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.view.IView getView(com.webmethods.portal.system.IURI)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public com.webmethods.portal.service.view.IView getView(java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public java.lang.String getXTypeName(com.webmethods.portal.service.meta2.thing.IThingID)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public java.lang.String

makeUniqueName(javax.jcr.Node, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public java.lang.String makeUniqueName(com.webmethods.portal.service.meta2.thing.IThingID, java.lang.String)' is now implemented in superclass com.webmethods.rtl.util.NoodleUtil

com.webmethods.portal.service.access.IAclManager$AcePropertyDescriptor: Added protected field uri

com.webmethods.portal.service.access.IAclManager$AcePropertyDescriptor: Method 'public com.webmethods.portal.system.IURI getUri()' has been added

com.webmethods.portal.service.access.IAclManager$AcePropertyDescriptor: Method 'public void setUri(com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.service.dir.IDirConstants: Added public field TOTP_ADMIN_ALIAS

com.webmethods.portal.service.dir.IDirConstants: Added public field TOTP_AUTH

com.webmethods.portal.service.dir.IDirConstants: Added public field TOTP_CATEGORY

com.webmethods.portal.service.dir.IDirConstants: Added public field TOTP_CREDENTIALS

com.webmethods.portal.service.dir.IDirConstants: Added public field TOTP_PREFIX

com.webmethods.portal.service.dir.IDirConstants: Added public field TOTP_SERVICE_TOKEN

com.webmethods.portal.service.dir.IDirConstants: Added public field TOTP_TOKEN_NAME

com.webmethods.portal.service.dir.IDirService: Method 'public boolean testConnection()' has been added to an interface

[clirr] INFO: com.webmethods.portal.service.sql.IConnectionInfo: Added public field DEFAULT_RETRY_COUNT

com.webmethods.portal.service.sql.IConnectionInfo: Added public field DEFAULT_RETRY_DELAY

com.webmethods.portal.service.sql.IConnectionProvider: Added public field PARAM_ALIAS_NAME

com.webmethods.portal.service.sql.core.ConnectionInfo: Accessibility of field DEFAULT_RETRY_COUNT has been increased from protected to public

com.webmethods.portal.service.sql.core.ConnectionInfo: Accessibility of field DEFAULT_RETRY_DELAY has been increased from protected to public

com.webmethods.portal.service.sql.core.ConnectionManager: Added com.webmethods.portal.service.sql.IConnectionManager to the set of implemented interfaces

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field DB2_DRIVER is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field DB2_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field DB2_URL_TEMPLATE is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field DERBY_DRIVER is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field DERBY_SERVER_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field DERBY_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field DERBY_URL_TEMPLATE is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field INFORMIX_DRIVER is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field INFORMIX_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field INFORMIX_URL_TEMPLATE is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field MSSQL_DRIVER is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field MSSQL_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field MSSQL_URL_TEMPLATE is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field MYSQL_DRIVER is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field MYSQL_SERVER_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field MYSQL_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field MYSQL_URL_TEMPLATE is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field ORACLE_DRIVER is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field ORACLE_THIN_DRIVER is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field ORACLE_THIN_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field ORACLE_THIN_URL_TEMPLATE is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field ORACLE_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field ORACLE_URL_PARSER_EXPRESSION_SERVICENAME is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field ORACLE_URL_TEMPLATE is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field ORACLE_URL_TEMPLATE_SERVICENAME is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field POSTGRESQL_DRIVER is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field POSTGRESQL_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field POSTGRESQL_URL_TEMPLATE is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SERVER_DB2 is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SERVER_DERBY is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SERVER_MSSQL is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SERVER_MYSQL is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SERVER_ORACLE is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SERVER_POSTGRESQL is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SYBASE_DRIVER is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SYBASE_URL_PARSER_EXPRESSION is now final

[clirr] WARNING: com.webmethods.portal.service.sql.core.ConnectionManager: Field SYBASE_URL_TEMPLATE is now final

com.webmethods.portal.service.sql.core.provider.pool.PooledConnectionProvider: Added public field TEMP_POOL_NAME

com.webmethods.portal.service.sql.runtime.MySqlDatabaseRuntime: Method 'public java.lang.String getFieldName(java.lang.String)' has been added

com.webmethods.portal.service.sql.runtime.base.AddKeywordToApp: Method 'public java.lang.String getInsertStatement()' has been added

com.webmethods.portal.service.sql.runtime.base.BaseStoredProcedure: Method 'protected java.lang.String getDBFieldName(java.lang.String)' has been added

com.webmethods.portal.service.sql.runtime.base.BaseStoredProcedure: Method 'protected java.lang.String getFieldName(java.lang.String)' has been added

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesPaged: In method 'protected void addFromIndexParams(int, java.util.Map, com.webmethods.portal.service.task.TaskSearchQueryV2)' the number of arguments has changed

com.webmethods.portal.service.sql.runtime.mysql.TaskSearchFromInboxesPaged: Method 'protected void addFromIndexParams(java.util.Map, com.webmethods.portal.service.task.TaskSearchQueryV2)' has been added

com.webmethods.portal.service.task.ITaskConstants: Added public field TASK_OPERATION_VOTING_STRATEGY_UPDATE

com.webmethods.portal.service.task.ITaskSearchQueryExtended: Method 'public boolean isActiveVoting()' has been added to an interface

com.webmethods.portal.service.task.ITaskSystem: Method 'public com.webmethods.portal.service.task.ITaskConnectivityService getTaskConnectivityService()' has been added to an interface

com.webmethods.portal.service.task.ITaskVotingService: Method 'public com.webmethods.portal.service.task.ITaskVotingStrategyManagerFactory getTaskVotingStrategyFactory()' has been added to an interface

com.webmethods.portal.service.task.ITaskVotingService: Method 'public com.webmethods.portal.service.task.ITaskVotingStrategyProvider getTaskVotingStrategyProvider()' has been added to an interface

com.webmethods.portal.service.task.ITaskVotingStrategyManager: In method 'public void executeStatusRecalculation(com.webmethods.portal.service.task.ITaskDefinition)' the number of arguments has changed

com.webmethods.portal.service.task.ITaskVotingStrategyManager: Parameter 1 of 'public void updateTaskVotingStrategy(com.webmethods.portal.service.task.ITaskDefinition, boolean)' has changed its type to com.webmethods.portal.system.IURI

com.webmethods.portal.service.task.ITaskVotingStrategyManager: Parameter 2 of 'public void updateTaskVotingStrategy(com.webmethods.portal.service.task.ITaskDefinition, boolean)' has changed its type to com.webmethods.portal.service.task.ITaskDefinition

com.webmethods.portal.service.task.ITaskVotingStrategyManager: In method 'public void updateTaskVotingStrategy(com.webmethods.portal.service.task.ITaskDefinition)' the number of arguments has changed

com.webmethods.portal.system.IConstants: Added public field SYSTEM_PATH_DATA

com.webmethods.portal.system.PortalSystem: Added public field PORTAL_HOME

com.webmethods.portal.system.PortalSystem: Added public field SERVER_HOME

com.webmethods.portal.system.PortalSystem: Field m_componentProviderNames is now static

com.webmethods.portal.system.PortalSystem: Field m_componentProviders is now static

com.webmethods.portal.system.PortalSystem: Method 'public com.webmethods.rtl.container.ContainerMetaInfo getContainerConfig()' has been added

com.webmethods.portal.system.PortalSystem: Method 'public boolean isContainer()' has been added

com.webmethods.portal.system.cluster.IClusterProvider: Added public field USE_DB_JMS

com.webmethods.portal.system.lock.IClusterLock: Method 'public com.webmethods.portal.system.IURI getTaskURI()' has been deprecated

com.webmethods.portal.system.lock.IClusterLock: Method 'public boolean isExpired(java.util.Date)' has been deprecated

com.webmethods.portal.system.lock.IClusterLockingService: Added public field LOCK_MAX_TIME

com.webmethods.portal.system.lock.IClusterLockingService: Added public field LOCK_MAX_WAIT_TIME

com.webmethods.portal.system.lock.IClusterLockingService: Method 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, long, long, boolean)' has been deprecated

com.webmethods.portal.system.lock.IClusterLockingService: Method 'public void removeFromTLS(com.webmethods.portal.system.lock.IClusterLock)' has been added to an interface

com.webmethods.portal.webapp.jetty7.MwsAuthenticator$MwsUser: Added org.eclipse.jetty.server.Authentication$LogoutAuthentication to the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.MwsAuthenticator$MwsUser: Method 'public org.eclipse.jetty.server.Authentication logout(javax.servlet.ServletRequest)' has been added

com.webmethods.portal.webapp.jetty7.MwsLoginService: Added org.eclipse.jetty.util.component.Container to the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.MwsLoginService: Added org.eclipse.jetty.util.component.Destroyable to the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.MwsLoginService: Added org.eclipse.jetty.util.component.Dumpable to the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.MwsLoginService: Added org.eclipse.jetty.security.AbstractLoginService to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsLoginService: Added org.eclipse.jetty.security.HashLoginService to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsLoginService: Removed org.eclipse.jetty.security.MappedLoginService from the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsLoginService: Added
org.eclipse.jetty.util.component.ContainerLifeCycle to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsLoginService: Method 'protected java.lang.String[]
loadRoleInfo(org.eclipse.jetty.security.AbstractLoginService$UserPrincipal)' has been added

com.webmethods.portal.webapp.jetty7.MwsLoginService: Method 'protected
org.eclipse.jetty.server.UserIdentity loadUser(java.lang.String)' has been removed

com.webmethods.portal.webapp.jetty7.MwsLoginService: Method 'protected
org.eclipse.jetty.security.AbstractLoginService$UserPrincipal loadUserInfo(java.lang.String)' has been
added

com.webmethods.portal.webapp.jetty7.MwsLoginService: In method 'public
org.eclipse.jetty.server.UserIdentity login(java.lang.String, java.lang.Object)' the number of arguments
has changed

com.webmethods.portal.webapp.jetty7.MwsLoginService$MwsKnownUser: Removed
org.eclipse.jetty.security.MappedLoginService$UserPrincipal from the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.MwsLoginService$MwsKnownUser: Added
org.eclipse.jetty.security.AbstractLoginService$UserPrincipal to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsLoginService$MwsKnownUser: Method 'public
java.lang.String getName()' has been removed, but an inherited definition exists.

com.webmethods.portal.webapp.jetty7.MwsSessionFactory: Return type of method 'public
org.eclipse.jetty.server.session.AbstractSession getMwsSession(java.lang.String)' has been changed to
org.eclipse.jetty.server.session.Session

com.webmethods.portal.webapp.jetty7.MwsSessionFactory: Method 'public
org.eclipse.jetty.server.session.SessionCache
getSessionCache(org.eclipse.jetty.server.session.SessionHandler)' has been added

com.webmethods.portal.webapp.jetty7.MwsSessionFactory: Return type of method 'public
org.eclipse.jetty.server.session.AbstractSession
newSession(com.webmethods.portal.webapp.jetty7.MwsSessionManager,
javax.servlet.http.HttpServletRequest)' has been changed to org.eclipse.jetty.server.session.Session

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Added org.eclipse.jetty.server.Handler to
the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Added
org.eclipse.jetty.server.HandlerContainer to the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Removed
org.eclipse.jetty.server.SessionManager from the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Added
org.eclipse.jetty.server.handler.AbstractHandler to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Added
org.eclipse.jetty.server.handler.AbstractHandlerContainer to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Added
org.eclipse.jetty.server.handler.HandlerWrapper to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Added
org.eclipse.jetty.server.handler.ScopedHandler to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Removed
org.eclipse.jetty.server.session.AbstractSessionManager from the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Removed
org.eclipse.jetty.server.session.HashSessionManager from the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Added
org.eclipse.jetty.server.session.SessionHandler to the list of superclasses

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Parameter 1 of 'protected void
addAuthInfo(org.eclipse.jetty.server.session.AbstractSession)' has changed its type to
org.eclipse.jetty.server.session.Session

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Parameter 1 of 'protected void
addContextLocale(org.eclipse.jetty.server.session.AbstractSession)' has changed its type to
org.eclipse.jetty.server.session.Session

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Parameter 1 of 'protected void
addSubject(org.eclipse.jetty.server.session.AbstractSession)' has changed its type to
org.eclipse.jetty.server.session.Session

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Method 'protected
org.eclipse.jetty.server.session.Session createHttpSession(javax.servlet.http.HttpServletRequest)' has
been added

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Method 'protected void doStop()' has
been added

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Return type of method 'public
org.eclipse.jetty.server.session.AbstractSession getSession(java.lang.String)' has been changed to
org.eclipse.jetty.server.session.Session

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Method 'public void
invalidate(java.lang.String)' has been added

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Method 'public
javax.servlet.http.HttpSession newHttpSession(javax.servlet.http.HttpServletRequest)' has been added

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Method 'public
org.eclipse.jetty.server.session.AbstractSession newSession(javax.servlet.http.HttpServletRequest)' has
been removed

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Parameter 1 of 'public boolean
removeSession(org.eclipse.jetty.server.session.AbstractSession, boolean)' has changed its type to
java.lang.String

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Return type of method 'public boolean

removeSession(org.eclipse.jetty.server.session.AbstractSession, boolean)' has been changed to org.eclipse.jetty.server.session.Session

com.webmethods.portal.webapp.jetty7.MwsSessionManager$MwsSession: Class com.webmethods.portal.webapp.jetty7.MwsSessionManager$MwsSession removed

com.webmethods.portal.webapp.jetty7.WebXMLRewriter: Accessibility of field FIX_BUNDLE_WEB_XML has been weakened from public to package

com.webmethods.portal.webservices.glue.SoapLogLayout: Added org.apache.logging.log4j.core.impl.LocationAware to the set of implemented interfaces

com.webmethods.rtl.LoggingConstants: Added public field LOG_CATEGORY_DIRECTORY

com.webmethods.portal.webapp.jetty7.MwsLoginService$MwsKnownUser: Method 'public boolean isAuthenticated()' has been removed

com.webmethods.rtl.jms.PortalClientOverJMS: Method 'public com.webmethods.portal.service.task.RecalculationStatus getRecalculationStatus(java.util.Map)' has been added

com.webmethods.rtl.jms.PortalClientOverJMS: Method 'public java.lang.String voteTask(java.util.Map)' has been added

com.webmethods.rtl.logging.QueueJMSAppender: Added org.apache.logging.log4j.core.impl.LocationAware to the set of implemented interfaces

com.webmethods.rtl.logging.SafeXMLLayout: Added org.apache.logging.log4j.core.impl.LocationAware to the set of implemented interfaces

com.webmethods.rtl.mail.MailUtil: Added protected field mwsEmailProps

com.webmethods.rtl.mail.MailUtilService: Added com.webmethods.portal.event.IClassUpdateEvent$ISynchronousListener to the set of implemented interfaces

com.webmethods.rtl.mail.MailUtilService: Added com.webmethods.portal.event.IComponentEvent$ISynchronousListener to the set of implemented interfaces

com.webmethods.rtl.mail.MailUtilService: Added com.webmethods.portal.system.IComponent to the set of implemented interfaces

com.webmethods.rtl.mail.MailUtilService: Added com.webmethods.portal.system.IComponentProvider to the set of implemented interfaces

com.webmethods.rtl.mail.MailUtilService: Added com.webmethods.portal.system.IConstants to the set of implemented interfaces

com.webmethods.rtl.mail.MailUtilService: Added com.webmethods.portal.system.IURIResolver to the set of implemented interfaces

com.webmethods.rtl.mail.MailUtilService: Added com.webmethods.portal.system.init.IInitializable to the set of implemented interfaces

com.webmethods.rtl.mail.MailUtilService: Added com.webmethods.portal.system.BaseComponent to the list of superclasses

com.webmethods.rtl.mail.MailUtilService: Added com.webmethods.portal.system.impl.BaseProvider to the list of superclasses

com.webmethods.rtl.mail.MailUtilService: Method 'protected void activate(java.util.Map)' is now implemented in superclass com.webmethods.portal.system.impl.BaseProvider

com.webmethods.rtl.mail.MailUtilService: Method 'protected void deactivate()' is now implemented in superclass com.webmethods.portal.system.impl.BaseProvider

com.webmethods.rtl.mail.MailUtilService: Method 'protected void initComponents(java.lang.String)' has been added

com.webmethods.rtl.mail.MailUtilService: Method 'public void shutdown()' has been added

com.webmethods.rtl.mail.MailUtilService: Method 'public void updateConfig(java.util.Map)' has been added

com.webmethods.rtl.mail.api.IMailUtil: Added com.webmethods.portal.system.IComponent to the set of implemented interfaces

com.webmethods.rtl.mail.api.IMailUtil: Added com.webmethods.portal.system.IComponentProvider to the set of implemented interfaces

com.webmethods.rtl.mail.api.IMailUtil: Added com.webmethods.portal.system.IURIResolver to the set of implemented interfaces

com.webmethods.rtl.mail.api.IMailUtil: Added com.webmethods.portal.system.init.IInitializable to the set of implemented interfaces

com.webmethods.rtl.mail.api.IMailUtil: Added public field ADMIN_EMAIL_ADDRESS

com.webmethods.rtl.mail.api.IMailUtil: Added public field DCS_EMAIL_ADDRESS

com.webmethods.rtl.mail.api.IMailUtil: Added public field DCS_EMAIL_FROM

com.webmethods.rtl.mail.api.IMailUtil: Added public field DEFAULT_SMTP_PROTOCOL_VALUE

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_MAIL_DEBUG

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_SMTP_CONNECTION_TIMEOUT

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_SMTP_HOST

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_SMTP_PASSWORD

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_SMTP_PORT

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_SMTP_PROTOCOL

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_SMTP_TIMEOUT

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_SMTP_TLS_ENABLED

com.webmethods.rtl.mail.api.IMailUtil: Added public field SYSTEM_SMTP_USERNAME

com.webmethods.rtl.mail.api.IMailUtil: Method 'public void updateConfig(java.util.Map)' has been added to an interface

com.webmethods.rtl.msg.jms.JMSProvider: Accessibility of method 'protected void onConnect(java.lang.String, javax.jms.Connection)' has been increased from protected to public

com.webmethods.rtl.util.Debug: Added public field LOG_DEFAULT

com.webmethods.rtl.util.FileUtil: Method 'public boolean dirExists(java.lang.String)' has been added

Removed API	Replacement, if any
com.webmethods.caf.faces.data.dir.DirectorySearchProvider$PrincipalSortComparator: Class com.webmethods.caf.faces.data.dir.DirectorySearchProvider$PrincipalSortComparator removed	
com.webmethods.caf.faces.data.dir.PeopleSearchProvider$PrincipalSortComparator: Class com.webmethods.caf.faces.data.dir.PeopleSearchProvider$PrincipalSortComparator removed	
com.webmethods.caf.faces.data.task.ITaskVotingStrategy: Class com.webmethods.caf.faces.data.task.ITaskVotingStrategy removed	
com.webmethods.portal.noodle.preferences.UserPreferences: Class com.webmethods.portal.noodle.preferences.UserPreferences removed	
com.webmethods.portal.service.task.TaskVotingStrategyManagerFactory: Class com.webmethods.portal.service.task.TaskVotingStrategyManagerFactory removed	
com.webmethods.portal.service.task.TaskVotingStrategyManagerFactoryInitializer: Class com.webmethods.portal.service.task.TaskVotingStrategyManagerFactoryInitializer removed	

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Added API	Description
com.webmethods.portal.mech.task.ITaskMechanics: Method 'public void fireTaskVotingStrategyUpdateStopEvent(com.webmethods.portal.service.task.ITaskDefinition)' has been added to an interface	
com.webmethods.portal.mech.task.ITaskMechanics: Method 'public void fireTaskVotingStrategyUpdateStopEvent(com.webmethods.portal.service.task.ITaskDefinition, java.lang.String)' has been added to an interface	
com.webmethods.portal.service.task.ITaskSystem: Method 'public com.webmethods.portal.service.task.ITaskVotingService getTaskVotingService()' has been added to an interface	
com.webmethods.portal.system.IComponentProvider: Method 'public org.slf4j.Logger getLogger()' has been added to an interface	
com.webmethods.rtl.event.ecs.IJMSSupport: Method 'public	

com.webmethods.rtl.event.ecs.IJMSSupport$IJMSQueue createQueue(java.lang.String, boolean)' has been added to an interface

com.webmethods.rtl.event.ecs.IJMSSupport: Method 'public com.webmethods.rtl.event.ecs.IJMSSupport$IJMSTopic createTopic(java.lang.String, boolean, boolean)' has been added to an interface

Removed API	Replacement, if any

com.webmethods.caf.rules.IRuleContext: Method 'public void setLogCategory(org.apache.log4j.Category)' has been removed

com.webmethods.caf.rules.impl.BaseTerm: Removed field logCategory

com.webmethods.caf.rules.impl.RuleContext: Method 'public org.apache.log4j.Category getLogCategory()' has been removed

com.webmethods.caf.rules.impl.RuleContext: Method 'public void setLogCategory(org.apache.log4j.Category)' has been removed

com.webmethods.caf.wsclient.session.impl.WSClientSession: Method 'protected void updateSessionPoolCookies()' has been removed

com.webmethods.management.jmx.Log4JMXAppender: Removed org.apache.log4j.Appender from the set of implemented interfaces

com.webmethods.management.jmx.Log4JMXAppender: Removed org.apache.log4j.spi.OptionHandler from the set of implemented interfaces

com.webmethods.management.jmx.Log4JMXAppender: Removed org.apache.log4j.AppenderSkeleton from the list of superclasses

com.webmethods.management.jmx.Log4JMXAppender: Method 'public void close()' has been removed

com.webmethods.management.jmx.Log4JMXAppender: Method 'public boolean requiresLayout()' has been removed

com.webmethods.portal.event.system.ILogMessageEvent: Method 'public org.apache.log4j.spi.LoggingEvent getLoggingEvent()' has been removed

com.webmethods.portal.event.system.impl.LogMessageEvent: Method 'public org.apache.log4j.spi.LoggingEvent getLoggingEvent()' has been removed

com.webmethods.portal.framework.dispatch.handlers.system.Logout: Field RETURN_URL_ATTR has been removed, but it was previously a constant

com.webmethods.portal.jms.JMSPhaseProvider: Method 'public com.webmethods.rtl.msg.jms.JMSProvider getProvider()' has been removed

com.webmethods.portal.mech.task.impl.TaskChangeHandler: Method 'protected void processScheduleRulesInFolder(com.webmethods.portal.mech.task.impl.TaskRuleContext, com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, java.util.List)' has been removed

com.webmethods.portal.service.install.impl.BaseInstallService: Method 'public org.apache.log4j.Category getLogCategory()' has been removed

com.webmethods.portal.service.scheduler.Scheduler: Method 'protected void bindClusterLockingService(com.webmethods.portal.system.lock.IClusterLockingService)' has been removed

com.webmethods.portal.service.scheduler.Scheduler: Method 'protected void unbindClusterLockingService(com.webmethods.portal.system.lock.IClusterLockingService)' has been removed

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesByTagCount: Method 'protected void orderParameters(com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo)' has been removed

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesByTagPaged: Method 'protected void orderParameters(com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo)' has been removed

com.webmethods.portal.system.IComponentProvider: Method 'public org.apache.log4j.Category getLogCategory()' has been removed

com.webmethods.portal.webapp.jetty7.RelocatedClassUpdater$ModifierClassWriter: Removed org.objectweb.asm.ClassVisitor from the set of implemented interfaces

com.webmethods.portal.webapp.jetty7.RelocatedClassUpdater$ModifierMethodWriter: Removed org.objectweb.asm.MethodVisitor from the set of implemented interfaces

com.webmethods.portal.webservices.glue.SoapLogLayout: Removed org.apache.log4j.spi.OptionHandler from the set of implemented interfaces

com.webmethods.portal.webservices.glue.SoapLogLayout: Removed org.apache.log4j.Layout from the list of superclasses

com.webmethods.portal.webservices.glue.SoapLogLayout: Removed org.apache.log4j.xml.XMLLayout from the list of superclasses

com.webmethods.portal.webservices.glue.SoapLogLayout: Method 'public java.lang.String format(org.apache.log4j.spi.LoggingEvent)' has been removed

com.webmethods.rtl.logging.CollectorCategory: Class com.webmethods.rtl.logging.CollectorCategory removed

com.webmethods.rtl.logging.CollectorCategoryFactory: Class com.webmethods.rtl.logging.CollectorCategoryFactory removed

com.webmethods.rtl.logging.CollectorConsoleAppender: Class com.webmethods.rtl.logging.CollectorConsoleAppender removed

com.webmethods.rtl.logging.CollectorFileAppender: Class com.webmethods.rtl.logging.CollectorFileAppender removed

com.webmethods.rtl.logging.CollectorLoggingEvent: Class
com.webmethods.rtl.logging.CollectorLoggingEvent removed

com.webmethods.rtl.logging.CollectorPatternLayout: Class
com.webmethods.rtl.logging.CollectorPatternLayout removed

com.webmethods.rtl.logging.CollectorPatternParser: Class
com.webmethods.rtl.logging.CollectorPatternParser removed

com.webmethods.rtl.logging.EmailEventEvaluator: Class
com.webmethods.rtl.logging.EmailEventEvaluator removed

com.webmethods.rtl.logging.EnhancedPatternLayout: Class
com.webmethods.rtl.logging.EnhancedPatternLayout removed

com.webmethods.rtl.logging.LoggingUtils: Method 'public org.apache.log4j.Priority getAppenderPriority(org.apache.log4j.AppenderSkeleton)' has been removed

com.webmethods.rtl.logging.QueueJMSAppender: Removed org.apache.log4j.Appender from the set of implemented interfaces

com.webmethods.rtl.logging.QueueJMSAppender: Removed org.apache.log4j.spi.OptionHandler from the set of implemented interfaces

com.webmethods.rtl.logging.QueueJMSAppender: Removed org.apache.log4j.AppenderSkeleton from the list of superclasses

com.webmethods.rtl.logging.QueueJMSAppender: Method 'public void close()' has been removed

com.webmethods.rtl.logging.QueueJMSAppender: Method 'public boolean requiresLayout()' has been removed

com.webmethods.rtl.logging.RunAsServiceConsoleFilter: Removed org.apache.log4j.spi.OptionHandler from the set of implemented interfaces

com.webmethods.rtl.logging.RunAsServiceConsoleFilter: Removed org.apache.log4j.spi.Filter from the list of superclasses

com.webmethods.rtl.logging.RunAsServiceConsoleFilter: Method 'public int decide(org.apache.log4j.spi.LoggingEvent)' has been removed

com.webmethods.rtl.logging.SMTPAppender: Class com.webmethods.rtl.logging.SMTPAppender removed

com.webmethods.rtl.logging.SafeXMLLayout: Removed org.apache.log4j.spi.OptionHandler from the set of implemented interfaces

com.webmethods.rtl.logging.SafeXMLLayout: Removed org.apache.log4j.Layout from the list of superclasses

com.webmethods.rtl.logging.SafeXMLLayout: Removed org.apache.log4j.xml.XMLLayout from the list of superclasses

com.webmethods.rtl.logging.TimeRollingFileAppender: Class

com.webmethods.rtl.logging.TimeRollingFileAppender removed

com.webmethods.rtl.logging.convert.CollectorPatternConverter: Class
com.webmethods.rtl.logging.convert.CollectorPatternConverter removed

com.webmethods.rtl.logging.convert.ComponentPatternConverter: Class
com.webmethods.rtl.logging.convert.ComponentPatternConverter removed

com.webmethods.rtl.logging.convert.HostNamePatternConverter: Class
com.webmethods.rtl.logging.convert.HostNamePatternConverter removed

com.webmethods.rtl.logging.convert.ServerPatternConverter: Class
com.webmethods.rtl.logging.convert.ServerPatternConverter removed

com.webmethods.rtl.logging.convert.VersionPatternConverter: Class
com.webmethods.rtl.logging.convert.VersionPatternConverter removed

com.webmethods.rtl.msg.jms.JMSProvider: Removed field clusterProvider

com.webmethods.rtl.msg.jms.JMSProvider: Method 'public void
setClusterProvider(com.webmethods.portal.system.cluster.IClusterProvider)' has been removed

com.webmethods.rtl.util.Debug: Method 'public org.apache.log4j.Category
getSafeCategory(java.lang.String)' has been removed

com.webmethods.rtl.util.Debug: Method 'public void initByProperties(java.util.Properties)' has been
removed

com.webmethods.rtl.util.Debug: Method 'protected void syncJuliLoggerLevel(org.apache.log4j.Logger,
java.util.logging.Logger)' has been removed

com.webmethods.rtl.util.FileUtil: Method 'public java.lang.String
getRealLocationAtISatTaskApp(java.lang.String, java.lang.String)' has been removed

Changed API	Description

com.webmethods.caf.common.StringTools: Value of field BOOLEAN_FALSE is no longer a compile-
time constant

com.webmethods.caf.common.StringTools: Value of field BOOLEAN_TRUE is no longer a compile-
time constant

com.webmethods.caf.common.StringTools: Value of field SYSTEM_ENCODING is no longer a
compile-time constant

com.webmethods.caf.faces.bean.BaseApplicationBean: Changed type of field m_JournalLogger from
com.webmethods.sc.logging.log4j.WmJournalLogger to
com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

com.webmethods.caf.faces.bean.BaseApplicationBean: Changed type of field m_LoggerFactory from
com.webmethods.sc.logging.log4j.WmLoggerFactory to
com.webmethods.sc.logging.log4j2.logger.WmLoggerFactory

com.webmethods.caf.faces.bean.BaseApplicationBean: Changed type of field m_LoggerFactoryContext from com.webmethods.sc.logging.log4j.LoggerFactoryContext to com.webmethods.sc.logging.log4j2.logger.LoggerFactoryContext

com.webmethods.caf.faces.bean.BaseApplicationBean: Return type of method 'public com.webmethods.sc.logging.log4j.WmJournalLogger getJournalLogger()' has been changed to com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

com.webmethods.caf.faces.component.tree.TreeRowDataColumn: Changed type of field logger from org.apache.log4j.Logger to org.slf4j.Logger

com.webmethods.caf.faces.portlet.BasePortletPhaseListenerWrapper: Changed type of field logger from org.apache.log4j.Logger to org.slf4j.Logger

com.webmethods.caf.faces.render.html.message.MessageRenderer: Changed type of field logger from org.apache.log4j.Logger to org.slf4j.Logger

com.webmethods.caf.faces.util.LogUtils: Value of field LEVEL_DEBUG is no longer a compile-time constant

com.webmethods.caf.faces.util.LogUtils: Value of field LEVEL_ERROR is no longer a compile-time constant

com.webmethods.caf.faces.util.LogUtils: Value of field LEVEL_FATAL is no longer a compile-time constant

com.webmethods.caf.faces.util.LogUtils: Value of field LEVEL_INFO is no longer a compile-time constant

com.webmethods.caf.faces.util.LogUtils: Value of field LEVEL_WARN is no longer a compile-time constant

com.webmethods.caf.wsclient.WSClient: Changed type of field logger from org.apache.log4j.Logger to org.slf4j.Logger

com.webmethods.caf.wsclient.saml.IArtifactFactory: Return type of method 'public java.lang.String validateSAMLResponse(javax.servlet.http.HttpServletRequest, java.lang.String)' has been changed to java.util.Map

com.webmethods.management.jmx.Log4JMXAppender: In method 'public Log4JMXAppender()' the number of arguments has changed

com.webmethods.management.jmx.Log4JMXAppender: Accessibility of method 'public Log4JMXAppender()' has been decreased from public to protected

com.webmethods.management.jmx.Log4JMXAppender: Parameter 1 of 'protected void append(org.apache.log4j.spi.LoggingEvent)' has changed its type to org.apache.logging.log4j.core.LogEvent

com.webmethods.management.jmx.Log4JMXAppender$ILog4JMXAppenderCallback: Parameter 1 of 'public void onEvent(org.apache.log4j.spi.LoggingEvent)' has changed its type to org.apache.logging.log4j.core.LogEvent

com.webmethods.portal.PortalException: Changed type of field logger from org.apache.log4j.Logger to org.slf4j.Logger

com.webmethods.portal.bizPolicy.command.access.RemoveSecurityRealm: Changed type of field logger from org.apache.log4j.Logger to org.slf4j.Logger

com.webmethods.portal.bizPolicy.command.task.rs.TaskHolder: Return type of method 'public java.lang.String getTaskData()' has been changed to java.util.Map

com.webmethods.portal.bizPolicy.command.task.rs.TaskHolder: Parameter 1 of 'public void setTaskData(java.lang.String)' has changed its type to java.util.Map

com.webmethods.portal.event.system.impl.LogMessageEvent: Changed type of field m_loggingEvent from org.apache.log4j.spi.LoggingEvent to org.apache.logging.log4j.core.LogEvent

com.webmethods.portal.event.system.impl.LogMessageEvent: Parameter 1 of 'public LogMessageEvent(org.apache.log4j.spi.LoggingEvent)' has changed its type to org.apache.logging.log4j.core.LogEvent

com.webmethods.portal.jms.db.impl.db2.EventPoll: Changed type of field logger from org.apache.log4j.Logger to org.slf4j.Logger

com.webmethods.portal.mech.task.impl.TaskCompletionHandler: In method 'public TaskCompletionHandler()' the number of arguments has changed

com.webmethods.portal.mech.task.impl.TaskCompletionHandlerIS: In method 'public TaskCompletionHandlerIS()' the number of arguments has changed

com.webmethods.portal.mech.task.impl.TaskTimedEventHandler: Accessibility of field logger has been weakened from protected to private

com.webmethods.portal.mech.task.impl.TaskTimedEventHandler: Return type of method 'public void processTaskTimedEvent(com.webmethods.portal.service.task.event.ITaskTimedEvent)' has been changed to boolean

com.webmethods.portal.service.logging.LoggingService: Parameter 2 of 'public void persistEvent(java.lang.Integer, org.apache.log4j.spi.LoggingEvent)' has changed its type to org.apache.logging.log4j.core.LogEvent

com.webmethods.portal.service.portlet.impl.BasePortletBean: Changed type of field m_logCategory from org.apache.log4j.Category to org.slf4j.Logger

com.webmethods.portal.service.sql.impl.JdbcUtil: Parameter 2 of 'public void logResultSet(java.sql.ResultSet, org.apache.log4j.Category)' has changed its type to org.slf4j.Logger

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesByTagCount: Method 'protected void orderParameters(com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo)' has been removed

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesByTagPaged: Method 'protected void orderParameters(com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo)' has been

removed

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory: In method 'public void addTaskClassLoader(java.lang.String, java.net.URLClassLoader)' the number of arguments has changed

com.webmethods.portal.service.task.impl.TaskThing: Changed type of field m_pendingUpdates from int to java.util.concurrent.atomic.AtomicInteger

com.webmethods.portal.webservices.glue.SoapLogLayout: In method 'public SoapLogLayout()' the number of arguments has changed

com.webmethods.portal.webservices.wsclient.OldPortalArtifactFactory: Return type of method 'public java.lang.String validateSAMLResponse(javax.servlet.http.HttpServletRequest, java.lang.String)' has been changed to java.util.Map

com.webmethods.portal.webservices.wsclient.PortalArtifactFactory: Return type of method 'public java.lang.String validateSAMLResponse(javax.servlet.http.HttpServletRequest, java.lang.String)' has been changed to java.util.Map

com.webmethods.rtl.event.ecs.IJMSSupport: Method 'public com.webmethods.rtl.event.ecs.IJMSSupport$IJMSQueue createQueue(java.lang.String, boolean)' has been added to an interface

com.webmethods.rtl.event.ecs.IJMSSupport: Method 'public com.webmethods.rtl.event.ecs.IJMSSupport$IJMSTopic createTopic(java.lang.String, boolean, boolean)' has been added to an interface

com.webmethods.rtl.logging.LoggingUtils: Return type of method 'public org.apache.log4j.AppenderSkeleton getAppenderByName(java.lang.String)' has been changed to org.apache.logging.log4j.core.appender.AbstractAppender

com.webmethods.rtl.logging.LoggingUtils: Parameter 1 of 'public org.apache.log4j.Level getCategoryPriority(org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.logging.LoggingUtils: Return type of method 'public org.apache.log4j.Level getCategoryPriority(org.apache.log4j.Category)' has been changed to org.apache.logging.log4j.Level

com.webmethods.rtl.logging.LoggingUtils: Return type of method 'public org.apache.log4j.Category getLogCategory()' has been changed to org.apache.logging.log4j.Logger

com.webmethods.rtl.logging.LoggingUtils: Parameter 1 of 'public java.lang.String toString(org.apache.log4j.spi.LoggingEvent)' has changed its type to org.apache.logging.log4j.core.LogEvent

com.webmethods.rtl.logging.QueueJMSAppender: Removed org.apache.log4j.Appender from the set of implemented interfaces

com.webmethods.rtl.logging.QueueJMSAppender: Removed org.apache.log4j.spi.OptionHandler from the set of implemented interfaces

com.webmethods.rtl.logging.QueueJMSAppender: Removed org.apache.log4j.AppenderSkeleton from

the list of superclasses

com.webmethods.rtl.logging.QueueJMSAppender: In method 'public QueueJMSAppender()' the number of arguments has changed

com.webmethods.rtl.logging.QueueJMSAppender: Accessibility of method 'public QueueJMSAppender()' has been decreased from public to protected

com.webmethods.rtl.logging.QueueJMSAppender: Parameter 1 of 'public void append(org.apache.log4j.spi.LoggingEvent)' has changed its type to org.apache.logging.log4j.core.LogEvent

com.webmethods.rtl.logging.QueueJMSAppender: Parameter 1 of 'public void publishEvent(org.apache.log4j.spi.LoggingEvent)' has changed its type to org.apache.logging.log4j.core.LogEvent

com.webmethods.rtl.logging.RunAsServiceConsoleFilter: Removed org.apache.log4j.spi.OptionHandler from the set of implemented interfaces

com.webmethods.rtl.logging.RunAsServiceConsoleFilter: Removed org.apache.log4j.spi.Filter from the list of superclasses

com.webmethods.rtl.logging.RunAsServiceConsoleFilter: In method 'public RunAsServiceConsoleFilter()' the number of arguments has changed

com.webmethods.rtl.logging.RunAsServiceConsoleFilter: Accessibility of method 'public RunAsServiceConsoleFilter()' has been decreased from public to private

com.webmethods.rtl.logging.SafeXMLLayout: Added final modifier to class

com.webmethods.rtl.logging.SafeXMLLayout: In method 'public SafeXMLLayout()' the number of arguments has changed

com.webmethods.rtl.logging.SafeXMLLayout: Accessibility of method 'public SafeXMLLayout()' has been decreased from public to private

com.webmethods.rtl.logging.SafeXMLLayout: In method 'public java.lang.String format(org.apache.log4j.spi.LoggingEvent)' the number of arguments has changed

com.webmethods.rtl.logging.SafeXMLLayout: Accessibility of method 'public java.lang.String format(org.apache.log4j.spi.LoggingEvent)' has been decreased from public to private

com.webmethods.rtl.mail.MailDataSource: Value of field DEFAULT_ENCODING is no longer a compile-time constant

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void assertCollection(java.util.Collection, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void assertCondition(boolean, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void assertMap(java.util.Map, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void assertObjectExists(java.lang.Object, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void assertStr(java.lang.String, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void debug(java.lang.String, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void debug(java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void debug(java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void debug(java.lang.String, java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void error(java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void error(java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void error(java.lang.String, java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void fatal(java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void fatal(java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void fatal(java.lang.String, java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void fatal(java.lang.String, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Return type of method 'public java.util.Enumeration getCategories()' has been changed to java.util.Map

com.webmethods.rtl.util.Debug: Return type of method 'public org.apache.log4j.Category getLogCategory(java.lang.String)' has been changed to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 1 of 'public boolean hasDebugPriority(org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 1 of 'public boolean hasFatalPriority(org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 1 of 'public boolean

hasInfoPriority(org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 1 of 'public boolean hasPriority(org.apache.log4j.Category, org.apache.log4j.Priority)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public boolean hasPriority(org.apache.log4j.Category, org.apache.log4j.Priority)' has changed its type to org.apache.logging.log4j.Level

com.webmethods.rtl.util.Debug: Parameter 1 of 'public boolean hasTracePriority(org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 1 of 'public boolean hasWarnPriority(org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void info(java.lang.String, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void info(java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void info(java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void info(java.lang.String, java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 1 of 'public com.webmethods.sc.logging.log4j.WmJournalLogger setContextJournalLogger(com.webmethods.sc.logging.log4j.WmJournalLogger)' has changed its type to com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

com.webmethods.rtl.util.Debug: Return type of method 'public com.webmethods.sc.logging.log4j.WmJournalLogger setContextJournalLogger(com.webmethods.sc.logging.log4j.WmJournalLogger)' has been changed to com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

com.webmethods.rtl.util.Debug: Parameter 1 of 'public void setDefaultJournalLogger(com.webmethods.sc.logging.log4j.WmJournalLogger)' has changed its type to com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void trace(java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void trace(java.lang.String, java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void warn(java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 2 of 'public void warn(java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void warn(java.lang.String, java.lang.Throwable, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.Debug: Parameter 3 of 'public void warn(java.lang.String, java.lang.String, org.apache.log4j.Category)' has changed its type to org.apache.logging.log4j.Logger

com.webmethods.rtl.util.StringTools: Value of field BOOLEAN_FALSE is no longer a compile-time constant

com.webmethods.rtl.util.StringTools: Value of field BOOLEAN_TRUE is no longer a compile-time constant

com.webmethods.rtl.util.StringTools: Value of field SYSTEM_ENCODING is no longer a compile-time constant

com.webmethods.rtl.util.journal.ContextJournalLogger: Return type of method 'public com.webmethods.sc.logging.log4j.WmJournalLogger getContextJournalLogger()' has been changed to com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

com.webmethods.rtl.util.journal.ContextJournalLogger: Parameter 1 of 'public com.webmethods.sc.logging.log4j.WmJournalLogger setContextJournalLogger(com.webmethods.sc.logging.log4j.WmJournalLogger)' has changed its type to com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

com.webmethods.rtl.util.journal.ContextJournalLogger: Return type of method 'public com.webmethods.sc.logging.log4j.WmJournalLogger setContextJournalLogger(com.webmethods.sc.logging.log4j.WmJournalLogger)' has been changed to com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

com.webmethods.rtl.util.journal.ContextJournalLogger: Parameter 1 of 'public void setDefaultJournalLogger(com.webmethods.sc.logging.log4j.WmJournalLogger)' has changed its type to com.webmethods.sc.logging.log4j2.logger.WmJournalLogger

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Added API	Description
com.softwareag.caf.controls.mwsx.PeopleSearchBarBean: Method 'public void setAvailableDirectories(com.webmethods.caf.faces.data.ISelectItemGroupProvider)' has been added	
com.softwareag.mws.screens.BaseScreenClass:Class com.softwareag.mws.screens.BaseScreenClass added	
com.softwareag.mws.screens.Constants: Class com.softwareag.mws.screens.Constants added	
com.softwareag.mws.screens.MWSLoginLogoutScreen: Class com.softwareag.mws.screens.MWSLoginLogoutScreen added	

com.softwareag.mws.screens.applications.administration.systemwide.usermanagement.UsersScreen: Class com.softwareag.mws.screens.applications.administration.systemwide.usermanagement.UsersScreen added

com.webmethods.caf.faces.data.dir.PeopleSearchProvider: Method 'protected java.util.List lookupRoles(com.webmethods.caf.faces.search.query.ISearchQuery, int, com.webmethods.portal.bizPolicy.IContext, java.lang.String, boolean)' has been added

com.webmethods.caf.faces.data.dir.PeopleSearchProvider: Method 'protected java.util.List lookupUsersOrGroups(com.webmethods.caf.faces.search.query.ISearchQuery, int, com.webmethods.portal.bizPolicy.IContext, java.lang.String, boolean)' has been added

com.webmethods.caf.faces.data.portal.system.ClusterServersTableContentProvider: Method 'public com.webmethods.portal.system.cluster.IServer$ServerType getServerType()' has been added

com.webmethods.caf.faces.data.task.impl.TaskIndexedSearchContentProvider$TaskSearchPagingServi ce: Method 'protected java.util.List performSearch(com.webmethods.portal.service.task.TaskSearchQueryV2)' has been added

com.webmethods.caf.faces.data.task.impl.TaskIndexedSearchContentProvider$TaskSearchPagingServi ce: Method 'protected int performSearchCount()' has been added

com.webmethods.caf.faces.render.html.HTMLResponseWriter: Added protected field matcher

com.webmethods.caf.portalclient.task.PCTaskHelper: Method 'public java.lang.String[] setInstancesStatus(java.lang.String, java.lang.String, java.lang.String, java.lang.Boolean, java.lang.Integer)' has been added

com.webmethods.caf.portalclient.task.task.ItaskPortType: Method 'public java.lang.String[] setInstancesStatus(java.lang.String, java.lang.String, java.lang.String, java.lang.Boolean, java.lang.Integer)' has been added to an interface

com.webmethods.caf.rules.impl.constant.ObjectArrayConstant: Method 'public java.lang.Object getConstant()' has been added

com.webmethods.caf.wsclient.saml.IArtifactFactory: Added public field SAML_VERSION_1_1

com.webmethods.caf.wsclient.saml.IArtifactFactory: Added public field SAML_VERSION_2_0

com.webmethods.caf.wsserver.auth.saml.ISamlConstants: Added public field SAML_ASSERTION

com.webmethods.portal.bizPolicy.biz.task.ITaskBizPolicy: Method 'public java.lang.String[] setInstancesStatus(com.webmethods.portal.bizPolicy.IContext, java.lang.String, java.lang.String, boolean, int)' has been added to an interface

com.webmethods.portal.bizPolicy.biz.task.impl.TaskBizPolicy: Method 'public java.lang.String[] setInstancesStatus(com.webmethods.portal.bizPolicy.IContext, java.lang.String, java.lang.String, boolean, int)' has been added

com.webmethods.portal.bizPolicy.biz.task.impl.TaskInfoExtended: Method 'public

com.webmethods.portal.service.task.ITask getTask()' has been added

com.webmethods.portal.bizPolicy.command.task.SetInstancesStatus:Class
com.webmethods.portal.bizPolicy.command.task.SetInstancesStatus added

com.webmethods.portal.bizPolicy.command.task.SetInstancesStatus$SetInstancesStatusCommandBean
: Class
com.webmethods.portal.bizPolicy.command.task.SetInstancesStatus$SetInstancesStatusCommandBean
added

com.webmethods.portal.bizPolicy.command.task.jms.SetInstancesStatusJMS: Class
com.webmethods.portal.bizPolicy.command.task.jms.SetInstancesStatusJMS added

com.webmethods.portal.bizPolicy.command.task.jms.api.TaskCommandJMS: Added public field
SET_INSTANCES_STATUS

com.webmethods.portal.bizPolicy.command.task.webservice.SetInstancesStatusWS: Class
com.webmethods.portal.bizPolicy.command.task.webservice.SetInstancesStatusWS added

com.webmethods.portal.bizPolicy.command.task.webservice.SetInstancesStatusWS$SetInstancesStatus
CommandBean: Class
com.webmethods.portal.bizPolicy.command.task.webservice.SetInstancesStatusWS$SetInstancesStatus
CommandBean added

com.webmethods.portal.framework.mech.install.StartWebApplications: Added public field
USE_MULTI_THREAD_STARTUP

com.webmethods.portal.mech.task.ITaskMechanics: Method 'public java.lang.String
canUpdateTask(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI,
java.util.Map)' has been added to an interface

com.webmethods.portal.mech.task.impl.TaskFacesHelper: Method 'public void
registerAdditionalRuleContextBean(java.lang.String, java.lang.Object)' has been added

com.webmethods.portal.service.install.impl.PdpInstallService: Method 'protected void
_doInstallPrepare(java.lang.String, java.util.Map)' has been added

com.webmethods.portal.service.meta2.IDBOStorageService: Method 'public void
createTables(com.webmethods.portal.service.portlet.info.IPortletInfo,
com.webmethods.portal.service.meta2.thing.IThingID, boolean)' has been added to an interface

com.webmethods.portal.service.meta2.impl.UserService: Method 'public void
clearUserIDByURICache()' has been added

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxes: Added public field
SYSTEM_PROPERTY_TE_TASK_SEARCH_INBOX_HINT

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory$TEServletContext: Method 'public
java.lang.ClassLoader getClassLoader()' has been added

com.webmethods.portal.system.cluster.IServer: Added public field SERVER_TYPE_KEY

com.webmethods.portal.system.cluster.IServer: Method 'public
com.webmethods.portal.system.cluster.IServer$ServerType getType()' has been added to an interface

com.webmethods.portal.system.cluster.IServer$ServerType: Class
com.webmethods.portal.system.cluster.IServer$ServerType added

com.webmethods.portal.system.cluster.impl.Server: Method 'public
com.webmethods.portal.system.cluster.IServer$ServerType getType()' has been added

com.webmethods.portal.system.cluster.impl.Server: Method 'public void
setServerType(com.webmethods.portal.system.cluster.IServer$ServerType)' has been added

com.webmethods.portal.system.lock.IClusterLock: Added java.lang.AutoCloseable to the set of
implemented interfaces

com.webmethods.portal.system.lock.IClusterLock: Method 'public void close()' has been added to an
interface

com.webmethods.portal.system.lock.impl.ClusterLock: Added java.lang.AutoCloseable to the set of
implemented interfaces

com.webmethods.portal.system.lock.impl.ClusterLock: Method 'public void close()' has been added

com.webmethods.rtl.jms.PortalClientOverJMS: Method 'public java.lang.String[]
setInstancesStatus(java.util.Map)' has been added

Removed API	Replacement, if any

com.webmethods.portal.framework.mech.install.StartWebApplications: Method 'protected void
startWebApplications(com.webmethods.portal.service.install.IInstallService,
com.webmethods.portal.service.view.IListView)' has been removed

com.webmethods.portal.mech.socialendorsement.impl.EndorsementMechanics: Method 'public
com.webmethods.portal.system.IURI lookupPrincipal(java.lang.Object, int)' has been removed

com.webmethods.portal.mech.socialendorsement.impl.EndorsementMechanics: Method 'public
com.webmethods.portal.system.IURI lookupPrincipal(java.lang.Object)' has been removed

com.webmethods.portal.mech.task.impl.TaskHelper: Method 'public
com.webmethods.portal.service.task.ITaskLockingService getTaskLockingService()' has been removed

com.webmethods.portal.service.task.ITaskLock: Class com.webmethods.portal.service.task.ITaskLock
removed

com.webmethods.portal.service.task.ITaskLockingService: Class
com.webmethods.portal.service.task.ITaskLockingService removed

com.webmethods.portal.service.task.ITaskSystem: Method 'public
com.webmethods.portal.service.task.ITaskLockingService getTaskLockingService()' has been removed

com.webmethods.portal.service.task.impl.TaskDistributionService: Method 'protected java.util.List
returnPagedTaskList(java.lang.String, java.lang.Object[], boolean)' has been removed

com.webmethods.portal.service.task.impl.TaskLock: Class
com.webmethods.portal.service.task.impl.TaskLock removed

com.webmethods.portal.service.task.impl.TaskLockFailedException: Class
com.webmethods.portal.service.task.impl.TaskLockFailedException removed

com.webmethods.portal.service.task.impl.TaskLockingService: Class
com.webmethods.portal.service.task.impl.TaskLockingService removed

com.webmethods.portal.service.task.impl.TaskSystem: Method 'public
com.webmethods.portal.service.task.ITaskLockingService getTaskLockingService()' has been removed

com.webmethods.portal.system.cluster.impl.ClusterProvider: Field
DISTRIBUTED_EVENTS_ENABLED_ATTR has been removed, but it was previously a constant

Deprecated API	Replacement, if any
com.webmethods.rtl.util.FileUtil: Method 'public java.lang.String getRealLocationAtISatTaskApp(java.lang.String, java.lang.String)' has been deprecated	

Changed API	Description
com.webmethods.caf.faces.data.task.TaskDisplayProvider: Accessibility of field taskInfoKey has been increased from private to protected	
com.webmethods.portal.framework.mech.install.StartWebApplications: In method 'public void startWebApplications()' the number of arguments has changed	
com.webmethods.portal.framework.mech.install.StartWebApplications: Accessibility of method 'public void startWebApplications()' has been decreased from public to protected	
com.webmethods.portal.jms.um.UmJMSClient: Field logger is now static	
com.webmethods.portal.service.meta2.dbo.impl.DBOStorageService: In method 'public void createTables(com.webmethods.portal.service.meta2.thing.IThingID, boolean)' the number of arguments has changed	
com.webmethods.portal.service.sql.runtime.base.TaskSearchAll: Accessibility of field taskTables has been increased from package to public	
com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$AcceptedByListFieldMapper: Increased visibility of class from package to public	
com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$CurrentUserAcceptedFieldMapper: Increased visibility of class from package to public	
com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$FieldMapper: Increased visibility of class from package to public	
com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo: Increased visibility of class from protected to public	

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo: Accessibility of field hasBusinessDataFields has been increased from package to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo: Accessibility of field macros has been increased from package to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo:Accessibility of field params has been increased from package to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo: Accessibility of field sql has been increased from package to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$QueryInfo: Accessibility of method 'protected TaskSearchAll$QueryInfo()' has been increased from protected to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll$TableDef: Increased visibility of class from package to public

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxes: Accessibility of field taskInboxTables has been increased from package to public

com.webmethods.portal.service.task.impl.TaskDistributionService:Accessibility of method 'protected int countTasks(com.webmethods.portal.service.task.ITaskSearchQueryExtended, com.webmethods.portal.service.task.SearchContext)' has been decreased from protected to private

com.webmethods.portal.service.task.impl.TaskDistributionService: Accessibility of method 'protected java.util.List getTaskList(com.webmethods.portal.service.task.ITaskSearchQueryExtended, com.webmethods.portal.service.task.SearchContext)' has been decreased from protected to private

Release 10.3

Added API	Description
com.softwareag.mws.screens.BaseScreenClass: Class com.softwareag.mws.screens.BaseScreenClass added	
com.softwareag.mws.screens.Constants: Class com.softwareag.mws.screens.Constants added	
com.softwareag.mws.screens.MWSLoginLogoutScreen: Class com.softwareag.mws.screens.MWSLoginLogoutScreen added	
com.softwareag.mws.screens.applications.administration.systemwide.usermanagement.UsersScreen: Class com.softwareag.mws.screens.applications.administration.systemwide.usermanagement.UsersScreen added	
com.webmethods.bpm.process.impl.BpmProcess: Method 'protected void loadFromIS()' has been added	

com.webmethods.bpm.process.impl.BpmProcessManager: Method 'public BpmProcessManager()' has been added

com.webmethods.bpm.process.impl.BpmProcessManager: Method 'public java.lang.String getDatasourceLibMode()' has been added

com.webmethods.bpm.process.impl.BpmProcessManagerIS: Class com.webmethods.bpm.process.impl.BpmProcessManagerIS added

com.webmethods.bpm.process.impl.db.common.LoadProcessStepsIS: Class com.webmethods.bpm.process.impl.db.common.LoadProcessStepsIS added

com.webmethods.caf.common.ServerCommon: Class com.webmethods.caf.common.ServerCommon added

com.webmethods.caf.common.XMLUtil: Method 'public javax.xml.parsers.DocumentBuilderFactory getBuilderFactory()' has been added

com.webmethods.caf.common.XMLUtil: Method 'public javax.xml.parsers.SAXParserFactory getSAXParserFactory()' has been added

com.webmethods.caf.common.XMLUtil: Method 'public org.xml.sax.XMLReader getXMLParser(java.lang.ClassLoader)' has been added

com.webmethods.caf.faces.application.CAFValueExpression: Method 'public java.lang.Object getCAFValue(javax.el.ELContext)' has been added

com.webmethods.caf.faces.data.object.ObjectMethodContentProvider: Method 'protected boolean isSessionExpired()' has been added

com.webmethods.caf.faces.data.task.TaskBusinessCalendarModel: Method 'protected com.webmethods.sc.calendar.IWorkdayCalendar getCalendarByID(java.lang.String)' has been added

com.webmethods.caf.faces.data.ws.wss.WSSContentProvider: Method 'protected boolean isSessionExpired()' has been added

com.webmethods.caf.faces.portlet.PortletViewHandler: Method 'protected java.lang.String convertViewId(javax.faces.context.FacesContext, java.lang.String)' has been added

com.webmethods.caf.faces.render.html.input.DateInputRenderer: Method 'protected java.lang.Object convertDate(javax.faces.context.FacesContext, javax.faces.component.UIComponent, java.lang.Object, boolean, boolean)' has been added

com.webmethods.caf.wsclient.util.WSClientUtil: Method 'public java.util.Map constructClientAPI(java.lang.Class, java.lang.String, java.lang.String)' has been added

com.webmethods.caf.wsclient.util.WSClientUtil: Method 'public void reloadResource(java.lang.Class)' has been added

com.webmethods.caf.wsclient.util.XSDDateFormatMWS: Class com.webmethods.caf.wsclient.util.XSDDateFormatMWS added

com.webmethods.portal.bizPolicy.command.install.InstallBootstrapComponentsWithDependencies: Method 'protected boolean checkRealLocation(java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.install.InstallBootstrapComponentsWithDependencies: Method 'protected java.lang.String getComponentRealLocation(java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.system.xml.XMLImportContent: Method 'protected boolean checkResourceExists(java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.system.xml.XMLImportIncludeIS: Method 'protected java.io.InputStream getISTaskAppStream(java.lang.String, java.lang.String)' has been added

com.webmethods.portal.bizPolicy.impl.BootstrapPhase: Method 'protected void waitForOSGIServices()' has been added

com.webmethods.portal.jms.JMSPhaseProvider: Method 'protected void bindGlobalProvider(com.webmethods.portal.service.global.IGlobalProvider)' has been added

com.webmethods.portal.jms.JMSPhaseProvider: Method 'protected void bindRemoteEventDelivery(com.webmethods.portal.system.init.IInitializable)' has been added

com.webmethods.portal.mech.dir.impl.DirMechanicsUtils: Method 'public com.webmethods.portal.service.meta2.IUserService getUserService()' has been added

com.webmethods.portal.mech.dir.impl.DirMechanicsUtils: Method 'public com.webmethods.portal.service.meta2.thing.IThingID initializeUserWithResult(com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.mech.dir.impl.DirMechanicsUtils: Method 'public void initializeUser(com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.mech.install.impl.BasicInstallMechanics: Method 'protected boolean checkNeedsComponent(java.util.List, java.lang.String)' has been added

com.webmethods.portal.mech.install.impl.BasicInstallMechanics: Method 'protected java.lang.String getComponentLocationToRealLocation(java.lang.String)' has been added

com.webmethods.portal.mech.install.impl.InstallResolver: Method 'public void init(com.webmethods.portal.system.IComponentData, java.lang.String)' has been added

com.webmethods.portal.mech.install.impl.PortletInstallMechanics: Method 'protected com.webmethods.portal.service.portlet.info.IPortletInfo loadPortletInfo(java.lang.String)' has been added

com.webmethods.portal.mech.install.impl.UpgradeInstallComponentData: Method 'protected java.lang.String getComponentLocationToRealLocation(java.lang.String)' has been added

com.webmethods.portal.mech.portlet.IPortletProviderMechanics: Method 'public com.webmethods.portal.service.portlet.info.IPortletInfo getPortletInfo(java.io.InputStream, java.io.InputStream)' has been added to an interface

com.webmethods.portal.mech.portlet.impl.PortletProviderMechanics: Method 'public com.webmethods.portal.service.portlet.info.IPortletInfo getPortletInfo(java.io.InputStream, java.io.InputStream)' has been added

com.webmethods.portal.mech.portlet.impl.PortletProviderMechanics: Method 'public void

init(com.webmethods.portal.system.IComponentData, java.lang.String)' has been added

com.webmethods.portal.mech.socialbpm.comments.impl.CommentsMechanics: Method 'public com.webmethods.portal.service.meta2.thing.IThingID getThingID(com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.mech.sql.impl.ConnectionManagerMechanicsIS: Class com.webmethods.portal.mech.sql.impl.ConnectionManagerMechanicsIS added

com.webmethods.portal.mech.task.ITaskHelper: Method 'public com.webmethods.portal.system.lock.IClusterLockingService getLockingService()' has been added to an interface

com.webmethods.portal.mech.task.impl.TaskChangeHandler: Method 'public TaskChangeHandler()' has been added

com.webmethods.portal.mech.task.impl.TaskChangeHandlerIS: Method 'public void ensureTaskLwqFileExist(java.lang.String)' has been added

com.webmethods.portal.mech.task.impl.TaskCompletionHandlerIS: Class com.webmethods.portal.mech.task.impl.TaskCompletionHandlerIS added

com.webmethods.portal.mech.task.impl.TaskHelper: Method 'public com.webmethods.portal.system.lock.IClusterLockingService getLockingService()' has been added

com.webmethods.portal.mech.task.impl.TaskHelperService: Method 'public com.webmethods.portal.system.lock.IClusterLockingService getLockingService()' has been added

com.webmethods.portal.mech.task.impl.TaskMechanics: Method 'protected void initHandlers(com.webmethods.portal.system.IComponentData, java.lang.String)' has been added

com.webmethods.portal.mech.task.impl.TaskMechanicsIS: Method 'protected void initHandlers(com.webmethods.portal.system.IComponentData, java.lang.String)' has been added

com.webmethods.portal.mech.task.impl.TaskScheduleHandlerIS: Class com.webmethods.portal.mech.task.impl.TaskScheduleHandlerIS added

com.webmethods.portal.mech.task.impl.TaskTimedEventHandlerIS: Class com.webmethods.portal.mech.task.impl.TaskTimedEventHandlerIS added

com.webmethods.portal.noodle.util.NoodleUtils: Method 'public boolean isForceNewTab(com.webmethods.portal.service.view.IView)' has been added

com.webmethods.portal.service.dir.IDirPrincipal: Method 'public boolean isInitialized()' has been added to an interface

com.webmethods.portal.service.dir.impl.DirSystem: Method 'public void onSynchronousEvent(com.webmethods.portal.event.dir.IDirPrincipalDeleteEvent)' has been added

com.webmethods.portal.service.install.impl.BaseInstallService: Method 'protected java.lang.String getResourceLocation(java.lang.String, java.lang.String)' has been added

com.webmethods.portal.service.install.impl.BaseInstallService: Method 'protected void registerComponent(com.webmethods.portal.system.IInitializableComponentData, java.lang.String)'

has been added

com.webmethods.portal.service.install.impl.PdpInstallService: Method 'protected com.webmethods.portal.schema.wmportletapp.PortletType _loadPortletType(java.util.Map)' has been added

com.webmethods.portal.service.install.impl.PdpInstallService: Method 'protected void _doRegisterComponent(java.util.Map)' has been added

com.webmethods.portal.service.install.impl.PdpInstallService: Method 'protected void _saveTempPortletInitData(java.util.Map)' has been added

com.webmethods.portal.service.meta2.util.ThingHelper: Class com.webmethods.portal.service.meta2.util.ThingHelper added

com.webmethods.portal.service.portlet.IPortletProvider: Method 'public com.webmethods.portal.service.portlet.info.IPortletInfo getPortletInfo(java.io.InputStream, java.io.InputStream)' has been added to an interface

com.webmethods.portal.service.portlet.impl.PortletProvider: Method 'public com.webmethods.portal.service.portlet.info.IPortletInfo getPortletInfo(java.io.InputStream, java.io.InputStream)' has been added

com.webmethods.portal.service.socialbpm.comments.impl.CommentsServiceIS: Class com.webmethods.portal.service.socialbpm.comments.impl.CommentsServiceIS added

com.webmethods.portal.service.sql.ISqlWorker: Method 'public void close()' has been added to an interface

com.webmethods.portal.service.sql.core.BaseSqlWorker: Method 'public boolean isCurrentlyInUse()' has been added

com.webmethods.portal.service.sql.core.BaseSqlWorker: Method 'public void close()' has been added

com.webmethods.portal.service.sql.runtime.base.CommentEntryUserDeleted: Class com.webmethods.portal.service.sql.runtime.base.CommentEntryUserDeleted added

com.webmethods.portal.service.task.ITaskDefinition: Method 'public com.softwareag.caf.shared.task.core.model.TaskDataDefTable getTaskDataTable()' has been added to an interface

com.webmethods.portal.service.task.ITaskSystem: Method 'public com.webmethods.portal.system.lock.IClusterLockingService getLockingService()' has been added to an interface

com.webmethods.portal.service.task.event.impl.TaskChangedEvent: Method 'public boolean isHiddenUpdate()' has been added

com.webmethods.portal.service.task.event.impl.TaskChangedEvent: Method 'public void setHiddenUpdate(boolean)' has been added

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory: Method 'public java.net.URLClassLoader getTaskClassLoader(java.lang.String)' has been added

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory: Method 'public void removeTaskClassLoader(java.lang.String)' has been added

com.webmethods.portal.service.task.impl.TaskDefinitionView: Method 'public com.softwareag.caf.shared.task.core.model.TaskDataDefTable getTaskDataTable()' has been added

com.webmethods.portal.service.task.impl.TaskDistributionServiceIS: Class com.webmethods.portal.service.task.impl.TaskDistributionServiceIS added

com.webmethods.portal.service.task.impl.TaskProcessAuditServiceIS: Class com.webmethods.portal.service.task.impl.TaskProcessAuditServiceIS added

com.webmethods.portal.service.task.impl.TaskSystem: Method 'protected void bindClusterLockingService(com.webmethods.portal.system.lock.IClusterLockingService)' has been added

com.webmethods.portal.service.task.impl.TaskSystem: Method 'public com.webmethods.portal.system.lock.IClusterLockingService getLockingService()' has been added

com.webmethods.portal.system.BaseComponent: Method 'protected void bindGlobalProvider(com.webmethods.portal.service.global.IGlobalProvider)' has been added

com.webmethods.portal.system.PortalSystem: Method 'public boolean isTELibrary()' has been added

com.webmethods.portal.system.init.impl.ClusterPhaseProvider: Method 'protected java.lang.String getLocalConfigRootPath()' has been added

com.webmethods.portal.system.init.impl.ClusterPhaseProvider: Method 'protected void initDbConnection()' has been added

com.webmethods.portal.system.lock.impl.LockKey: Class com.webmethods.portal.system.lock.impl.LockKey added

com.webmethods.portal.webapp.jetty7.WebApplicationInstallService: Method 'protected java.lang.String checkTaskAppVersionIsUptodate(java.lang.String)' has been added

com.webmethods.portal.webapp.jetty7.WebApplicationInstallService: Method 'protected void fixOldTaskClasses(java.io.File, java.lang.String)' has been added

com.webmethods.rtl.locator.impl.ClassLocator: Method 'public ClassLocator(java.lang.String, java.lang.String)' has been added

com.webmethods.rtl.tools.PrettyProperties$NameValue: Class com.webmethods.rtl.tools.PrettyProperties$NameValue added

com.webmethods.rtl.tools.PrettyProperties: Class com.webmethods.rtl.tools.PrettyProperties added

com.webmethods.rtl.util.xml.XMLUtil: Method 'public java.lang.String toString(org.w3c.dom.Node, int, boolean)' has been added

com.webmethods.caf.faces.portlet.PortletViewHandler: Added com.sun.faces.application.view.MultiViewHandler to the list of superclasses

com.webmethods.caf.jcr.faces.data.query.PropertySearchTerm: Added protected field sRandom

com.webmethods.caf.wsclient.proxy.impl.WSClientDynamicProxy: Added public field REMOVE_WSDL_FROM_GLUE_CACHE

com.webmethods.mws.acdl.GenerateAcdlForProject: Added public field OPTION_IS_TASK_ENGINE

com.webmethods.portal.bizPolicy.command.task.webservice.QueueTaskWS: Added protected field DELAY_DEFAULT_VALUE

com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler: Added public field DB_ATTRIBUTES_PROVIDER

com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler: Added public field DB_ATTR_TITLE

com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler: Added public field LDAP_ATTRIBUTES_PROVIDER

com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler: Added public field LDAP_ATTR_TITLE

com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler: Added public field PROFILE_ATTRIBUTES_PROVIDER

com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler: Added public field USER_INFORMATION_TITLE

com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler: Added public field USER_PROFILE_ATTR_TITLE

com.webmethods.portal.framework.presentation.renderers.DefaultRenderer: Added public field CONTENT_SECURITY_CUSTOM_HOSTS_PROP

com.webmethods.portal.framework.presentation.renderers.DefaultRenderer: Added public field CONTENT_SECURITY_DISABLED_PROP

com.webmethods.portal.framework.presentation.renderers.DefaultRenderer: Added public field CONTENT_SECURITY_POLICY_ENABLED

com.webmethods.portal.service.dir.impl.DirSystem: Added com.webmethods.portal.event.dir.IDirPrincipalDeleteEvent$ISynchronousListener to the set of implemented interfaces

com.webmethods.portal.service.sql.ISqlWorker: Added java.lang.AutoCloseable to the set of implemented interfaces

com.webmethods.portal.service.sql.core.BaseSqlWorker: Added java.lang.AutoCloseable to the set of implemented interfaces

com.webmethods.portal.service.sql.core.ConnectionManager: Added public field ORACLE_URL_PARSER_EXPRESSION_SERVICENAME

com.webmethods.portal.service.sql.core.ConnectionManager: Added public field ORACLE_URL_TEMPLATE_SERVICENAME

com.webmethods.portal.service.task.event.impl.TaskChangedEvent: Added protected field hiddenUpdate

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory: Added public field TASK_ASSETS_HOME_PROP

com.webmethods.portal.system.PortalSystem: Added public field TASK_ENGINE_LIBRARY_MODE

com.webmethods.rtl.locator.impl.StreamLocatorFactory: Added public field TEMP_PROTOCOL

Removed API	Replacement, if any

com.webmethods.caf.faces.portlet.PortletViewHandler: Method 'public java.lang.Object getWrapped()' has been removed

com.webmethods.caf.faces.portlet.PortletViewHandler: Method 'public javax.faces.application.ViewHandler getWrapped()' has been removed

com.webmethods.portal.bizPolicy.command.dir.rs.BasePrincipalResource: Method 'protected java.util.List getProfileAttributes(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.service.dir.IDirPrincipal)' has been removed

com.webmethods.portal.bizPolicy.command.system.xml.XMLImportContextIS: Method 'protected com.webmethods.portal.system.IURI importNode(com.webmethods.portal.bizPolicy.IContext, org.w3c.dom.Element, com.webmethods.portal.system.IURI, java.util.List)' has been removed, but an inherited definition exists.

com.webmethods.portal.event.impl.RemoteEventDeliveryInitializer: Method 'protected void bindJMSPhaseProvider(com.webmethods.portal.system.IComponent)' has been removed

com.webmethods.portal.framework.mech.install.PortletAppilcationInstallMechanics: Method 'protected void clearContextRequestAttributes(com.webmethods.portal.bizPolicy.IContext)' has been removed

com.webmethods.portal.mech.task.ITaskHelper: Method 'public com.webmethods.portal.service.task.ITaskLockingService getTaskLockingService()' has been removed

com.webmethods.portal.mech.task.impl.TaskHelperService: Method 'public com.webmethods.portal.service.task.ITaskLockingService getTaskLockingService()' has been removed

com.webmethods.portal.mech.task.impl.TaskMechanicsIS: Method 'protected com.webmethods.portal.service.task.ITaskList listTasks(com.webmethods.portal.system.IURI, com.webmethods.portal.service.task.TaskSearchQuery, boolean, boolean)' has been removed, but an inherited definition exists.

com.webmethods.portal.service.task.ITaskLockingService: Method 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long)' has been removed

com.webmethods.portal.service.task.ITaskLockingService: Method 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long, boolean)' has been removed

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory$ITaskClassLoader: Class
com.webmethods.portal.service.task.impl.TaskClassLoaderFactory$ITaskClassLoader removed

com.webmethods.portal.service.task.impl.TaskLockingService: Method 'public
com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI,
com.webmethods.portal.system.IURI, long, long)' has been removed

com.webmethods.portal.service.task.impl.TaskLockingService: Method 'public
com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI,
com.webmethods.portal.system.IURI, long, long, boolean)' has been removed

com.webmethods.portal.service.task.impl.TaskLockingService: Method 'public long
getDbTimeOffset()' has been removed

com.webmethods.portal.system.lock.impl.ClusterLockingService: Method 'public long
getDbTimeOffset()' has been removed

com.webmethods.rtl.util.PrettyProperties$NameValue: Class
com.webmethods.rtl.util.PrettyProperties$NameValue removed

com.webmethods.rtl.util.PrettyProperties: Class com.webmethods.rtl.util.PrettyProperties removed

com.webmethods.caf.faces.portlet.PortletViewHandler: Removed field wrapped

com.webmethods.caf.faces.portlet.PortletViewHandler: Removed javax.faces.FacesWrapper from the
set of implemented interfaces

com.webmethods.caf.faces.portlet.PortletViewHandler: Removed
javax.faces.application.ViewHandlerWrapper from the list of superclasses

com.webmethods.caf.jcr.faces.data.query.PropertySearchTerm: Removed field random

com.webmethods.portal.mech.task.impl.TaskMechanics: Removed field
MIN_INBOX_SEARCH_THREADS

com.webmethods.portal.mech.task.impl.TaskMechanics: Removed field
MIN_TASK_UPDATE_THREADS

Deprecated API	Replacement, if any
com.webmethods.portal.mech.task.impl.TaskHelper: Method 'public com.webmethods.portal.service.task.ITaskLockingService getTaskLockingService()' has been deprecated	
com.webmethods.portal.service.sql.ISqlWorker: Method 'public void release()' has been deprecated	
com.webmethods.portal.service.sql.core.BaseSqlWorker: Method 'public void release()' has been deprecated	

Changed API	Description
com.webmethods.caf.faces.component.output.ChartDataColumn: Parameter 1 of 'public void setItemValue(java.lang.Number)' has changed its type to java.lang.Object	
com.webmethods.caf.faces.component.output.ChartDataColumn: Return type of method 'public	

java.lang.Number getItemValue()' has been changed to java.lang.Object

com.webmethods.caf.faces.portlet.PortletViewHandler: In method 'public PortletViewHandler(javax.faces.application.ViewHandler)' the number of arguments has changed

com.webmethods.caf.faces.render.html.input.DateInputRenderer: In method 'protected void writeTimeZone(javax.faces.context.FacesContext, javax.faces.component.UIComponent, java.util.Date)' the number of arguments has changed

com.webmethods.portal.mech.task.impl.TaskMechanics: In method 'public void fireTaskChangedEvent(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, com.webmethods.portal.service.task.ITask, com.webmethods.portal.service.task.ITask, java.lang.Object, java.lang.Object, int, boolean)' the number of arguments has changed

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory: In method 'public java.lang.Object getTaskInstance(java.lang.String)' the number of arguments has changed

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory: In method 'public void addTaskClassLoader(com.webmethods.portal.service.task.impl.TaskClassLoaderFactory$ITaskClassLoader)' the number of arguments has changed

com.webmethods.portal.system.lock.IClusterLockingService: In method 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long, boolean)' the number of arguments has changed

com.webmethods.portal.system.lock.IClusterLockingService: Parameter 2 of 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long)' has changed its type to long

com.webmethods.portal.system.lock.IClusterLockingService: Parameter 4 of 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long)' has changed its type to boolean

com.webmethods.portal.system.lock.impl.ClusterLockingService: In method 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long, boolean)' the number of arguments has changed

com.webmethods.portal.system.lock.impl.ClusterLockingService: Parameter 2 of 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long)' has changed its type to long

com.webmethods.portal.system.lock.impl.ClusterLockingService: Parameter 4 of 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long)' has changed its type to boolean

com.webmethods.rtl.util.xml.XMLUtil: In method 'protected void _dumpXML(org.w3c.dom.Node, java.io.Writer, int, int)' the number of arguments has changed

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Added API	Description
com.softwareag.mws.screens.BaseScreenClass Class com.softwareag.mws.screens.BaseScreenClass added	
com.softwareag.mws.screens.Constants Class com.softwareag.mws.screens.Constants added	
com.softwareag.mws.screens.MWSLoginLogoutScreen Class com.softwareag.mws.screens.MWSLoginLogoutScreen added	
com.softwareag.mws.screens.applications.administration.systemwide.usermanagement.UsersScreen Class com.softwareag.mws.screens.applications.administration.systemwide.usermanagement.UsersScreen added	
com.webmethods.caf.common.cipher.MWSCipherDataStore Class com.webmethods.caf.common.cipher.MWSCipherDataStore added	
com.webmethods.caf.common.cipher.MWSCipherMasterPassword Class com.webmethods.caf.common.cipher.MWSCipherMasterPassword added	
com.webmethods.caf.common.cipher.SecretDS Class com.webmethods.caf.common.cipher.SecretDS added	
com.webmethods.caf.faces.component.util.ShadowComponentMapCacheEntry Class com.webmethods.caf.faces.component.util.ShadowComponentMapCacheEntry added	
com.webmethods.caf.faces.data.attachments.BasePortalContainerAttachmentsProvider Method 'public java.lang.String getEncoding(java.lang.String)' has been added	
com.webmethods.caf.faces.data.comments.impl.CommentsListProvider Method 'public com.webmethods.portal.service.access.IAclManager createAclManager(java.lang.String, java.lang.String)' has been added	
com.webmethods.portal.bizPolicy.biz.task.impl.TaskAuditBizPolicy Method 'public java.util.Collection getWebServiceCommands(com.webmethods.portal.bizPolicy.IContext)' has been added	
com.webmethods.portal.bizPolicy.command.IJSONAdapter Method 'public java.util.Map getSchemaFields(java.lang.Class, java.util.Map, com.webmethods.portal.bizPolicy.command.IJSONAdapterFactory, java.util.Map)' has been added to an interface	
com.webmethods.portal.bizPolicy.command.IJSONAdapterFactory Method 'public java.util.Map getSchemaFields(java.lang.Class, java.util.Map, java.util.Map)' has been added to an interface	
com.webmethods.portal.bizPolicy.command.alias.SetThingAliases Method 'protected void checkAccess(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.mech.alias.IAliasMechanics, com.webmethods.portal.system.IURI)' has been added	

com.webmethods.portal.bizPolicy.command.dir.rs.BasePrincipalResource Method 'protected java.util.List getProfileAttributes(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.service.dir.IDirPrincipal)' has been added

com.webmethods.portal.bizPolicy.command.dir.rs.BasePrincipalResource Method 'public javax.ws.rs.core.Response getPersonalData(javax.servlet.http.HttpServletRequest, java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.dir.rs.DirJSONAdapter Method 'public java.util.Map getSchemaFields(java.lang.Class, java.util.Map, com.webmethods.portal.bizPolicy.command.IJSONAdapterFactory, java.util.Map)' has been added

com.webmethods.portal.bizPolicy.command.impl.CommandBean Method 'protected java.text.SimpleDateFormat getSDF()' has been added

com.webmethods.portal.bizPolicy.command.impl.CommandBean Method 'protected java.text.SimpleDateFormat getSDFDotNet()' has been added

com.webmethods.portal.bizPolicy.command.impl.JSONAdapterFactory Method 'public java.util.Map getSchemaFields(java.lang.Class, java.util.Map, java.util.Map)' has been added

com.webmethods.portal.bizPolicy.command.impl.rs.AbstractJSONAdapter Class com.webmethods.portal.bizPolicy.command.impl.rs.AbstractJSONAdapter added

com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource Method 'protected java.lang.String sanitizeMessage(java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.impl.rs.BaseRestResource Method 'protected javax.ws.rs.core.Response sendException(javax.servlet.http.HttpServletRequest, java.lang.Exception, java.lang.String, int)' has been added

com.webmethods.portal.bizPolicy.command.impl.rs.BasicJSONAdapter Method 'protected com.webmethods.portal.service.view.IView getView(com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.bizPolicy.command.impl.rs.BasicJSONAdapter Method 'protected void addIfNotSetAndNonNullValue(java.lang.String, java.lang.Object, java.util.Map)' has been added

com.webmethods.portal.bizPolicy.command.impl.rs.BasicJSONAdapter Method 'public java.util.Map getSchemaFields(java.lang.Class, java.util.Map, com.webmethods.portal.bizPolicy.command.IJSONAdapterFactory, java.util.Map)' has been added

com.webmethods.portal.bizPolicy.command.impl.rs.BizPolicyResource Class com.webmethods.portal.bizPolicy.command.impl.rs.BizPolicyResource added

com.webmethods.portal.bizPolicy.command.impl.rs.CommandDocBuilder Class com.webmethods.portal.bizPolicy.command.impl.rs.CommandDocBuilder added

com.webmethods.portal.bizPolicy.command.impl.rs.CommandResource Method 'public javax.ws.rs.core.Response getCommandSpecification(javax.servlet.http.HttpServletRequest, javax.servlet.http.HttpServletResponse, java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.impl.rs.CommandResource Method 'public

javax.ws.rs.core.Response getSpecification(javax.servlet.http.HttpServletRequest)' has been added

com.webmethods.portal.bizPolicy.command.impl.rs.ConnectionInfoJSONAdapter Method 'public java.util.Map getSchemaFields(java.lang.Class, java.util.Map, com.webmethods.portal.bizPolicy.command.IJSONAdapterFactory, java.util.Map)' has been added

com.webmethods.portal.bizPolicy.command.impl.rs.DefaultJSONAdapter Class com.webmethods.portal.bizPolicy.command.impl.rs.DefaultJSONAdapter added

com.webmethods.portal.bizPolicy.command.impl.rs.util.FluentList Class com.webmethods.portal.bizPolicy.command.impl.rs.util.FluentList added

com.webmethods.portal.bizPolicy.command.impl.rs.util.FluentMap Class com.webmethods.portal.bizPolicy.command.impl.rs.util.FluentMap added

com.webmethods.portal.bizPolicy.command.impl.rs.util.FluentOrderedMap Class com.webmethods.portal.bizPolicy.command.impl.rs.util.FluentOrderedMap added

com.webmethods.portal.bizPolicy.command.impl.rs.util.IFluentMap Class com.webmethods.portal.bizPolicy.command.impl.rs.util.IFluentMap added

com.webmethods.portal.bizPolicy.command.page.ModifyPage2IS Class com.webmethods.portal.bizPolicy.command.page.ModifyPage2IS added

com.webmethods.portal.bizPolicy.command.system.xml.XMLImportContextIS Class com.webmethods.portal.bizPolicy.command.system.xml.XMLImportContextIS added

com.webmethods.portal.bizPolicy.command.system.xml.XMLImportIncludeIS Class com.webmethods.portal.bizPolicy.command.system.xml.XMLImportIncludeIS added

com.webmethods.portal.bizPolicy.command.task.rs.TaskJSONAdapter Class com.webmethods.portal.bizPolicy.command.task.rs.TaskJSONAdapter added

com.webmethods.portal.bizPolicy.command.task.webservice.UpdateTaskAttachmentWS$UpdateTask AttachmentCommandBean Method 'protected boolean excludePropertyDescriptor(java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.task.webservice.UpdateTaskAttachmentWS$UpdateTask AttachmentCommandBean Method 'public void setAttachmentID(java.lang.String)' has been added

com.webmethods.portal.event.dir.IDirPrincipalDeleteEvent Method 'public com.webmethods.portal.service.meta2.thing.IThingID getGetDirectoryServiceThingID()' has been added to an interface

com.webmethods.portal.event.dir.IDirPrincipalDeleteEvent Method 'public com.webmethods.portal.system.IURI getDirectoryURI()' has been added to an interface

com.webmethods.portal.event.dir.IDirPrincipalDeleteEvent Method 'public java.lang.String getEmail()' has been added to an interface

com.webmethods.portal.event.dir.IDirPrincipalDeleteEvent Method 'public java.lang.String

getPrincipalDN()' has been added to an interface

com.webmethods.portal.event.dir.IDirPrincipalModifyEvent Method 'public java.lang.Object getPropertyOldValue()' has been added to an interface

com.webmethods.portal.event.dir.impl.DirPrincipalDeleteEvent Method 'public DirPrincipalDeleteEvent(com.webmethods.portal.service.dir.IDirPrincipal, com.webmethods.portal.service.dir.IDirPrincipalList, com.webmethods.portal.service.dir.IDirPrincipalList, com.webmethods.portal.service.meta2.thing.IThingID)' has been added

com.webmethods.portal.event.dir.impl.DirPrincipalDeleteEvent Method 'public com.webmethods.portal.service.meta2.thing.IThingID getGetDirectoryServiceThingID()' has been added

com.webmethods.portal.event.dir.impl.DirPrincipalDeleteEvent Method 'public com.webmethods.portal.system.IURI getDirectoryURI()' has been added

com.webmethods.portal.event.dir.impl.DirPrincipalDeleteEvent Method 'public com.webmethods.portal.system.IURI getPrincipalURI()' has been added

com.webmethods.portal.event.dir.impl.DirPrincipalDeleteEvent Method 'public java.lang.String getEmail()' has been added

com.webmethods.portal.event.dir.impl.DirPrincipalDeleteEvent Method 'public java.lang.String getPrincipalDN()' has been added

com.webmethods.portal.event.dir.impl.DirPrincipalModifyEvent Method 'public DirPrincipalModifyEvent(com.webmethods.portal.system.IURI, com.webmethods.portal.service.meta2.thing.IThingID, java.lang.String, java.lang.Object, java.lang.Object, com.webmethods.portal.service.meta2.thing.IThingID)' has been added

com.webmethods.portal.event.dir.impl.DirPrincipalModifyEvent Method 'public DirPrincipalModifyEvent(com.webmethods.portal.system.IURI, java.lang.String, java.lang.Object, java.lang.Object, com.webmethods.portal.service.meta2.thing.IThingID)' has been added

com.webmethods.portal.event.dir.impl.DirPrincipalModifyEvent Method 'public java.lang.Object getPropertyOldValue()' has been added

com.webmethods.portal.event.system.IDistributedConfigChangedEvent Class com.webmethods.portal.event.system.IDistributedConfigChangedEvent added

com.webmethods.portal.event.system.IDistributedConfigChangedEvent$IListener Class com.webmethods.portal.event.system.IDistributedConfigChangedEvent$IListener added

com.webmethods.portal.event.system.IDistributedConfigChangedEvent$ISynchronousListener Class com.webmethods.portal.event.system.IDistributedConfigChangedEvent$ISynchronousListener added

com.webmethods.portal.event.system.IDistributedConfigChangedEvent$Listeners Class com.webmethods.portal.event.system.IDistributedConfigChangedEvent$Listeners added

com.webmethods.portal.event.system.IDistributedConfigChangedEvent$SynchronousListeners Class com.webmethods.portal.event.system.IDistributedConfigChangedEvent$SynchronousListeners added

com.webmethods.portal.event.system.impl.DistributedConfigChangedEvent Class
com.webmethods.portal.event.system.impl.DistributedConfigChangedEvent added

com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler Class
com.webmethods.portal.framework.dispatch.handlers.directory.ExportUserAttributesHandler added

com.webmethods.portal.framework.session.handlers.LoginScript Method 'protected void
bindSystemPolicy(com.webmethods.portal.bizPolicy.biz.system.ISystemPolicy)' has been added

com.webmethods.portal.framework.session.handlers.Validate Method 'protected void
bindJMSPhaseProvider(com.webmethods.portal.system.IComponent)' has been added

com.webmethods.portal.framework.session.impl.SessionManager Method 'protected void
bindAuthManager(com.webmethods.portal.framework.IAuthManager)' has been added

com.webmethods.portal.jms.db.impl.db2.PurgeEvents Method 'protected java.lang.String
getDeleteEventsQuery()' has been added

com.webmethods.portal.jms.um.UmJMSConnProvider Method 'protected void
registerJMSObjects(org.w3c.dom.Element)' has been added

com.webmethods.portal.mech.dir.IDirServiceMechanics Method 'public void
fireDeletePrincipalEvent(com.webmethods.portal.service.dir.IDirPrincipal,
com.webmethods.portal.service.dir.IDirPrincipalList,
com.webmethods.portal.service.dir.IDirPrincipalList)' has been added to an interface

com.webmethods.portal.mech.dir.IPrincipalAttributeMechanics Method 'public void
fireModifyPrincipalEvent(com.webmethods.portal.service.meta2.thing.IThingID,
com.webmethods.portal.system.IURI, com.webmethods.portal.service.meta2.thing.IThingID,
java.lang.String, java.lang.Object, java.lang.Object)' has been added to an interface

com.webmethods.portal.mech.dir.impl.DirServiceMechanics Method 'protected boolean
isUserPrivacyEnabled()' has been added

com.webmethods.portal.mech.dir.impl.DirServiceMechanics Method 'public void
fireDeletePrincipalEvent(com.webmethods.portal.service.dir.IDirPrincipal,
com.webmethods.portal.service.dir.IDirPrincipalList,
com.webmethods.portal.service.dir.IDirPrincipalList)' has been added

com.webmethods.portal.mech.dir.impl.PrincipalAttributeMechanics Method 'public void
fireModifyPrincipalEvent(com.webmethods.portal.service.meta2.thing.IThingID,
com.webmethods.portal.system.IURI, com.webmethods.portal.service.meta2.thing.IThingID,
java.lang.String, java.lang.Object, java.lang.Object)' has been added

com.webmethods.portal.mech.rules.impl.TEELContext Class
com.webmethods.portal.mech.rules.impl.TEELContext added

com.webmethods.portal.mech.rules.impl.TEExpressionResolver Class
com.webmethods.portal.mech.rules.impl.TEExpressionResolver added

com.webmethods.portal.mech.schedule.impl.ScheduleMechanicsIS Class
com.webmethods.portal.mech.schedule.impl.ScheduleMechanicsIS added

com.webmethods.portal.mech.task.impl.TaskChangeHandlerIS Class
com.webmethods.portal.mech.task.impl.TaskChangeHandlerIS added

com.webmethods.portal.mech.task.impl.TaskContextHelper Class
com.webmethods.portal.mech.task.impl.TaskContextHelper added

com.webmethods.portal.mech.task.impl.TaskDataHelper Method 'public java.lang.Object[] resolveTaskFields(com.webmethods.portal.service.task.ITask, com.webmethods.portal.service.task.ITaskData, java.lang.String[])' has been added

com.webmethods.portal.mech.task.impl.TaskMechanics Method 'protected void bindMechanicsManager(com.webmethods.portal.mech.IMechanicsManager)' has been added

com.webmethods.portal.mech.task.impl.TaskMechanicsIS Class
com.webmethods.portal.mech.task.impl.TaskMechanicsIS added

com.webmethods.portal.mech.task.impl.TaskRuleContext Method 'public TaskRuleContext(com.webmethods.caf.rules.IRuleContext, java.util.Map)' has been added

com.webmethods.portal.mech.task.impl.TaskRuleContext Method 'public java.util.Map getContextMap()' has been added

com.webmethods.portal.mech.task.impl.TaskRuleContext Method 'public void setContextMap(java.util.Map)' has been added

com.webmethods.portal.service.access.IAclManager Method 'public void setResourceType(java.lang.String)' has been added to an interface

com.webmethods.portal.service.access.IAclManager Method 'public void setUserID(java.lang.String)' has been added to an interface

com.webmethods.portal.service.cache.ICacheManager Method 'public void configureCache(java.lang.String, java.util.Map)' has been added to an interface

com.webmethods.portal.service.cache.impl.CacheManager Method 'protected java.util.Collection getRegistryBasedComponentCollection()' has been added

com.webmethods.portal.service.cache.impl.CacheManager Method 'protected void configureCacheFromRegisrty(java.lang.String)' has been added

com.webmethods.portal.service.cache.impl.CacheManager Method 'public void configureCache(java.lang.String, java.util.Map)' has been added

com.webmethods.portal.service.dir.IDirCache Method 'public void clearQueryCache()' has been added to an interface

com.webmethods.portal.service.dir.IDirServiceThing Class
com.webmethods.portal.service.dir.IDirServiceThing added

com.webmethods.portal.service.dir.IUserPrivacyService Class
com.webmethods.portal.service.dir.IUserPrivacyService added

com.webmethods.portal.service.dir.IUserPrivacyService$NotificationType Class
com.webmethods.portal.service.dir.IUserPrivacyService$NotificationType added

com.webmethods.portal.service.dir.impl.DirCache Method 'public void clearQueryCache()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'protected com.webmethods.portal.service.dir.IDirPrincipal getCurrentDirPrincipal()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'protected com.webmethods.portal.service.meta2.thing.IThingID getCurrentPrincipalThingID()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'protected long getCreatedTime()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'protected long getLastModifiedTime()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'protected void deletePrincipal()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'public boolean canDeleteUser()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'public boolean isEditingSelf(com.webmethods.portal.bizPolicy.IContext)' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'public boolean isMemberOfAdminRole()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'public boolean isSysAdminPrincipal()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'public boolean isUserPrivacyEnabled()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean Method 'public void DeleteUser()' has been added

com.webmethods.portal.service.portlet.impl.PortletProvider Method 'protected void bindThingIDService(com.webmethods.portal.service.meta2.IThingIDService)' has been added

com.webmethods.portal.service.portlet.impl.PortletProvider Method 'protected void bindXTypeService(com.webmethods.portal.service.meta2.IXTypeService)' has been added

com.webmethods.portal.service.scheduler.Scheduler Method 'protected void bindClusterLockingService(com.webmethods.portal.system.lock.IClusterLockingService)' has been added

com.webmethods.portal.service.scheduler.Scheduler Method 'protected void unbindClusterLockingService(com.webmethods.portal.system.lock.IClusterLockingService)' has been added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$FieldValueConverter Method 'public com.webmethods.portal.service.meta2.thing.IThingID getThingIDHelper(com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$FieldValueConverter Method 'public com.webmethods.portal.system.IURI getURIHelper(java.lang.String)' has been added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$FieldValueConverter Method 'public com.webmethods.portal.system.IURI lookupPrincipalHelper(java.lang.Object)' has been added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$FieldValueConverter Method 'public com.webmethods.portal.system.IURI lookupPrincipalHelper(java.lang.Object, int)' has been added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$FieldValueConverter Method 'public int getIntPriorityHelper(java.lang.String)' has been added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$FieldValueConverter Method 'public int getIntStatusHelper(java.lang.String)' has been added

com.webmethods.portal.service.task.TaskSearchQuery Method 'public boolean matches(java.util.Map, com.webmethods.caf.rules.IBindingExpressionEvaluator)' has been added

com.webmethods.portal.service.task.TaskSearchQueryTerm Method 'public boolean matches(java.util.Map, com.webmethods.caf.rules.IBindingExpressionEvaluator)' has been added

com.webmethods.portal.service.task.TaskSearchQueryTerm Method 'public java.util.List getFieldExpressionsString(java.util.Map, com.webmethods.caf.rules.IBindingExpressionEvaluator)' has been added

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory Class com.webmethods.portal.service.task.impl.TaskClassLoaderFactory added

com.webmethods.portal.service.task.impl.TaskClassLoaderFactory$ITaskClassLoader Class com.webmethods.portal.service.task.impl.TaskClassLoaderFactory$ITaskClassLoader added

com.webmethods.portal.service.task.impl.TaskDBIndexManagerHelper Class com.webmethods.portal.service.task.impl.TaskDBIndexManagerHelper added

com.webmethods.portal.service.task.impl.TaskIndexTableViewHelper Class com.webmethods.portal.service.task.impl.TaskIndexTableViewHelper added

com.webmethods.portal.service.task.impl.TaskService Method 'public void flushTaskInfoCache(com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.service.task.impl.TaskServiceIS Class com.webmethods.portal.service.task.impl.TaskServiceIS added

com.webmethods.portal.service.task.impl.TaskSystem Method 'protected com.webmethods.portal.system.IComponentData createComponentData(com.webmethods.portal.system.IInitializableComponentData)' has been added

com.webmethods.portal.service.task.impl.TaskSystem Method 'protected java.util.Collection getThingBasedComponentCollection()' has been added

com.webmethods.portal.system.PortalSystem Method 'public java.lang.Boolean isLibraryMode()' has been added

com.webmethods.portal.webservices.SOAPMonitorConstants Class

com.webmethods.portal.webservices.SOAPMonitorConstants added

com.webmethods.portal.webservices.SOAPMonitorData Method 'public SOAPMonitorData(java.lang.Integer, java.lang.Long, java.lang.String, java.lang.String, java.lang.String)' has been added

com.webmethods.portal.webservices.SOAPMonitorData Method 'public java.lang.String getContentType()' has been added

com.webmethods.portal.webservices.SOAPMonitorData Method 'public java.lang.String getMessageText()' has been added

com.webmethods.portal.webservices.SOAPMonitorData Method 'public void setContentType(java.lang.String)' has been added

com.webmethods.portal.webservices.SOAPMonitorData Method 'public void setMessageText(java.lang.String)' has been added

com.webmethods.rtl.locator.impl.DBConfigLocator Method 'protected void fireConfigChangedEvent(java.lang.String)' has been added

com.webmethods.rtl.util.FileUtil Method 'public java.lang.String getRealLocationAtIS(java.lang.String)' has been added

com.webmethods.rtl.util.FileUtil Method 'public java.lang.String getRealLocationAtISatTaskApp(java.lang.String, java.lang.String)' has been added

Removed API	Replacement, if any
com.webmethods.portal.bizPolicy.biz.impl.BizPolicy Method 'public java.lang.Class[] getExtraWsdlSchemaClasses(com.webmethods.portal.bizPolicy.IContext)' has been removed	
com.webmethods.portal.bizPolicy.biz.impl.BizPolicy Method 'public org.apache.axis.description.ServiceDesc initializeServiceDesc(com.webmethods.portal.bizPolicy.IContext, org.apache.axis.description.ServiceDesc)' has been removed	
com.webmethods.portal.bizPolicy.biz.impl.BizPolicy Method 'public org.apache.axis.handlers.soap.SOAPService initializeSOAPService(org.apache.axis.handlers.soap.SOAPService)' has been removed	
com.webmethods.portal.bizPolicy.biz.impl.BizPolicy Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed	
com.webmethods.portal.bizPolicy.command.access.GetAclView Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed	
com.webmethods.portal.bizPolicy.command.access.ListSecurityRealmObjects Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext,	

javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.alias.CreateAlias Method 'public void
initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext,
javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.dir.GetTypedAttributes Method 'public java.lang.Class[]
getExtraWsdlSchemaClasses(com.webmethods.portal.bizPolicy.IContext)' has been removed

com.webmethods.portal.bizPolicy.command.dir.GetTypedAttributes Method 'public void
initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext,
javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.impl.Command Method 'protected
java.beans.PropertyDescriptor[] getClassPropertyDescriptors(java.lang.Class)' has been removed

com.webmethods.portal.bizPolicy.command.impl.Command Method 'protected void
registerWebServiceMarshallingFactories(java.lang.Class, javax.xml.rpc.encoding.TypeMapping)' has
been removed

com.webmethods.portal.bizPolicy.command.impl.Command Method 'public java.lang.Class[]
getExtraWsdlSchemaClasses(com.webmethods.portal.bizPolicy.IContext)' has been removed

com.webmethods.portal.bizPolicy.command.impl.Command Method 'public
org.apache.axis.description.ServiceDesc
initializeServiceDesc(com.webmethods.portal.bizPolicy.IContext,
org.apache.axis.description.ServiceDesc)' has been removed

com.webmethods.portal.bizPolicy.command.impl.Command Method 'public
org.apache.axis.handlers.soap.SOAPService
initializeSOAPService(org.apache.axis.handlers.soap.SOAPService)' has been removed

com.webmethods.portal.bizPolicy.command.impl.Command Method 'public void
initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext,
javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.impl.WebServiceHelper Class
com.webmethods.portal.bizPolicy.command.impl.WebServiceHelper removed

com.webmethods.portal.bizPolicy.command.meta.GetSelectedList Method 'public void
initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext,
javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.meta.ListChildrenFiltered Method 'public void
initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext,
javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.meta.ListContainers Method 'public void
initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext,
javax.xml.rpc.encoding.TypeMapping)' has been removed

com.webmethods.portal.bizPolicy.command.meta.ListNotes Method 'public void

initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext,
javax.xml.rpc.encoding.TypeMapping)' has been removed

 com.webmethods.portal.bizPolicy.command.meta.schedule.ListSchedulesCommand Method 'public
void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext,
javax.xml.rpc.encoding.TypeMapping)' has been removed

 com.webmethods.portal.bizPolicy.command.page.ModifyPage2 Method 'public void
initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext,
javax.xml.rpc.encoding.TypeMapping)' has been removed

 com.webmethods.portal.bizPolicy.command.socialkeyword.GetKeyword Method 'public void
initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext,
javax.xml.rpc.encoding.TypeMapping)' has been removed

 com.webmethods.portal.bizPolicy.command.socialkeyword.ListKeywords Method 'public void
initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext,
javax.xml.rpc.encoding.TypeMapping)' has been removed

 com.webmethods.portal.bizPolicy.command.sql.ListDataSources Method 'public java.lang.Class[]
getExtraWsdlSchemaClasses(com.webmethods.portal.bizPolicy.IContext)' has been removed

 com.webmethods.portal.bizPolicy.command.sql.ListDataSources Method 'public void
initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext,
javax.xml.rpc.encoding.TypeMapping)' has been removed

 com.webmethods.portal.bizPolicy.command.system.ImportFiles Class
com.webmethods.portal.bizPolicy.command.system.ImportFiles removed

 com.webmethods.portal.bizPolicy.command.system.ImportFilesBean Class
com.webmethods.portal.bizPolicy.command.system.ImportFilesBean removed

 com.webmethods.portal.bizPolicy.command.system.Ping Method 'public java.lang.Class[]
getExtraWsdlSchemaClasses(com.webmethods.portal.bizPolicy.IContext)' has been removed

 com.webmethods.portal.bizPolicy.command.system.Ping Method 'public void
initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext,
javax.xml.rpc.encoding.TypeMapping)' has been removed

 com.webmethods.portal.bizPolicy.command.system.RuntimeTimeStatus Method 'public
java.lang.Class[] getExtraWsdlSchemaClasses(com.webmethods.portal.bizPolicy.IContext)' has been
removed

 com.webmethods.portal.bizPolicy.command.system.RuntimeTimeStatus Method 'public void
initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext,
javax.xml.rpc.encoding.TypeMapping)' has been removed

 com.webmethods.portal.bizPolicy.command.task.BaseTaskCommand Method 'protected
java.beans.PropertyDescriptor[] getClassPropertyDescriptors(java.lang.Class)' has been removed

 com.webmethods.portal.bizPolicy.command.task.GetTaskAudit Method 'public void
initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext,

javax.xml.rpc.encoding.TypeMapping)' has been removed

 com.webmethods.portal.bizPolicy.command.task.GetTaskAuditPaginated Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

 com.webmethods.portal.bizPolicy.command.version.ListVersionsCommand Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

 com.webmethods.portal.bizPolicy.command.webspace.ListWebSpaces Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

 com.webmethods.portal.bizPolicy.impl.ContextProvider Method 'protected com.webmethods.portal.bizPolicy.IContext getContextBySessionId(java.lang.String)' has been removed

 com.webmethods.portal.framework.dispatch.handlers.webservices.GetWSDL Class com.webmethods.portal.framework.dispatch.handlers.webservices.GetWSDL removed

 com.webmethods.portal.framework.propertyeditor.command.ListPropertyEditors Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

 com.webmethods.portal.webservices.IWebService Method 'public java.lang.Class[] getExtraWsdlSchemaClasses(com.webmethods.portal.bizPolicy.IContext)' has been removed

 com.webmethods.portal.webservices.IWebService Method 'public org.apache.axis.description.ServiceDesc initializeServiceDesc(com.webmethods.portal.bizPolicy.IContext, org.apache.axis.description.ServiceDesc)' has been removed

 com.webmethods.portal.webservices.IWebService Method 'public org.apache.axis.handlers.soap.SOAPService initializeSOAPService(org.apache.axis.handlers.soap.SOAPService)' has been removed

 com.webmethods.portal.webservices.IWebService Method 'public void initializeSOAPMappingRegistry(com.webmethods.portal.bizPolicy.IContext, javax.xml.rpc.encoding.TypeMapping)' has been removed

 com.webmethods.portal.webservices.SOAPMonitorData Method 'public java.lang.String getSoap()' has been removed

 com.webmethods.portal.webservices.SOAPMonitorData Method 'public void setSoap(java.lang.String)' has been removed

 com.webmethods.portal.webservices.configuration.MwsEngineConfigurationFactoryServlet Class com.webmethods.portal.webservices.configuration.MwsEngineConfigurationFactoryServlet removed

 com.webmethods.portal.webservices.configuration.MwsFileProvider Class com.webmethods.portal.webservices.configuration.MwsFileProvider removed

 com.webmethods.portal.webservices.configuration.UpgradeAxisConfiguration Class

com.webmethods.portal.webservices.configuration.UpgradeAxisConfiguration removed

com.webmethods.portal.webservices.encoding.AliasValueSerializer Class
com.webmethods.portal.webservices.encoding.AliasValueSerializer removed

com.webmethods.portal.webservices.encoding.AliasValueSerializerFactory Class
com.webmethods.portal.webservices.encoding.AliasValueSerializerFactory removed

com.webmethods.portal.webservices.encoding.BeanPropertiesTypeDesc Class
com.webmethods.portal.webservices.encoding.BeanPropertiesTypeDesc removed

com.webmethods.portal.webservices.encoding.CertificateSerializer Class
com.webmethods.portal.webservices.encoding.CertificateSerializer removed

com.webmethods.portal.webservices.encoding.CertificateSerializerFactory Class
com.webmethods.portal.webservices.encoding.CertificateSerializerFactory removed

com.webmethods.portal.webservices.encoding.CharacterSerializer Class
com.webmethods.portal.webservices.encoding.CharacterSerializer removed

com.webmethods.portal.webservices.encoding.CharacterSerializerFactory Class
com.webmethods.portal.webservices.encoding.CharacterSerializerFactory removed

com.webmethods.portal.webservices.encoding.ConnectionInfoSerializer Class
com.webmethods.portal.webservices.encoding.ConnectionInfoSerializer removed

com.webmethods.portal.webservices.encoding.ConnectionInfoSerializerFactory Class
com.webmethods.portal.webservices.encoding.ConnectionInfoSerializerFactory removed

com.webmethods.portal.webservices.encoding.DifferenceMapSerializer Class
com.webmethods.portal.webservices.encoding.DifferenceMapSerializer removed

com.webmethods.portal.webservices.encoding.DifferenceMapSerializerFactory Class
com.webmethods.portal.webservices.encoding.DifferenceMapSerializerFactory removed

com.webmethods.portal.webservices.encoding.DirServiceSerializer Class
com.webmethods.portal.webservices.encoding.DirServiceSerializer removed

com.webmethods.portal.webservices.encoding.DirServiceSerializerFactory Class
com.webmethods.portal.webservices.encoding.DirServiceSerializerFactory removed

com.webmethods.portal.webservices.encoding.IDataDeserializer Class
com.webmethods.portal.webservices.encoding.IDataDeserializer removed

com.webmethods.portal.webservices.encoding.IDataDeserializerFactory Class
com.webmethods.portal.webservices.encoding.IDataDeserializerFactory removed

com.webmethods.portal.webservices.encoding.IOutOnly Class
com.webmethods.portal.webservices.encoding.IOutOnly removed

com.webmethods.portal.webservices.encoding.ISoapComplexTypeBean Class
com.webmethods.portal.webservices.encoding.ISoapComplexTypeBean removed

com.webmethods.portal.webservices.encoding.InterfaceAsBeanSerializer Class

com.webmethods.portal.webservices.encoding.InterfaceAsBeanSerializer removed

com.webmethods.portal.webservices.encoding.InterfaceAsBeanSerializerFactory Class
com.webmethods.portal.webservices.encoding.InterfaceAsBeanSerializerFactory removed

com.webmethods.portal.webservices.encoding.ListViewSerializer Class
com.webmethods.portal.webservices.encoding.ListViewSerializer removed

com.webmethods.portal.webservices.encoding.ListViewSerializerFactory Class
com.webmethods.portal.webservices.encoding.ListViewSerializerFactory removed

com.webmethods.portal.webservices.encoding.LocaleDeserializer Class
com.webmethods.portal.webservices.encoding.LocaleDeserializer removed

com.webmethods.portal.webservices.encoding.LocaleDeserializerFactory Class
com.webmethods.portal.webservices.encoding.LocaleDeserializerFactory removed

com.webmethods.portal.webservices.encoding.LocaleSerializer Class
com.webmethods.portal.webservices.encoding.LocaleSerializer removed

com.webmethods.portal.webservices.encoding.LocaleSerializerFactory Class
com.webmethods.portal.webservices.encoding.LocaleSerializerFactory removed

com.webmethods.portal.webservices.encoding.PageDataDeserializer Class
com.webmethods.portal.webservices.encoding.PageDataDeserializer removed

com.webmethods.portal.webservices.encoding.PageDataDeserializerFactory Class
com.webmethods.portal.webservices.encoding.PageDataDeserializerFactory removed

com.webmethods.portal.webservices.encoding.PageDataSerializer Class
com.webmethods.portal.webservices.encoding.PageDataSerializer removed

com.webmethods.portal.webservices.encoding.PageDataSerializerFactory Class
com.webmethods.portal.webservices.encoding.PageDataSerializerFactory removed

com.webmethods.portal.webservices.encoding.PagingBeanDeserializer Class
com.webmethods.portal.webservices.encoding.PagingBeanDeserializer removed

com.webmethods.portal.webservices.encoding.PagingBeanDeserializerFactory Class
com.webmethods.portal.webservices.encoding.PagingBeanDeserializerFactory removed

com.webmethods.portal.webservices.encoding.PagingBeanSerializer Class
com.webmethods.portal.webservices.encoding.PagingBeanSerializer removed

com.webmethods.portal.webservices.encoding.PagingBeanSerializerFactory Class
com.webmethods.portal.webservices.encoding.PagingBeanSerializerFactory removed

com.webmethods.portal.webservices.encoding.PortalFileBeanDeserializer Class
com.webmethods.portal.webservices.encoding.PortalFileBeanDeserializer removed

com.webmethods.portal.webservices.encoding.PortalFileBeanDeserializerFactory Class
com.webmethods.portal.webservices.encoding.PortalFileBeanDeserializerFactory removed

com.webmethods.portal.webservices.encoding.PortalFileBeanSerializer Class

com.webmethods.portal.webservices.encoding.PortalFileBeanSerializer removed

 com.webmethods.portal.webservices.encoding.PortalFileBeanSerializerFactory Class
com.webmethods.portal.webservices.encoding.PortalFileBeanSerializerFactory removed

 com.webmethods.portal.webservices.encoding.RightSetDeserializer Class
com.webmethods.portal.webservices.encoding.RightSetDeserializer removed

 com.webmethods.portal.webservices.encoding.RightSetDeserializerFactory Class
com.webmethods.portal.webservices.encoding.RightSetDeserializerFactory removed

 com.webmethods.portal.webservices.encoding.RightSetSerializer Class
com.webmethods.portal.webservices.encoding.RightSetSerializer removed

 com.webmethods.portal.webservices.encoding.RightSetSerializerFactory Class
com.webmethods.portal.webservices.encoding.RightSetSerializerFactory removed

 com.webmethods.portal.webservices.encoding.SelectedListViewSerializer Class
com.webmethods.portal.webservices.encoding.SelectedListViewSerializer removed

 com.webmethods.portal.webservices.encoding.SelectedListViewSerializerFactory Class
com.webmethods.portal.webservices.encoding.SelectedListViewSerializerFactory removed

 com.webmethods.portal.webservices.encoding.ThingIDListSerializer Class
com.webmethods.portal.webservices.encoding.ThingIDListSerializer removed

 com.webmethods.portal.webservices.encoding.ThingIDListSerializerFactory Class
com.webmethods.portal.webservices.encoding.ThingIDListSerializerFactory removed

 com.webmethods.portal.webservices.encoding.ThingNameAtomSerializer Class
com.webmethods.portal.webservices.encoding.ThingNameAtomSerializer removed

 com.webmethods.portal.webservices.encoding.ThingNameAtomSerializerFactory Class
com.webmethods.portal.webservices.encoding.ThingNameAtomSerializerFactory removed

 com.webmethods.portal.webservices.encoding.URIDeserializer Class
com.webmethods.portal.webservices.encoding.URIDeserializer removed

 com.webmethods.portal.webservices.encoding.URIDeserializerFactory Class
com.webmethods.portal.webservices.encoding.URIDeserializerFactory removed

 com.webmethods.portal.webservices.encoding.URISerializer Class
com.webmethods.portal.webservices.encoding.URISerializer removed

 com.webmethods.portal.webservices.encoding.URISerializerFactory Class
com.webmethods.portal.webservices.encoding.URISerializerFactory removed

 com.webmethods.portal.webservices.encoding.ViewProperty Class
com.webmethods.portal.webservices.encoding.ViewProperty removed

 com.webmethods.portal.webservices.encoding.ViewSerializer Class
com.webmethods.portal.webservices.encoding.ViewSerializer removed

 com.webmethods.portal.webservices.encoding.ViewSerializerFactory Class

com.webmethods.portal.webservices.encoding.ViewSerializerFactory removed

com.webmethods.portal.webservices.handlers.CommandHandler Class
com.webmethods.portal.webservices.handlers.CommandHandler removed

com.webmethods.portal.webservices.handlers.CommandProvider Class
com.webmethods.portal.webservices.handlers.CommandProvider removed

com.webmethods.portal.webservices.handlers.SOAPMonitorHandler Class
com.webmethods.portal.webservices.handlers.SOAPMonitorHandler removed

com.webmethods.portal.webservices.servlet.PortalAxisServlet Class
com.webmethods.portal.webservices.servlet.PortalAxisServlet removed

Changed API	Description
com.webmethods.portal.bizPolicy.command.dir.DeletePrincipal In method 'protected void fireEvents(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.mech.dir.IDirServiceMechanics, com.webmethods.portal.system.IURI, com.webmethods.portal.service.meta2.thing.IThingID, com.webmethods.portal.service.meta2.thing.IThingID, com.webmethods.portal.service.dir.IDirPrincipalList, com.webmethods.portal.service.dir.IDirPrincipalList)' the number of arguments has changed	
com.webmethods.portal.bizPolicy.command.dir.ModifyPrincipal In method 'protected void fireEvents(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.mech.dir.IPrincipalAttributeMechanics, com.webmethods.portal.system.IURI, java.lang.String, java.lang.Object, com.webmethods.portal.service.meta2.thing.IThingID)' the number of arguments has changed	
com.webmethods.portal.bizPolicy.command.dir.ModifyPrincipalEx In method 'protected void fireEvents(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.mech.dir.IPrincipalAttributeMechanics, com.webmethods.portal.system.IURI, java.util.Map, com.webmethods.portal.service.meta2.thing.IThingID)' the number of arguments has changed	
com.webmethods.portal.bizPolicy.command.impl.rs.CommandResource In method 'public javax.ws.rs.core.Response invokeCommandFromForm(javax.servlet.http.HttpServletRequest, javax.servlet.http.HttpServletResponse, java.lang.String)' the number of arguments has changed	

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Added API	Description
com.webmethods.portal.bizPolicy.biz.dir.IDirSystemBizPolicy: Method 'public com.webmethods.portal.service.dir.IDirUser authenticateUser(com.webmethods.portal.bizPolicy.IContext, java.lang.String, java.lang.String, boolean)' has been added to an interface	
com.webmethods.portal.framework.IAuthManager: Method 'public com.webmethods.portal.framework.auth.IAuthInfo createAuthInfo()' has been added to an interface	
com.webmethods.portal.service.task.ITaskDistributionService: Method 'public com.webmethods.portal.service.task.ITaskListIterator searchAllTasks(com.webmethods.portal.service.task.TaskSearchQuery, java.lang.Boolean)' has been added to an interface	
com.webmethods.portal.service.task.ITaskLockingService: Method 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long)' has been added to an interface	
com.webmethods.portal.service.task.ITaskLockingService: Method 'public com.webmethods.portal.system.lock.IClusterLock acquireLock(com.webmethods.portal.system.IURI, com.webmethods.portal.system.IURI, long, long, boolean)' has been added to an interface	
com.webmethods.portal.service.task.ITaskLockingService: Method 'public com.webmethods.portal.system.lock.IClusterLock getLock(com.webmethods.portal.system.IURI)' has been added to an interface	
com.webmethods.portal.system.IURIResolver: Method 'public com.webmethods.portal.system.IURI acquireURI(java.lang.String, boolean)' has been added to an interface	
com.webmethods.portal.system.init.IPhaseProvider: Method 'public void preInit(java.lang.String)' has been added to an interface	
com.webmethods.portal.webservices.IWebService: Method 'public java.lang.Class[] getExtraWsdlSchemaClasses(com.webmethods.portal.bizPolicy.IContext)' has been added to an interface	

Removed API	Replacement, if any
com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended: Removed com.webmethods.caf.faces.data.task.ITaskConstants from the set of implemented interfaces	
com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended: Removed com.webmethods.caf.faces.data.task.ITaskSearchQuery from the set of implemented interfaces	
com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended: Removed com.webmethods.caf.faces.data.task.ITaskSearchQueryBase from the set of implemented interfaces	
com.webmethods.caf.faces.data.task.impl.QueryAggregationInfo: Removed com.webmethods.caf.faces.data.task.IQueryAggregationInfo from the set of implemented interfaces	
com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider$HpstraInboxSearchQuery: Removed com.webmethods.caf.faces.data.task.ITaskConstants from the set of implemented interfaces	
com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider$HpstraInboxSearchQuery: Removed com.webmethods.caf.faces.data.task.ITaskSearchQuery from the set of implemented interfaces	
com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider$HpstraInboxSearchQuery: Removed com.webmethods.caf.faces.data.task.ITaskSearchQueryBase from the set of implemented interfaces	
com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider$HpstraInboxSearchQuery: Removed com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended from the set of implemented interfaces	
com.webmethods.caf.faces.data.task.impl.TaskInboxIndexedSearchContentProvider$InboxSearchQuery: Removed com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended from the set of implemented interfaces	
com.webmethods.caf.faces.data.task.impl.TaskInboxSearchContentProvider$InboxSearchQuery: Removed com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended from the set of implemented interfaces	
com.webmethods.caf.faces.data.task.impl.TaskIndexedSearchContentProvider$TaskData: Removed com.webmethods.caf.faces.data.task.ITaskData from the set of implemented interfaces	
com.webmethods.caf.faces.data.task.impl.TaskSearchQuery: Removed com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended from the set of implemented interfaces	
com.webmethods.caf.faces.data.task.impl.TaskSearchQueryExtended: Removed com.webmethods.caf.faces.data.task.ITaskConstants from the set of implemented interfaces	

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryExtended: Removed
com.webmethods.caf.faces.data.task.ITaskSearchQuery from the set of implemented interfaces

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryExtended: Removed
com.webmethods.caf.faces.data.task.ITaskSearchQueryBase from the set of implemented interfaces

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryExtended: Removed
com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended from the set of implemented
interfaces

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryV2: Removed
com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended from the set of implemented
interfaces

com.webmethods.portal.mech.task.impl.TaskQuery: Removed
com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended from the set of implemented
interfaces

com.webmethods.portal.service.sql.core.JNDIDataSourceFactory: Removed
com.webmethods.portal.system.init.IInitializable from the set of implemented interfaces

com.webmethods.portal.socialbpm.charts.SocialBPMSearchQuery: Removed
com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended from the set of implemented
interfaces

com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider$HpstraInboxSearch
Query: Removed com.webmethods.caf.faces.data.task.impl.TaskSearchQuery from the list of
superclasses

com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider$HpstraInboxSearch
Query: Removed com.webmethods.caf.faces.data.task.impl.TaskSearchQueryV2 from the list of
superclasses

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryExtended: Removed
com.webmethods.caf.faces.data.task.impl.TaskSearchQuery from the list of superclasses

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryExtended: Removed
com.webmethods.caf.faces.data.task.impl.TaskSearchQueryV2 from the list of superclasses

com.webmethods.caf.mobile.notify.impl.PushNotification: Removed
com.webmethods.portal.system.impl.BaseComponent from the list of superclasses

com.webmethods.caf.mobile.notify.impl.PushNotification$PushNotificationCommandBean: Removed
com.webmethods.rtl.util.obj.MapPropertyBag from the list of superclasses

com.webmethods.portal.bizPolicy.command.system.RuntimeStatusBean: Removed
com.webmethods.rtl.util.obj.MapPropertyBag from the list of superclasses

com.webmethods.portal.bizPolicy.command.system.RuntimeTimeStatus: Removed com.webmethods.portal.system.impl.BaseComponent from the list of superclasses

com.webmethods.rtl.locator.ClassLocator: Removed com.webmethods.rtl.locator.FileLocator from the list of superclasses

com.webmethods.rtl.util.SystemPaths$UserPathLocator: Removed com.webmethods.rtl.locator.FileLocator from the list of superclasses

com.webmethods.caf.mobile.notify.task.APNSCleanUpThread: Removed field expiredID

com.webmethods.portal.service.portlet.impl.PortletProvider: Removed field portletProviderFactoryServiceReg

com.webmethods.portal.service.task.impl.TaskLockingService: Removed field TASK_LOCK_MAX_TIME

com.webmethods.portal.service.task.impl.TaskLockingService: Removed field TASK_LOCK_MAX_WAIT_TIME

com.webmethods.portal.service.task.impl.TaskLockingService: Removed field dbOffsetLastCalced

com.webmethods.portal.service.task.impl.TaskLockingService: Removed field dbTimeOffsetMs

com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended: Method 'public com.webmethods.caf.faces.data.task.impl.TaskSearchQueryTerm findTerm(java.lang.String, java.lang.String)' has been removed

com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended: Method 'public com.webmethods.caf.faces.data.task.impl.TaskSearchQueryTerm findTerm(java.lang.String)' has been removed

com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended: Method 'public com.webmethods.caf.faces.data.task.IQueryAggregationInfo getQueryAggregationInfo()' has been removed

com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended: Method 'public com.webmethods.caf.faces.data.task.impl.TaskSearchQueryTerm[] getTerms()' has been removed

com.webmethods.caf.mobile.notify.impl.MobileNotificationProvider: Method 'protected java.util.Collection loadConfig(com.webmethods.portal.system.IComponentData)' has been removed

com.webmethods.caf.script.servlet.ScriptServlet: Method 'protected void includeBCScript(java.lang.String, java.util.Locale, java.io.Writer, boolean)' has been removed

com.webmethods.caf.script.servlet.ScriptServlet: Method 'protected void stripBCScript(java.io.Reader, java.io.Writer)' has been removed

com.webmethods.caf.script.util.JavascriptStripper: Method 'protected boolean is_sep_for_bc(int)' has been removed

com.webmethods.caf.script.util.JavascriptStripper: Method 'protected boolean is_unambiguous_sep_for_bc(int)' has been removed

com.webmethods.caf.script.util.JavascriptStripper: Method 'public void stripBCScript(java.io.Reader, java.io.Writer)' has been removed

com.webmethods.caf.script.util.JavascriptStripper: Method 'protected int strip_c_comment_for_bc(java.io.Reader, java.io.Writer)' has been removed

com.webmethods.portal.framework.auth.AuthInfo: Method 'public void copy(com.webmethods.portal.framework.auth.AuthInfo)' has been removed

com.webmethods.portal.framework.presentation.PresentationData: Method 'public com.webmethods.portal.framework.presentation.PresentationData init(java.lang.Object, int, java.util.HashMap)' has been removed

com.webmethods.portal.service.sql.core.JNDIDataSourceFactory: Method 'public void init(com.webmethods.portal.system.IComponentData, java.lang.String)' has been removed

com.webmethods.portal.service.sql.core.JNDIDataSourceFactory: Method 'public void shutdown()' has been removed

com.webmethods.pushNotification.apns.connection.pool.APNSConnectionPool: Method 'public void initialize(com.webmethods.pushNotification.apns.connection.pool.APNSConnectionPoolManager, java.util.Map)' has been removed

com.webmethods.rtl.util.RuntimeUtil: Method 'public javax.servlet.ServletContext getServletContext(java.lang.String)' has been removed

com.webmethods.rtl.util.RuntimeUtil: Method 'public org.eclipse.jetty.webapp.WebAppContext getWebAppContext(java.lang.String)' has been removed

com.webmethods.rtl.util.RuntimeUtil: Method 'public void refreshBundle(org.osgi.framework.Bundle)' has been removed

com.webmethods.rtl.util.RuntimeUtil: Method 'public void refreshRemovalPendingBundles()' has been removed

com.webmethods.rtl.util.RuntimeUtil: Method 'public void startBundle(org.osgi.framework.Bundle)' has been removed

com.webmethods.caf.faces.data.task.AggregationType: Class com.webmethods.caf.faces.data.task.AggregationType removed

com.webmethods.caf.faces.data.task.IQueryAggregationInfo: Class
com.webmethods.caf.faces.data.task.IQueryAggregationInfo removed

com.webmethods.caf.faces.data.task.IndexEngineType: Class
com.webmethods.caf.faces.data.task.IndexEngineType removed

com.webmethods.portal.bizPolicy.command.task.rs.MWSCustomDispatchProvider: Class
com.webmethods.portal.bizPolicy.command.task.rs.MWSCustomDispatchProvider removed

com.webmethods.portal.bizPolicy.command.task.rs.MWSRequestDispatcher: Class
com.webmethods.portal.bizPolicy.command.task.rs.MWSRequestDispatcher removed

com.webmethods.portal.bizPolicy.command.task.rs.RestApplication: Class
com.webmethods.portal.bizPolicy.command.task.rs.RestApplication removed

com.webmethods.portal.bizPolicy.command.task.rs.RestApplication$RestPingInfo: Class
com.webmethods.portal.bizPolicy.command.task.rs.RestApplication$RestPingInfo removed

com.webmethods.portal.bizPolicy.command.task.rs.RestApplication$RestResource: Class
com.webmethods.portal.bizPolicy.command.task.rs.RestApplication$RestResource removed

com.webmethods.portal.framework.presentation.handlers.dcjsp.FlexiblePoolBoy: Class
com.webmethods.portal.framework.presentation.handlers.dcjsp.FlexiblePoolBoy removed

com.webmethods.rtl.locator.BundleLocator: Class com.webmethods.rtl.locator.BundleLocator removed

com.webmethods.rtl.locator.ClusterConfigLocator: Class
com.webmethods.rtl.locator.ClusterConfigLocator removed

com.webmethods.rtl.locator.ConfigLocator: Class com.webmethods.rtl.locator.ConfigLocator removed

com.webmethods.rtl.locator.FileLocator: Class com.webmethods.rtl.locator.FileLocator removed

com.webmethods.rtl.locator.NullLocator: Class com.webmethods.rtl.locator.NullLocator removed

com.webmethods.rtl.locator.StreamLocatorFactory: Class
com.webmethods.rtl.locator.StreamLocatorFactory removed

com.webmethods.rtl.locator.WebResourceLocator: Class
com.webmethods.rtl.locator.WebResourceLocator removed

Release 10.0

Added API	Description

com.webmethods.caf.faces.data.task.impl.TaskInboxIndexedSearchContentProvider$InboxSearchQuery: Added com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended to the set of implemented interfaces

com.webmethods.caf.faces.data.task.impl.TaskInboxSearchContentProvider$InboxSearchQuery: Added com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended to the set of implemented interfaces

com.webmethods.caf.faces.data.task.impl.TaskSearchQuery: Added com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended to the set of implemented interfaces

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryV2: Added com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended to the set of implemented interfaces

com.webmethods.caf.mobile.notify.impl.MobileNotificationProvider: Added com.webmethods.portal.event.modify.IUpdateEvent$ISynchronousListener to the set of implemented interfaces

com.webmethods.caf.mobile.notify.task.NotificationSender: Added java.util.concurrent.Callable to the set of implemented interfaces

com.webmethods.portal.mech.task.impl.TaskQuery: Added com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchAll: Added com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchAllByTagCount: Added com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchAllByTagPaged: Added com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchAllCount: Added com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchAllGroupedCount: Added com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchAllPaged: Added com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxes: Added com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesByTagCount: Added com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesByTagPaged: Added com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesCount: Added com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesGroupedCount: Added com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.service.sql.runtime.base.TaskSearchFromInboxesPaged: Added com.webmethods.portal.service.task.ITaskInfoFieldConverters to the set of implemented interfaces

com.webmethods.portal.socialbpm.charts.SocialBPMSearchQuery: Added com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended to the set of implemented interfaces

com.webmethods.caf.faces.render.html.table.MoveRowDownIconRenderer: Added com.webmethods.caf.faces.render.html.table.MoveRowLinkRenderer to the list of superclasses

com.webmethods.caf.faces.render.html.table.MoveRowDownLinkRenderer: Added com.webmethods.caf.faces.render.html.table.MoveRowLinkRenderer to the list of superclasses

com.webmethods.caf.faces.render.html.table.MoveRowUpIconRenderer: Added com.webmethods.caf.faces.render.html.table.MoveRowLinkRenderer to the list of superclasses

com.webmethods.caf.faces.render.html.table.MoveRowUpLinkRenderer: Added com.webmethods.caf.faces.render.html.table.MoveRowLinkRenderer to the list of superclasses

com.webmethods.portal.bizPolicy.biz.task.impl.TaskDBOHelper: Added com.webmethods.portal.bizPolicy.biz.task.impl.TaskIndexHelper to the list of superclasses

com.webmethods.caf.common.deployer.MwsDeployerConstants: Added public field PROJ_PROP_EXPORT_PAGE_DEPTH

com.webmethods.caf.mobile.notify.IMobileNotificationConstants: Added public field IOS_CERT

com.webmethods.caf.mobile.notify.IMobileNotificationConstants: Added public field IOS_HOST_NAME

com.webmethods.caf.mobile.notify.IMobileNotificationConstants: Added public field IOS_HOST_PORT

com.webmethods.caf.mobile.notify.IMobileNotificationConstants: Added public field IOS_PASSWORD

com.webmethods.caf.mobile.notify.IMobileNotificationConstants: Added public field NOTIFIER_QUEUE_SIZE_THRESHOLD

com.webmethods.caf.mobile.notify.impl.MobileNotifierComponent: Added protected field m_connPoolProvider

com.webmethods.caf.mobile.notify.util.MobileNotifierUtil: Added public field IOS_JASON_PAYLOAD_TEMPLATE

com.webmethods.portal.bizPolicy.biz.task.ITaskDefinitionConstants: Added public field PROPERTY_HPSTRA_INDEXTABLEDIS

com.webmethods.portal.bizPolicy.biz.task.ITaskDefinitionConstants: Added public field

PROPERTY_HPSTRA_INDEX_JOB_STATUS

com.webmethods.portal.bizPolicy.biz.task.ITaskDefinitionConstants: Added public field PROPERTY_ISHPSTRAENABLED

com.webmethods.portal.bizPolicy.command.task.rs.BaseTaskResource: Added public field DEFAULT_JSON_DATE_FORMAT

com.webmethods.portal.service.bcgadget.IBCGadgetConstants: Added public field BC_GADGET_DEF_CONTAINER_NOT_FOUND_ERROR_MSG

com.webmethods.portal.service.dir.impl.DirServicePortletBean: Added public field ATTR_PREFIX_LENGTH

com.webmethods.portal.service.dir.impl.DirServicePortletBean: Added public field EDIT_ATTR_CURRPASSWORD

com.webmethods.portal.service.dir.impl.DirServicePortletBean: Added public field USERNAME

com.webmethods.portal.service.dir.impl.DirServicePortletBean: Added public field exceptionMessage

com.webmethods.portal.service.sql.runtime.base.TaskLockSetNew: Added public field TE_MAX_LAST_ACTIVE

com.webmethods.portal.service.task.impl.TaskDefinitionView: Added protected field m_taskDetailGadgetURIs

com.webmethods.caf.common.ObjectUtil: Method 'public void sortObjectList(java.util.List, java.lang.String, boolean)' has been added

com.webmethods.caf.faces.component.behavior.DragToMoveRowsBehavior: Method 'public boolean isPropagateEvents()' has been added

com.webmethods.caf.faces.component.behavior.DragToMoveRowsBehavior: Method 'public void setPropagateEvents(boolean)' has been added

com.webmethods.caf.faces.component.tree.AsyncTree: Method 'protected com.webmethods.caf.faces.data.ITableContentProvider getContentProvider(boolean)' has been added

com.webmethods.caf.faces.data.task.impl.TaskSearchQuery: Method 'public java.lang.String getSearchEngineType()' has been added

com.webmethods.caf.faces.data.task.impl.TaskSearchQuery: Method 'public void setSearchEngineType(java.lang.String)' has been added

com.webmethods.caf.mobile.notify.impl.MobileNotificationProvider: Method 'public void onSynchronousEvent(com.webmethods.portal.event.modify.IUpdateEvent)' has been added

com.webmethods.caf.mobile.notify.impl.MobileNotifierComponent: Method 'public com.webmethods.caf.mobile.notify.impl.AppleMessagingCloudConnectionDetails getM_iOSConnectionDetails()' has been added

com.webmethods.caf.mobile.notify.impl.MobileNotifierComponent: Method 'public java.util.concurrent.BlockingQueue getMessageQueue()' has been added

com.webmethods.caf.mobile.notify.impl.MobileNotifierComponent: Method 'public java.util.List scheduleCleanUpService(java.util.List)' has been added

com.webmethods.caf.mobile.notify.impl.MobileNotifierComponent: Method 'public void setMessageQueue(java.util.concurrent.BlockingQueue)' has been added

com.webmethods.caf.mobile.notify.impl.MobileNotifierComponent: Method 'public void stopExecutorService()' has been added

com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Method 'public java.lang.String createMessage(com.webmethods.portal.service.task.event.ITaskChangedEvent)' has been added

com.webmethods.caf.mobile.notify.task.Message: Method 'public java.util.List getAndroidSubscriptionList()' has been added

com.webmethods.caf.mobile.notify.task.Message: Method 'public java.util.List getiOSSubscriptionList()' has been added

com.webmethods.caf.mobile.notify.task.Message: Method 'public void setAndroidSubscriptionList(java.util.List)' has been added

com.webmethods.caf.mobile.notify.task.Message: Method 'public void setIOSSubscriptionList(java.util.List)' has been added

com.webmethods.caf.mobile.notify.task.NotificationSender: Method 'public java.util.List call()' has been added

com.webmethods.caf.mobile.notify.task.NotificationSender: Method 'public java.lang.Object call()' has been added

com.webmethods.caf.mobile.notify.task.NotificationSender: Method 'public byte[] convertPayloadtoUTF8Bytes(java.lang.String)' has been added

com.webmethods.caf.mobile.notify.task.NotificationSender: Method 'public byte[] decodeHex(java.lang.String)' has been added

com.webmethods.caf.mobile.notify.task.NotificationSender: Method 'public byte[] formAPNSMessage(byte, byte[], byte[])' has been added

com.webmethods.caf.mobile.notify.util.MobileNotifierUtil: Method 'public java.lang.String generateIOSPayload(java.util.List, java.lang.String, java.lang.String)' has been added

com.webmethods.caf.script.servlet.ScriptServlet: Method 'protected void includeBCScript(java.lang.String, java.util.Locale, java.io.Writer, boolean)' has been added

com.webmethods.caf.script.servlet.ScriptServlet: Method 'protected void stripBCScript(java.io.Reader, java.io.Writer)' has been added

com.webmethods.caf.script.util.JavascriptStripper: Method 'protected boolean is_sep_for_bc(int)' has been added

com.webmethods.caf.script.util.JavascriptStripper: Method 'protected boolean is_unambiguous_sep_for_bc(int)' has been added

com.webmethods.caf.script.util.JavascriptStripper: Method 'public void stripBCScript(java.io.Reader, java.io.Writer)' has been added

com.webmethods.caf.script.util.JavascriptStripper: Method 'protected int strip_c_comment_for_bc(java.io.Reader, java.io.Writer)' has been added

com.webmethods.portal.bizPolicy.biz.task.impl.TaskDBOHelper: Method 'public com.webmethods.portal.service.meta2.dbo.HpstraIndexTable createHpstraIndexTableFromXml(java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.task.rs.TaskResource: Method 'public void convertJSONToJavaObj(java.util.Map, java.lang.Class)' has been added

com.webmethods.portal.framework.presentation.handlers.Nbsp: Method 'public java.lang.Object lookup(java.util.Map, java.lang.String, boolean)' has been added

com.webmethods.portal.service.dir.impl.DirPrincipalListView: Method 'public java.util.Map getExceptions()' has been added

com.webmethods.portal.service.dir.impl.DirPrincipalListView: Method 'public void setExceptions(java.util.Map)' has been added

com.webmethods.portal.service.dir.impl.DirPrincipalProvider: Method 'protected void populateGroupMembership(com.webmethods.portal.service.dir.IDirPrincipal, java.util.Set, java.util.Map)' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean: Method 'protected void EditPrincipalEx()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean: Method 'public void EditUserEx()' has been added

com.webmethods.portal.service.dir.impl.DirServicePortletBean: Method 'public boolean isAuthenticated(java.lang.String, java.lang.String)' has been added

com.webmethods.portal.service.sql.runtime.base.TaskLockSetNew: Method 'protected java.lang.String getConditionalInsertStatement()' has been added

com.webmethods.portal.service.task.impl.TaskDefinitionView: Method 'public com.webmethods.portal.service.meta2.dbo.HpstraIndexTable getHpstraIndexTable()' has been added

com.webmethods.portal.service.task.impl.TaskDefinitionView: Method 'public java.lang.String getTaskDetailGadgetURIs()' has been added

com.webmethods.portal.service.task.impl.TaskDefinitionView: Method 'public boolean isHpstraEnabled()' has been added

com.webmethods.portal.system.cluster.impl.ClusterProvider: Method 'public void reloadClusterServers()' has been added

com.webmethods.portal.webapp.jetty7.MwsSessionManager: Method 'protected void addContextLocale(org.eclipse.jetty.server.session.AbstractSession)' has been added

com.webmethods.rtl.event.DeliveryService: Method 'public boolean isConfigLoaded()' has been added

com.webmethods.rtl.msg.jms.JMSDestination$LiveStatistics$NameComparator: Method 'public int compare(com.webmethods.rtl.msg.jms.JMSDestination$LiveStatistics, com.webmethods.rtl.msg.jms.JMSDestination$LiveStatistics)' has been added

com.webmethods.rtl.msg.jms.JMSProvider: Method 'protected boolean isMaintenanceMode()' has been added

com.webmethods.rtl.script.nbsp.NBSPage: Method 'public java.lang.Object get(java.lang.String, boolean)' has been added

com.webmethods.rtl.script.nbsp.NBSPage: Method 'public java.lang.String getString(java.lang.String, java.lang.String, boolean)' has been added

com.webmethods.rtl.script.nbsp.PooledNBSPage: Method 'public java.lang.Object get(java.lang.String, boolean)' has been added

com.webmethods.rtl.script.nbsp.PooledNBSPage: Method 'public java.lang.Object get(java.lang.String, java.lang.Class, java.lang.Object, boolean)' has been added

com.webmethods.rtl.script.nbsp.PooledNBSPage: Method 'public java.lang.String getString(java.lang.String, java.lang.String, boolean)' has been added

com.webmethods.caf.mobile.notify.IMobileNotifierComponent: Method 'public com.webmethods.caf.mobile.notify.impl.AppleMessagingCloudConnectionDetails getM_iOSConnectionDetails()' has been added to an interface

com.webmethods.caf.mobile.notify.IMobileNotifierComponent: Method 'public java.util.concurrent.BlockingQueue getMessageQueue()' has been added to an interface

com.webmethods.caf.mobile.notify.IMobileNotifierComponent: Method 'public java.util.List scheduleCleanUpService(java.util.List)' has been added to an interface

com.webmethods.caf.mobile.notify.IMobileNotifierComponent: Method 'public void setMessageQueue(java.util.concurrent.BlockingQueue)' has been added to an interface

com.webmethods.caf.mobile.notify.IMobileNotifierComponent: Method 'public void stopExecutorService()' has been added to an interface

com.webmethods.common.search.ISliceableSearchContext: Method 'public java.util.Map getExceptions()' has been added to an interface

com.webmethods.portal.mech.task.ITaskMechanics: Method 'public void fireTaskReindexStopEvent(com.webmethods.portal.service.task.ITaskDefinition, java.lang.String)' has been added to an interface

com.webmethods.portal.service.dir.IDirPrincipalList: Method 'public java.util.Map getExceptions()' has been added to an interface

com.webmethods.portal.service.task.ITaskDefinition: Method 'public com.webmethods.portal.service.meta2.dbo.HpstraIndexTable getHpstraIndexTable()' has been added to an interface

com.webmethods.portal.service.task.ITaskDefinition: Method 'public java.lang.String

getTaskDetailGadgetURIs()' has been added to an interface

com.webmethods.portal.service.task.ITaskDefinition: Method 'public boolean isHpstraEnabled()' has been added to an interface

com.webmethods.portal.service.task.ITaskDistributionService: Method 'public java.util.List getPrincipalActors(com.webmethods.portal.system.IURI[], boolean)' has been added to an interface

com.webmethods.portal.service.task.event.ITaskReindexStopEvent: Method 'public java.lang.String getIndexEngineType()' has been added to an interface

com.webmethods.portal.system.cluster.IClusterProvider: Method 'public void reloadClusterServers()' has been added to an interface

com.webmethods.rtl.script.nbsp.INBSPRuntime: Method 'public java.lang.Object lookup(java.util.Map, java.lang.String, boolean)' has been added to an interface

com.webmethods.rtl.script.nbsp.INBSPage: Method 'public java.lang.Object get(java.lang.String, boolean)' has been added to an interface

com.webmethods.rtl.script.nbsp.INBSPage: Method 'public java.lang.String getString(java.lang.String, java.lang.String, boolean)' has been added to an interface

com.softwareag.mws.screens.BaseScreenClass: Class com.softwareag.mws.screens.BaseScreenClass added

com.softwareag.mws.screens.Constants: Class com.softwareag.mws.screens.Constants added

com.softwareag.mws.screens.MWSLoginLogoutScreen: Class com.softwareag.mws.screens.MWSLoginLogoutScreen added

com.softwareag.mws.screens.applications.administration.systemwide.usermanagement.UsersScreen: Class com.softwareag.mws.screens.applications.administration.systemwide.usermanagement.UsersScreen added

com.webmethods.caf.faces.data.task.AggregationType: Class com.webmethods.caf.faces.data.task.AggregationType added

com.webmethods.caf.faces.data.task.IQueryAggregationInfo: Class com.webmethods.caf.faces.data.task.IQueryAggregationInfo added

com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended: Class com.webmethods.caf.faces.data.task.ITaskSearchQueryExtended added

com.webmethods.caf.faces.data.task.IndexEngineType: Class com.webmethods.caf.faces.data.task.IndexEngineType added

com.webmethods.caf.faces.data.task.impl.QueryAggregationInfo: Class com.webmethods.caf.faces.data.task.impl.QueryAggregationInfo added

com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider: Class com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider added

com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider$HpstraInboxSearch
Query: Class
com.webmethods.caf.faces.data.task.impl.TaskInboxHpstraSearchContentProvider$HpstraInboxSearch
Query added

com.webmethods.caf.faces.data.task.impl.TaskSearchQueryExtended: Class
com.webmethods.caf.faces.data.task.impl.TaskSearchQueryExtended added

com.webmethods.caf.faces.render.html.table.MoveRowLinkRenderer: Class
com.webmethods.caf.faces.render.html.table.MoveRowLinkRenderer added

com.webmethods.caf.mobile.notify.impl.PushNotification: Class
com.webmethods.caf.mobile.notify.impl.PushNotification added

com.webmethods.caf.mobile.notify.impl.PushNotification$PushNotificationCommandBean: Class
com.webmethods.caf.mobile.notify.impl.PushNotification$PushNotificationCommandBean added

com.webmethods.caf.mobile.notify.impl.SubscriptionCleanUpEvent: Class
com.webmethods.caf.mobile.notify.impl.SubscriptionCleanUpEvent added

com.webmethods.caf.mobile.notify.impl.SubscriptionCleanUpHandler: Class
com.webmethods.caf.mobile.notify.impl.SubscriptionCleanUpHandler added

com.webmethods.caf.mobile.notify.task.APNSCleanUpThread: Class
com.webmethods.caf.mobile.notify.task.APNSCleanUpThread added

com.webmethods.portal.bizPolicy.biz.task.impl.TaskDBOHelper$DBIndexer: Class
com.webmethods.portal.bizPolicy.biz.task.impl.TaskDBOHelper$DBIndexer added

com.webmethods.portal.bizPolicy.biz.task.impl.TaskIndexHelper: Class
com.webmethods.portal.bizPolicy.biz.task.impl.TaskIndexHelper added

com.webmethods.portal.bizPolicy.biz.task.impl.TaskIndexHelper$Indexer: Class
com.webmethods.portal.bizPolicy.biz.task.impl.TaskIndexHelper$Indexer added

com.webmethods.portal.bizPolicy.command.system.RuntimeStatusBean: Class
com.webmethods.portal.bizPolicy.command.system.RuntimeStatusBean added

com.webmethods.portal.bizPolicy.command.system.RuntimeTimeStatus: Class
com.webmethods.portal.bizPolicy.command.system.RuntimeTimeStatus added

com.webmethods.portal.bizPolicy.command.system.RuntimeTimeStatus$StatusInfo: Class
com.webmethods.portal.bizPolicy.command.system.RuntimeTimeStatus$StatusInfo added

com.webmethods.portal.bizPolicy.command.task.rs.LayeredProductVerionResource: Class
com.webmethods.portal.bizPolicy.command.task.rs.LayeredProductVerionResource added

com.webmethods.portal.bizPolicy.command.task.rs.LayeredProductVerionResource$Product: Class
com.webmethods.portal.bizPolicy.command.task.rs.LayeredProductVerionResource$Product added

com.webmethods.portal.bizPolicy.command.task.rs.LayeredProductVerionResource$ProductHolder:
Class
com.webmethods.portal.bizPolicy.command.task.rs.LayeredProductVerionResource$ProductHolder

added

com.webmethods.portal.jms.um.QueueType: Class com.webmethods.portal.jms.um.QueueType added

com.webmethods.portal.service.meta2.dbo.HpstraIndexTable: Class com.webmethods.portal.service.meta2.dbo.HpstraIndexTable added

com.webmethods.portal.service.meta2.dbo.HpstraIndexTable$DisplayField: Class com.webmethods.portal.service.meta2.dbo.HpstraIndexTable$DisplayField added

com.webmethods.portal.service.sql.runtime.base.TaskPendingUpdatesCleanup: Class com.webmethods.portal.service.sql.runtime.base.TaskPendingUpdatesCleanup added

com.webmethods.portal.service.sql.runtime.db2.TaskLockSetNew: Class com.webmethods.portal.service.sql.runtime.db2.TaskLockSetNew added

com.webmethods.portal.service.sql.runtime.db2.UpdateThingCounter: Class com.webmethods.portal.service.sql.runtime.db2.UpdateThingCounter added

com.webmethods.portal.service.sql.runtime.mssql.ThingNewPar: Class com.webmethods.portal.service.sql.runtime.mssql.ThingNewPar added

com.webmethods.portal.service.sql.runtime.mssql.UpdateThingCounter: Class com.webmethods.portal.service.sql.runtime.mssql.UpdateThingCounter added

com.webmethods.portal.service.sql.runtime.mysql.UpdateThingCounter: Class com.webmethods.portal.service.sql.runtime.mysql.UpdateThingCounter added

com.webmethods.portal.service.sql.runtime.oracle.TaskLockSetNew: Class com.webmethods.portal.service.sql.runtime.oracle.TaskLockSetNew added

com.webmethods.portal.service.sql.runtime.oracle.UpdateThingCounter: Class com.webmethods.portal.service.sql.runtime.oracle.UpdateThingCounter added

com.webmethods.portal.service.task.ITaskIndexEngineConfiguration: Class com.webmethods.portal.service.task.ITaskIndexEngineConfiguration added

com.webmethods.portal.service.task.ITaskIndexManager: Class com.webmethods.portal.service.task.ITaskIndexManager added

com.webmethods.portal.service.task.ITaskInfoFieldConverters: Class com.webmethods.portal.service.task.ITaskInfoFieldConverters added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$AcceptedByListValueConverter: Class com.webmethods.portal.service.task.ITaskInfoFieldConverters$AcceptedByListValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$CurrentUserValueConverter: Class com.webmethods.portal.service.task.ITaskInfoFieldConverters$CurrentUserValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$DateValueConverter: Class com.webmethods.portal.service.task.ITaskInfoFieldConverters$DateValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$FieldValueConverter: Class com.webmethods.portal.service.task.ITaskInfoFieldConverters$FieldValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$PriorityValueConverter: Class
com.webmethods.portal.service.task.ITaskInfoFieldConverters$PriorityValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$StatusValueConverter: Class
com.webmethods.portal.service.task.ITaskInfoFieldConverters$StatusValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$TaskIDValueConverter: Class
com.webmethods.portal.service.task.ITaskInfoFieldConverters$TaskIDValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$TaskTypeIDValueConverter: Class
com.webmethods.portal.service.task.ITaskInfoFieldConverters$TaskTypeIDValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$URIValueConverter: Class
com.webmethods.portal.service.task.ITaskInfoFieldConverters$URIValueConverter added

com.webmethods.portal.service.task.ITaskInfoFieldConverters$UserValueConverter: Class
com.webmethods.portal.service.task.ITaskInfoFieldConverters$UserValueConverter added

com.webmethods.portal.service.task.SearchContext: Class
com.webmethods.portal.service.task.SearchContext added

com.webmethods.portal.service.task.SearchKey: Class com.webmethods.portal.service.task.SearchKey added

com.webmethods.portal.service.task.SearchKey$TE_SearchKeys: Class
com.webmethods.portal.service.task.SearchKey$TE_SearchKeys added

com.webmethods.portal.service.task.TaskIndexEngineFactory: Class
com.webmethods.portal.service.task.TaskIndexEngineFactory added

com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent: Class
com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent added

com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$DistributionChangeType: Class
com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$DistributionChangeType added

com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$IListener: Class
com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$IListener added

com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$ISynchronousListener: Class
com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$ISynchronousListener added

com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$Listeners: Class
com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$Listeners added

com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$SynchronousListeners: Class
com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$SynchronousListeners added

com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$SynchronousListeners$SynchronousListener: Class com.webmethods.portal.service.task.event.ITaskDistributionChangedEvent$SynchronousListeners$SynchronousListener added

com.webmethods.portal.service.task.event.impl.TaskDistributionChangedEvent: Class com.webmethods.portal.service.task.event.impl.TaskDistributionChangedEvent added

com.webmethods.portal.service.task.event.impl.TaskReindexStopEvent: Class com.webmethods.portal.service.task.event.impl.TaskReindexStopEvent added

com.webmethods.portal.service.task.impl.TaskDBIndexConfiguration: Class com.webmethods.portal.service.task.impl.TaskDBIndexConfiguration added

com.webmethods.portal.system.cluster.impl.ClusterNodeRegisteredNotifier: Class com.webmethods.portal.system.cluster.impl.ClusterNodeRegisteredNotifier added

com.webmethods.pushNotification.apns.connection.pool.APNSConnectionPool: Class com.webmethods.pushNotification.apns.connection.pool.APNSConnectionPool added

com.webmethods.pushNotification.apns.connection.pool.APNSConnectionPoolManager: Class com.webmethods.pushNotification.apns.connection.pool.APNSConnectionPoolManager added

com.webmethods.pushNotification.apns.connection.pool.APNSConnectionProvider: Class com.webmethods.pushNotification.apns.connection.pool.APNSConnectionProvider added

com.webmethods.pushNotification.apns.connection.pool.APNSPoolableConnection: Class com.webmethods.pushNotification.apns.connection.pool.APNSPoolableConnection added

com.webmethods.pushNotification.apns.connection.pool.IConnectionProvider: Class com.webmethods.pushNotification.apns.connection.pool.IConnectionProvider added

com.webmethods.pushNotification.apns.connection.pool.IPoolableConnection: Class com.webmethods.pushNotification.apns.connection.pool.IPoolableConnection added

Removed API	Replacement, if any
com.webmethods.caf.mobile.notify.task.NotificationSender: Removed java.lang.Runnable from the set of implemented interfaces	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_ACCEPTED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_CANCELLED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_COMPLETED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_EXPIRED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_FAILED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_QUEUED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_REASSIGNED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_RELEASED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_RESUMED	
com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Removed field OPERATION_SUSPENDED	
com.webmethods.portal.bizPolicy.biz.task.impl.TaskDBOHelper: Removed field reindexAllTaskExecutor	
com.webmethods.portal.bizPolicy.biz.task.impl.TaskDBOHelper: Removed field reindexingTasks	
com.webmethods.portal.mech.task.impl.TaskMechanics: Removed field USE_LIGHT_WEIGHT_EVENTS	

Deprecated API	Replacement, if any
com.webmethods.portal.service.task.impl.TaskDistributionService: Method 'public java.util.List getPrincipalActors(com.webmethods.portal.system.IURI[], boolean)' has been deprecated	
com.webmethods.portal.service.task.impl.TaskDistributionService: Method 'protected java.util.List returnPagedTaskList(java.lang.String, java.lang.Object[], boolean)' has been deprecated	

Changed API	Description

com.webmethods.caf.mobile.notify.impl.AppleMessagingCloudConnectionDetails: Increased visibility of class from package to public

com.webmethods.caf.mobile.notify.util.MobileNotifierUtil: Value of compile-time constant ANDROID_JASON_PAYLOAD_TEMPLATE has been changed

com.webmethods.caf.faces.bean.BaseFacesBean: Accessibility of field EMPTY_RESOURCES has been increased from package to public

com.webmethods.caf.mobile.notify.task.NotificationSender: In method 'public NotificationSender(java.util.concurrent.BlockingQueue, com.sun.jersey.api.client.WebResource$Builder)' the number of arguments has changed

com.webmethods.caf.mobile.notify.util.MobileNotifierUtil: In method 'public com.webmethods.caf.mobile.notify.task.Message generatePayload(java.util.List, java.lang.String, java.lang.String)' the number of arguments has changed

com.webmethods.portal.jms.um.UmJMSClient: In method 'protected void createQueue(java.lang.String, boolean, int)' the number of arguments has changed

com.webmethods.portal.jms.um.UmJMSClient: In method 'protected void createTopic(java.lang.String, boolean, int)' the number of arguments has changed

com.webmethods.portal.mech.task.impl.TaskMechanics: In method 'public void fireTaskReindexStopEvent(com.webmethods.portal.service.task.ITaskDefinition)' the number of arguments has changed

com.webmethods.caf.mobile.notify.util.MobileNotifierUtil: Return type of method 'public com.webmethods.caf.mobile.notify.task.Message generateAndroidPayload(java.util.List, java.lang.String, java.lang.String)' has been changed to java.lang.String

com.webmethods.portal.jms.db.DbJMSConnProvider: Accessibility of method 'public DbJMSConnProvider()' has been decreased from public to private

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Added API	Description

com.webmethods.caf.common.thread.NamedThreadFactory: Method 'public NamedThreadFactory(java.lang.String, boolean)' has been added

com.webmethods.caf.faces.bean.mws_ui.HtmlHead: Method 'public java.lang.String getEffectsJS()' has been added

com.webmethods.caf.faces.convert.FormattedDateTimeConverter: Added protected field dateFormatDefault

com.webmethods.caf.faces.data.object.DateRange: Added protected field controlCalendar

com.webmethods.caf.faces.data.object.DateRange: Method 'protected java.util.Calendar

Added API	Description

getControlCalendar(javax.faces.context.FacesContext)' has been added

com.webmethods.caf.faces.data.object.DateRange: Method 'public void setControlCalendar(java.util.Calendar)' has been added

com.webmethods.caf.mobile.notify.IMobileNotificationConstants: Class com.webmethods.caf.mobile.notify.IMobileNotificationConstants added

com.webmethods.caf.mobile.notify.IMobileNotificationProvider: Class com.webmethods.caf.mobile.notify.IMobileNotificationProvider added

com.webmethods.caf.mobile.notify.IMobileNotifierComponent: Class com.webmethods.caf.mobile.notify.IMobileNotifierComponent added

com.webmethods.caf.mobile.notify.activator.MobileNotificationActivator: Class com.webmethods.caf.mobile.notify.activator.MobileNotificationActivator added

com.webmethods.caf.mobile.notify.impl.MobileNotificationProvider: Class com.webmethods.caf.mobile.notify.impl.MobileNotificationProvider added

com.webmethods.caf.mobile.notify.impl.MobileNotifierComponent: Class com.webmethods.caf.mobile.notify.impl.MobileNotifierComponent added

com.webmethods.caf.mobile.notify.impl.TaskEventsHandler: Class com.webmethods.caf.mobile.notify.impl.TaskEventsHandler added

com.webmethods.caf.mobile.notify.task.Message: Class com.webmethods.caf.mobile.notify.task.Message added

com.webmethods.caf.mobile.notify.task.MonitorPendingNotificationMessages: Class com.webmethods.caf.mobile.notify.task.MonitorPendingNotificationMessages added

com.webmethods.caf.mobile.notify.task.NotificationSender: Class com.webmethods.caf.mobile.notify.task.NotificationSender added

com.webmethods.caf.mobile.notify.util.MobileNotifierUtil: Class com.webmethods.caf.mobile.notify.util.MobileNotifierUtil added

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Method 'public org.w3c.dom.Element marshallSamlObject(org.opensaml.xml.XMLObject)' has been added

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Method 'public org.opensaml.xml.XMLObject unmarshallElement(org.w3c.dom.Element)' has been added

com.webmethods.portal.bizPolicy.biz.dir.IGroupBizPolicy: Added com.webmethods.portal.bizPolicy.biz.view.IViewableContainerPolicy to the set of implemented interfaces

com.webmethods.portal.bizPolicy.biz.dir.IPrincipalBizPolicy: Added com.webmethods.portal.bizPolicy.biz.view.IViewableContainerPolicy to the set of implemented interfaces

Added API	Description

com.webmethods.portal.bizPolicy.biz.dir.IUserBizPolicy: Added com.webmethods.portal.bizPolicy.biz.view.IViewableContainerPolicy to the set of implemented interfaces

com.webmethods.portal.bizPolicy.biz.dir.impl.GroupBizPolicy: Added com.webmethods.portal.bizPolicy.biz.view.IViewableContainerPolicy to the set of implemented interfaces

com.webmethods.portal.bizPolicy.biz.dir.impl.GroupBizPolicy: Added com.webmethods.portal.bizPolicy.biz.view.impl.ViewableContainerPolicy to the list of superclasses

com.webmethods.portal.bizPolicy.biz.dir.impl.PrincipalBizPolicy: Added com.webmethods.portal.bizPolicy.biz.view.IViewableContainerPolicy to the set of implemented interfaces

com.webmethods.portal.bizPolicy.biz.dir.impl.PrincipalBizPolicy: Added com.webmethods.portal.bizPolicy.biz.view.impl.ViewableContainerPolicy to the list of superclasses

com.webmethods.portal.bizPolicy.biz.dir.impl.UserBizPolicy: Added com.webmethods.portal.bizPolicy.biz.view.IViewableContainerPolicy to the set of implemented interfaces

com.webmethods.portal.bizPolicy.biz.dir.impl.UserBizPolicy: Added com.webmethods.portal.bizPolicy.biz.view.impl.ViewableContainerPolicy to the list of superclasses

com.webmethods.portal.bizPolicy.biz.task.impl.TaskInfo: Added java.io.Serializable to the set of implemented interfaces

com.webmethods.portal.bizPolicy.biz.task.impl.TaskInfoExtended: Added java.io.Serializable to the set of implemented interfaces

com.webmethods.portal.bizPolicy.command.ICommandManager: Method 'public com.webmethods.portal.bizPolicy.command.IRemoteCommandTransport getRemoteCommandTransport(java.lang.String)' has been added to an interface

com.webmethods.portal.bizPolicy.command.ICommandManager: Method 'public java.util.List invokeClusterCommand(com.webmethods.portal.bizPolicy.IContext,

com.webmethods.portal.bizPolicy.command.ICommand, com.webmethods.portal.bizPolicy.command.ICommandBean)' has been added to an interface

com.webmethods.portal.bizPolicy.command.ICommandResponseEntry: Class com.webmethods.portal.bizPolicy.command.ICommandResponseEntry added

com.webmethods.portal.bizPolicy.command.dir.GetPortalStyle: Method 'protected void checkAccess(com.webmethods.portal.bizPolicy.IContext,

com.webmethods.portal.mech.dir.IPrincipalMechanics, com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.bizPolicy.command.dir.SearchDirectory: Method 'protected void

Added API	Description

checkAccess(com.webmethods.portal.bizPolicy.IContext,

com.webmethods.portal.mech.dir.IDirServiceMechanics, com.webmethods.portal.service.meta2.thing.IThingID)' has been added

com.webmethods.portal.bizPolicy.command.dir.SearchDirectoryEx: Method 'protected void checkAccess(com.webmethods.portal.bizPolicy.IContext,

com.webmethods.portal.mech.dir.IDirServiceMechanics, com.webmethods.portal.service.meta2.thing.IThingID)' has been added

com.webmethods.portal.bizPolicy.command.dir.SearchDirectoryRefined: Method 'protected void checkAccess(com.webmethods.portal.bizPolicy.IContext,

com.webmethods.portal.mech.dir.IDirServiceMechanics, com.webmethods.portal.service.meta2.thing.IThingID)' has been added

com.webmethods.portal.bizPolicy.command.dir.SearchDirectoryRefinedPaged: Method 'protected void checkAccess(com.webmethods.portal.bizPolicy.IContext,

com.webmethods.portal.mech.dir.IDirServiceMechanics, com.webmethods.portal.service.meta2.thing.IThingID)' has been added

com.webmethods.portal.bizPolicy.command.impl.CommandManager: Method 'public com.webmethods.portal.bizPolicy.command.IRemoteCommandTransport getRemoteCommandTransport(java.lang.String)' has been added

com.webmethods.portal.bizPolicy.command.impl.CommandManager: Method 'public java.util.List invokeClusterCommand(com.webmethods.portal.bizPolicy.IContext,

com.webmethods.portal.bizPolicy.command.ICommand, com.webmethods.portal.bizPolicy.command.ICommandBean)' has been added

com.webmethods.portal.bizPolicy.command.remote.RemoteCommand: Class com.webmethods.portal.bizPolicy.command.remote.RemoteCommand added

com.webmethods.portal.bizPolicy.command.remote.RemoteCommandBean: Class com.webmethods.portal.bizPolicy.command.remote.RemoteCommandBean added

com.webmethods.portal.bizPolicy.command.remote.jms.JmsRemoteCommandTransport: Class com.webmethods.portal.bizPolicy.command.remote.jms.JmsRemoteCommandTransport added

com.webmethods.portal.bizPolicy.command.remote.jms.JmsRemoteCommandTransport$RemoteJmsException: Class

com.webmethods.portal.bizPolicy.command.remote.jms.JmsRemoteCommandTransport$RemoteJmsException added

com.webmethods.portal.bizPolicy.command.remote.jms.JmsRemoteTransaction: Class com.webmethods.portal.bizPolicy.command.remote.jms.JmsRemoteTransaction added

com.webmethods.portal.bizPolicy.command.system.JndiRefreshCluster: Class

Added API	Description
com.webmethods.portal.bizPolicy.command.system.JndiRefreshCluster added	
com.webmethods.portal.bizPolicy.command.task.jms.AbstractTaskCommand: Class	
com.webmethods.portal.bizPolicy.command.task.jms.AbstractTaskCommand added	
com.webmethods.portal.bizPolicy.command.task.jms.AbstractTaskCommandBean: Class com.webmethods.portal.bizPolicy.command.task.jms.AbstractTaskCommandBean added	
com.webmethods.portal.bizPolicy.command.task.jms.AddTaskAttachmentJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.AddTaskAttachmentJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.AddTaskCommentJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.AddTaskCommentJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.DeleteTaskAttachmentJMS: Class	
com.webmethods.portal.bizPolicy.command.task.jms.DeleteTaskAttachmentJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.DeleteTaskCommentJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.DeleteTaskCommentJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.DeleteTaskJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.DeleteTaskJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.GetTaskAttachmentsJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.GetTaskAttachmentsJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.GetTaskAuditJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.GetTaskAuditJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.GetTaskCommentsJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.GetTaskCommentsJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.GetTaskJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.GetTaskJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.QueueTaskJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.QueueTaskJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.SearchTasksFieldsJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.SearchTasksFieldsJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.SearchTasksJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.SearchTasksJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.SearchTasksPagedJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.SearchTasksPagedJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.SearchTasksTotalCountJMS: Class com.webmethods.portal.bizPolicy.command.task.jms.SearchTasksTotalCountJMS added	
com.webmethods.portal.bizPolicy.command.task.jms.UpdateTaskAttachmentJMS: Class	

Added API	Description

com.webmethods.portal.bizPolicy.command.task.jms.UpdateTaskAttachmentJMS added

com.webmethods.portal.bizPolicy.command.task.jms.UpdateTaskCommentJMS: Class
com.webmethods.portal.bizPolicy.command.task.jms.UpdateTaskCommentJMS added

com.webmethods.portal.bizPolicy.command.task.jms.UpdateTaskJMS: Class
com.webmethods.portal.bizPolicy.command.task.jms.UpdateTaskJMS added

com.webmethods.portal.bizPolicy.command.task.jms.impl.TaskJMSUtils: Class
com.webmethods.portal.bizPolicy.command.task.jms.impl.TaskJMSUtils added

com.webmethods.portal.bizPolicy.command.task.rs.MWSCustomDispatchProvider: Class
com.webmethods.portal.bizPolicy.command.task.rs.MWSCustomDispatchProvider added

com.webmethods.portal.bizPolicy.command.task.rs.MWSRequestDispatcher: Class
com.webmethods.portal.bizPolicy.command.task.rs.MWSRequestDispatcher added

com.webmethods.portal.bizPolicy.command.task.webservice.SearchTasksFieldsWS: Added
java.io.Serializable to the set of implemented interfaces

com.webmethods.portal.bizPolicy.command.task.webservice.SearchTasksWS: Added
java.io.Serializable to the set of implemented interfaces

com.webmethods.portal.bizPolicy.command.task.webservice.Task: Added java.io.Serializable to the set
of implemented interfaces

com.webmethods.portal.bizPolicy.command.task.webservice.dotnet.SearchTasksDotNetWS: Added
java.io.Serializable to the set of implemented interfaces

com.webmethods.portal.bizPolicy.command.task.webservice.dotnet.SearchTasksFieldsDotNetWS:
Added java.io.Serializable to the set of implemented interfaces

com.webmethods.portal.bizPolicy.impl.upgrade.MoveVersionSystemComponentData: Class
com.webmethods.portal.bizPolicy.impl.upgrade.MoveVersionSystemComponentData added

com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent: Class
com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent added

com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$IListener: Class
com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$IListener added

com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$ISynchronousListener: Class
com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$ISynchronousListener added

com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$Listeners: Class
com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$Listeners added

com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$QueueListeners: Class
com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$QueueListeners added

com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$SynchronousListeners: Class
com.webmethods.portal.event.dir.IDirPrincipalDNUpdationEvent$SynchronousListeners added

Added API	Description
com.webmethods.portal.event.dir.impl.DirPrincipalDNUpdationEvent: Class com.webmethods.portal.event.dir.impl.DirPrincipalDNUpdationEvent added	
com.webmethods.portal.event.sso.ISSODataChangeEvent: Class com.webmethods.portal.event.sso.ISSODataChangeEvent added	
com.webmethods.portal.event.sso.ISSODataChangeEvent$IListener: Class com.webmethods.portal.event.sso.ISSODataChangeEvent$IListener added	
com.webmethods.portal.event.sso.ISSODataChangeEvent$ISynchronousListener: Class com.webmethods.portal.event.sso.ISSODataChangeEvent$ISynchronousListener added	
com.webmethods.portal.event.sso.ISSODataChangeEvent$Listeners: Class com.webmethods.portal.event.sso.ISSODataChangeEvent$Listeners added	
com.webmethods.portal.event.sso.ISSODataChangeEvent$QueueListeners: Class com.webmethods.portal.event.sso.ISSODataChangeEvent$QueueListeners added	
com.webmethods.portal.event.sso.ISSODataChangeEvent$SynchronousListeners: Class com.webmethods.portal.event.sso.ISSODataChangeEvent$SynchronousListeners added	
com.webmethods.portal.event.sso.impl.SSODataChangeEvent: Class com.webmethods.portal.event.sso.impl.SSODataChangeEvent added	
com.webmethods.portal.framework.dispatch.handlers.system.SAMLSSOHandler: Class com.webmethods.portal.framework.dispatch.handlers.system.SAMLSSOHandler added	
com.webmethods.portal.framework.dispatch.preProcessors.OpenRedirectCheck: Class com.webmethods.portal.framework.dispatch.preProcessors.OpenRedirectCheck added	
com.webmethods.portal.framework.dispatch.resolvers.SAMLAuthReqResolver: Class com.webmethods.portal.framework.dispatch.resolvers.SAMLAuthReqResolver added	
com.webmethods.portal.framework.impl.PortalServlet: Added public field PORTAL_SERVLET_LOCK_OBJ	
com.webmethods.portal.framework.portletcontainer.servlet.JettyPortletRequestWrapper: Method 'public org.eclipse.jetty.util.MultiMap getParameterMultiMap()' has been added	
com.webmethods.portal.framework.portletcontainer.servlet.JettyPortletRequestWrapper: Method 'public java.util.Map getParameters()' has been added	
com.webmethods.portal.jms.JMSPhaseProvider: Added com.webmethods.portal.system.IComponent to the set of implemented interfaces	
com.webmethods.portal.jms.JMSPhaseProvider: Added com.webmethods.portal.system.IConstants to the set of implemented interfaces	
com.webmethods.portal.jms.JMSPhaseProvider: Added com.webmethods.portal.system.impl.BaseComponent to the list of superclasses	
com.webmethods.portal.jms.JMSPhaseProvider: Added public field COMPONENT_NAME	

Added API	Description

com.webmethods.portal.jms.um.UmJMSClient: Added abstract modifier to class

com.webmethods.portal.jms.um.UmJMSClient: Added com.webmethods.portal.system.init.IInitializable to the set of implemented interfaces

com.webmethods.portal.jms.um.UmJMSClient: Added com.webmethods.rtl.msg.jms.IJMSProvider to the set of implemented interfaces

com.webmethods.portal.jms.um.UmJMSClient: Added com.webmethods.rtl.msg.jms.JMSProvider to the list of superclasses

com.webmethods.portal.jms.um.UmJMSClient: Added com.webmethods.rtl.msg.jms.JMSStdConnProvider to the list of superclasses

com.webmethods.portal.jms.um.UmJMSClient: Method 'protected boolean createInitialContext()' has been added

com.webmethods.portal.jms.um.UmJMSClient: Method 'protected void registerFactory(org.w3c.dom.Element)' has been added

com.webmethods.portal.jms.um.UmJMSClient: Method 'protected void registerQueue(org.w3c.dom.Element)' has been added

com.webmethods.portal.jms.um.UmJMSClient: Method 'protected void registerTopic(org.w3c.dom.Element)' has been added

com.webmethods.portal.jms.um.UmJMSClient: Method 'protected void resetContext()' has been added

com.webmethods.portal.jms.um.UmJMSConnProvider: Added com.webmethods.portal.jms.um.UmJMSClient to the list of superclasses

com.webmethods.portal.jms.um.UmJMSConnProvider: Method 'protected void onDisconnect(boolean)' has been added

com.webmethods.portal.jms.um.UmJMSConnProvider: Method 'public void onShutdown()' has been added

com.webmethods.portal.mech.dir.IDirServiceMechanics: Method 'public java.util.List updatePrincipalUUID(int)' has been added to an interface

com.webmethods.portal.mech.dir.IGroupMechanics: Added com.webmethods.portal.mech.view.IViewableContainerMechanics to the set of implemented interfaces

com.webmethods.portal.mech.dir.IPrincipalMechanics: Added com.webmethods.portal.mech.view.IViewableContainerMechanics to the set of implemented interfaces

com.webmethods.portal.mech.dir.IRoleMechanics: Added com.webmethods.portal.mech.view.IViewableContainerMechanics to the set of implemented interfaces

com.webmethods.portal.mech.dir.IUserMechanics: Added com.webmethods.portal.mech.view.IViewableContainerMechanics to the set of implemented interfaces

com.webmethods.portal.mech.dir.impl.DirMechanicsUtils: Method 'public java.lang.String

Added API	Description

generateUUIDQuery(com.webmethods.portal.service.dir.IDirService, java.lang.String, int)' has been added

com.webmethods.portal.mech.dir.impl.DirServiceMechanics: Method 'public java.util.List updatePrincipalUUID(int)' has been added

com.webmethods.portal.mech.dir.impl.GroupMechanics: Added com.webmethods.portal.mech.view.IViewableContainerMechanics to the set of implemented interfaces

com.webmethods.portal.mech.dir.impl.GroupMechanics: Added com.webmethods.portal.mech.view.impl.ViewableContainerMechanics to the list of superclasses

com.webmethods.portal.mech.dir.impl.PrincipalMechanics: Added com.webmethods.portal.mech.view.IViewableContainerMechanics to the set of implemented interfaces

com.webmethods.portal.mech.dir.impl.PrincipalMechanics: Added com.webmethods.portal.mech.view.impl.ViewableContainerMechanics to the list of superclasses

com.webmethods.portal.mech.dir.impl.RoleMechanics: Added com.webmethods.portal.mech.view.IViewableContainerMechanics to the set of implemented interfaces

com.webmethods.portal.mech.dir.impl.RoleMechanics: Added com.webmethods.portal.mech.view.impl.ViewableContainerMechanics to the list of superclasses

com.webmethods.portal.mech.dir.impl.UserMechanics: Added com.webmethods.portal.mech.view.IViewableContainerMechanics to the set of implemented interfaces

com.webmethods.portal.mech.dir.impl.UserMechanics: Added com.webmethods.portal.mech.view.impl.ViewableContainerMechanics to the list of superclasses

com.webmethods.portal.mech.task.impl.RefreshTaskHandler: Class com.webmethods.portal.mech.task.impl.RefreshTaskHandler added

com.webmethods.portal.mech.task.impl.TaskHelper: Method 'public java.lang.ClassLoader getClassLoaderIfExists(com.webmethods.portal.service.task.ITaskDefinition)' has been added

com.webmethods.portal.mech.view.impl.ViewableContainerMechanics: Method 'protected com.webmethods.portal.service.view.IPagingCookie createPagingCookie(com.webmethods.portal.service.meta2.thing.IThingID)' has been added

com.webmethods.portal.service.access.IAccessPrivilegeConfiguration: Class com.webmethods.portal.service.access.IAccessPrivilegeConfiguration added

com.webmethods.portal.service.access.impl.DashboardAclManager: Class com.webmethods.portal.service.access.impl.DashboardAclManager added

com.webmethods.portal.service.access.impl.DashboardAclManager$DashboardAclResource: Class com.webmethods.portal.service.access.impl.DashboardAclManager$DashboardAclResource added

com.webmethods.portal.service.access.impl.DashboardContainerAclManager: Class com.webmethods.portal.service.access.impl.DashboardContainerAclManager added

Added API	Description

com.webmethods.portal.service.access.impl.DashboardContainerAclManager$DashboardContainerAcl Resource: Class

com.webmethods.portal.service.access.impl.DashboardContainerAclManager$DashboardContainerAcl Resource added

com.webmethods.portal.service.access.impl.GadgetsAclManager: Method 'public java.util.Map getResultColumnMetadata()' has been added

com.webmethods.portal.service.access.impl.GadgetsAclManager: Method 'public java.util.List searchResources(com.webmethods.caf.faces.search.query.ISearchQuery)' has been added

com.webmethods.portal.service.access.impl.GadgetsAclManager$GadgetAclResource: Method 'public java.lang.Object getValue(java.lang.Object)' has been added

com.webmethods.portal.service.access.impl.WMAppsAclManager: Method 'public void addServiceTracker(org.osgi.framework.BundleContext)' has been added

com.webmethods.portal.service.access.impl.WMAppsAclManager: Method 'public void stopServiceTracker()' has been added

com.webmethods.portal.service.cache.impl.AliasCache: Added com.webmethods.portal.event.remove.IDeleteEvent$ISynchronousListener to the set of implemented interfaces

com.webmethods.portal.service.cache.impl.AliasCache: Method 'public void onSynchronousEvent(com.webmethods.portal.event.remove.IDeleteEvent)' has been added

com.webmethods.portal.service.dir.DirectoryTools: Added public field UUIDUserResolution

com.webmethods.portal.service.dir.DirectoryTools: Added protected field UUID_CONFIG

com.webmethods.portal.service.dir.DirectoryTools: Method 'public com.webmethods.portal.service.dir.IDirService getDirectoryService(com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.service.dir.DirectoryTools: Method 'public java.util.List getEmptyUUIDUsers()' has been added

com.webmethods.portal.service.dir.DirectoryTools: Method 'public java.lang.Boolean getUUIDResolution()' has been added

com.webmethods.portal.service.dir.DirectoryTools: Method 'public java.lang.String getUserDNFromUserUUID(java.lang.String, com.webmethods.portal.service.meta2.IUserService)' has been added

com.webmethods.portal.service.dir.DirectoryTools: Method 'public void invalidateGroupRoleCache(com.webmethods.portal.service.meta2.thing.IThingID)' has been added

com.webmethods.portal.service.dir.DirectoryTools: Method 'public com.webmethods.portal.service.meta2.thing.IThingID

Added API	Description

resolveUserByUUID(com.webmethods.portal.service.dir.init.IInitializableUser)' has been added

com.webmethods.portal.service.dir.DirectoryTools: Method 'public java.util.List updatePrincipalUUID()' has been added

com.webmethods.portal.service.dir.IDirConstants: Added public field USER_UUID

com.webmethods.portal.service.dir.IDirQueryProvider: Method 'public com.webmethods.portal.service.dir.IDirPrincipal lookupByUUID(int, java.lang.String)' has been added to an interface

com.webmethods.portal.service.dir.impl.DirServicePortletBean: Method 'public boolean isSirNameFirst(com.webmethods.portal.bizPolicy.IContext)' has been added

com.webmethods.portal.service.dir.init.IInitializablePrincipal: Method 'public java.lang.String getUUID()' has been added to an interface

com.webmethods.portal.service.dir.init.impl.InitializablePrincipal: Method 'public java.lang.String getUUID()' has been added

com.webmethods.portal.service.meta2.IUserService: Method 'public java.util.List getEmptyUUIDUsers()' has been added to an interface

com.webmethods.portal.service.meta2.IUserService: Method 'public java.util.Map getUserDetailsByURI(com.webmethods.portal.system.IURI)' has been added to an interface

com.webmethods.portal.service.meta2.IUserService: Method 'public java.util.Map getUserDetailsByUUID(java.lang.String)' has been added to an interface

com.webmethods.portal.service.meta2.IUserService: Method 'public void invalidateUserUUID()' has been added to an interface

com.webmethods.portal.service.meta2.IUserService: Method 'public void updateDistinguishedName(java.lang.String, java.lang.String, int)' has been added to an interface

com.webmethods.portal.service.meta2.IUserService: Method 'public void updateUUID(java.lang.String, java.lang.String, int)' has been added to an interface

com.webmethods.portal.service.meta2.directory.IUserInfo: Method 'public java.lang.String getUUID()' has been added to an interface

com.webmethods.portal.service.meta2.directory.impl.User: Method 'public java.lang.String getUUID()' has been added

com.webmethods.portal.service.meta2.directory.impl.UserInfo: Added protected field uuid

com.webmethods.portal.service.meta2.directory.impl.UserInfo: Method 'public java.lang.String getUUID()' has been added

com.webmethods.portal.service.meta2.impl.UserService: Method 'public java.util.List getEmptyUUIDUsers()' has been added

com.webmethods.portal.service.meta2.impl.UserService: Method 'public java.util.Map

Added API	Description

getUserDetailsByURI(com.webmethods.portal.system.IURI)' has been added

com.webmethods.portal.service.meta2.impl.UserService: Method 'public java.util.Map getUserDetailsByUUID(java.lang.String)' has been added

com.webmethods.portal.service.meta2.impl.UserService: Method 'public void invalidateUserUUID()' has been added

com.webmethods.portal.service.meta2.impl.UserService: Method 'public void updateDistinguishedName(java.lang.String, java.lang.String, int)' has been added

com.webmethods.portal.service.meta2.impl.UserService: Method 'public void updateUUID(java.lang.String, java.lang.String, int)' has been added

com.webmethods.portal.service.socialbpm.chart.impl.ChartData: Method 'public java.lang.String getTaskTypeID()' has been added

com.webmethods.portal.service.socialbpm.chart.impl.ChartData: Method 'public void setTaskTypeID(java.lang.String)' has been added

com.webmethods.portal.service.socialbpm.chart.impl.ChartService: Method 'protected java.lang.String getTaskTypeID(java.lang.String)' has been added

com.webmethods.portal.service.sql.runtime.base.EmptyUUIDUserList: Class com.webmethods.portal.service.sql.runtime.base.EmptyUUIDUserList added

com.webmethods.portal.service.sql.runtime.base.InvalidateUserUUID: Class com.webmethods.portal.service.sql.runtime.base.InvalidateUserUUID added

com.webmethods.portal.service.sql.runtime.base.SetUserGroupUUID: Class com.webmethods.portal.service.sql.runtime.base.SetUserGroupUUID added

com.webmethods.portal.service.sql.runtime.base.TaskLockSetNew: Class com.webmethods.portal.service.sql.runtime.base.TaskLockSetNew added

com.webmethods.portal.service.sql.runtime.base.UserDetailsByURI: Class com.webmethods.portal.service.sql.runtime.base.UserDetailsByURI added

com.webmethods.portal.service.sql.runtime.base.UserDetailsByUUID: Class com.webmethods.portal.service.sql.runtime.base.UserDetailsByUUID added

com.webmethods.portal.service.task.ITaskLockingService: Method 'public com.webmethods.portal.service.task.ITaskLock acquireLock(com.webmethods.portal.system.IURI,

com.webmethods.portal.system.IURI, long, long, boolean)' has been added to an interface

com.webmethods.portal.service.task.event.RefreshTaskEvent: Class com.webmethods.portal.service.task.event.RefreshTaskEvent added

com.webmethods.portal.service.task.event.RefreshTaskEvent$ISynchronousListener: Class com.webmethods.portal.service.task.event.RefreshTaskEvent$ISynchronousListener added

com.webmethods.portal.service.task.event.RefreshTaskEvent$SynchronousListeners: Class

Added API	Description

com.webmethods.portal.service.task.event.RefreshTaskEvent$SynchronousListeners added

com.webmethods.portal.service.task.event.RefreshTaskEvent$SynchronousListeners$SynchronousListener: Class

com.webmethods.portal.service.task.event.RefreshTaskEvent$SynchronousListeners$SynchronousListener added

com.webmethods.portal.service.task.event.TaskChangedEventRetry: Class
com.webmethods.portal.service.task.event.TaskChangedEventRetry added

com.webmethods.portal.service.task.event.impl.RefreshTaskEvent: Class
com.webmethods.portal.service.task.event.impl.RefreshTaskEvent added

com.webmethods.portal.service.task.impl.TaskLockingService: Method 'public
com.webmethods.portal.service.task.ITaskLock acquireLock(com.webmethods.portal.system.IURI,
com.webmethods.portal.system.IURI, long, long, boolean)' has been added

com.webmethods.portal.system.ISAMLSSOConstants: Class
com.webmethods.portal.system.ISAMLSSOConstants added

com.webmethods.portal.system.cluster.IClusterProvider: Method 'public java.lang.String
getClusterId()' has been added to an interface

com.webmethods.portal.system.cluster.IClusterProvider: Method 'public boolean
isCurrentServer(com.webmethods.portal.system.cluster.IServer)' has been added to an interface

com.webmethods.portal.system.cluster.IClusterProvider: Method 'public void
recreateJNDIConnection()' has been added to an interface

com.webmethods.portal.system.cluster.IClusterProvider: Method 'public boolean
reloadJNDIProviderURL()' has been added to an interface

com.webmethods.portal.system.cluster.impl.ClusterProvider: Added public field
CLUSTER_ID_PROP_KEY

com.webmethods.portal.system.cluster.impl.ClusterProvider: Added public field s_logCategory

com.webmethods.portal.system.cluster.impl.ClusterProvider: Method 'public java.lang.String
getClusterId()' has been added

com.webmethods.portal.system.cluster.impl.ClusterProvider: Method 'public boolean
isCurrentServer(com.webmethods.portal.system.cluster.IServer)' has been added

com.webmethods.portal.system.cluster.impl.ClusterProvider: Method 'public void
recreateJNDIConnection()' has been added

com.webmethods.portal.system.cluster.impl.ClusterProvider: Method 'public boolean
reloadJNDIProviderURL()' has been added

com.webmethods.portal.system.sso.saml.idp.SAMLIdentityProvider: Class
com.webmethods.portal.system.sso.saml.idp.SAMLIdentityProvider added

Added API	Description

com.webmethods.portal.system.sso.saml.idp.SAMLSSODataChangeListener: Class com.webmethods.portal.system.sso.saml.idp.SAMLSSODataChangeListener added

com.webmethods.portal.system.sso.saml.idp.SAMLServiceProvider: Class com.webmethods.portal.system.sso.saml.idp.SAMLServiceProvider added

com.webmethods.portal.system.sso.saml.idp.SSOIDPConfiguration: Class com.webmethods.portal.system.sso.saml.idp.SSOIDPConfiguration added

com.webmethods.portal.system.sso.saml.idp.WebSSOPropsUtil: Class com.webmethods.portal.system.sso.saml.idp.WebSSOPropsUtil added

com.webmethods.portal.taglib.TaglibUtil: Method 'public java.lang.String generateUniqueID()' has been added

com.webmethods.portal.webservices.wsclient.PortalArtifactFactory: Method 'public org.opensaml.saml2.core.AuthnRequest getAuthnRequest(java.lang.String)' has been added

com.webmethods.portal.webservices.wsclient.PortalArtifactFactory: Method 'public java.lang.String getResponse(java.net.URL, java.lang.String, java.util.Map, java.lang.String[], java.util.Map, org.opensaml.saml2.core.AuthnRequest)' has been added

com.webmethods.portal.webservices.wsclient.PortalArtifactFactory: Method 'public void reInitSecurityTokenService()' has been added

com.webmethods.rtl.event.DeliveryService: Method 'public java.lang.String addClusterIdPrefix(java.lang.String)' has been added

com.webmethods.rtl.event.DeliveryService: Method 'public void setClusterId(java.lang.String)' has been added

com.webmethods.rtl.event.DeliveryService: Method 'public void startRemoteDelivery()' has been added

com.webmethods.rtl.event.DeliveryService: Method 'public void stopRemoteDelivery()' has been added

com.webmethods.rtl.event.Event: Method 'public java.lang.String getJcrSessionUserData()' has been added

com.webmethods.rtl.event.IEvent: Method 'public java.lang.String getJcrSessionUserData()' has been added to an interface

com.webmethods.rtl.jms.PortalClientOverJMS: Class com.webmethods.rtl.jms.PortalClientOverJMS added

com.webmethods.rtl.logging.EnhancedPatternLayout: Class com.webmethods.rtl.logging.EnhancedPatternLayout added

com.webmethods.rtl.msg.jms.IJMSProvider: Method 'public java.lang.String getEndpointAddress()' has been added to an interface

Added API	Description
com.webmethods.rtl.msg.jms.IJMSProvider: Method 'public boolean isConnected()' has been added to an interface	
com.webmethods.rtl.msg.jms.JMSProvider: Added protected field m_endpointAddress	
com.webmethods.rtl.msg.jms.JMSProvider: Added protected field m_isConnected	
com.webmethods.rtl.msg.jms.JMSProvider: Method 'public java.lang.String getEndpointAddress()' has been added	
com.webmethods.rtl.msg.jms.JMSProvider: Method 'public boolean isConnected()' has been added	
com.webmethods.rtl.msg.jms.JMSProvider: Abstract method 'protected void stopConnections()' has been added	
com.webmethods.rtl.msg.jms.JMSStdConnProvider: Method 'protected void stopConnections()' has been added	
com.webmethods.rtl.script.JspC: Method 'public java.lang.String getExcludes()' has been added	
com.webmethods.rtl.script.JspC: Method 'public void setExcludes(java.lang.String)' has been added	
com.webmethods.rtl.util.xml.XMLUtil: Method 'protected org.w3c.dom.Document _loadDocumentUncaught(org.xml.sax.InputSource)' has been added	
com.webmethods.rtl.util.xml.XMLUtil: Method 'public org.w3c.dom.Document loadDocumentFromInputStreamUncaught(java.io.InputStream)' has been added	
com.webmethods.rtl.util.xml.XMLUtil: Method 'public org.w3c.dom.Document loadDocumentFromReaderUncaught(java.io.Reader)' has been added	
com.webmethods.rtl.util.xml.XMLUtil: Method 'public org.w3c.dom.Document loadDocumentFromXMLUncaught(java.lang.String)' has been added	
com.webmethods.rtl.util.xml.XMLUtil: Method 'public org.w3c.dom.Document loadDocumentUncaught(java.lang.String)' has been added	

Removed API	Replacement, if any
com.webmethods.caf.jcr.rmi.IRMITunnelHttpPortAware: Class com.webmethods.caf.jcr.rmi.IRMITunnelHttpPortAware removed	
com.webmethods.caf.jcr.rmi.JcrRMIHttpToCGISocketFactory: Class com.webmethods.caf.jcr.rmi.JcrRMIHttpToCGISocketFactory removed	
com.webmethods.caf.jcr.rmi.JcrRMIMasterSocketFactory: Class com.webmethods.caf.jcr.rmi.JcrRMIMasterSocketFactory removed	
com.webmethods.jackrabbit.server.io.DefaultHandler: Class com.webmethods.jackrabbit.server.io.DefaultHandler removed	

Removed API	Replacement, if any
com.webmethods.jackrabbit.servlet.JCRWebdavServerServlet: Class com.webmethods.jackrabbit.servlet.JCRWebdavServerServlet removed	
com.webmethods.jackrabbit.servlet.SimpleWebdavServlet: Class com.webmethods.jackrabbit.servlet.SimpleWebdavServlet removed	
com.webmethods.portal.jms.um.UmJMSClient: Field DEFAULT_UM_REALM has been removed, but it was previously a constant	
com.webmethods.portal.jms.um.UmJMSClient: Method 'public void init()' has been removed	
com.webmethods.portal.schema.bcgadget.GadgetDefinition: Removed field gadgetExternalScripts	
com.webmethods.portal.schema.bcgadget.GadgetDefinition: Method 'public com.webmethods.portal.schema.bcgadget.GadgetDefinition$GadgetExternalScripts getGadgetExternalScripts()' has been removed	
com.webmethods.portal.schema.bcgadget.GadgetDefinition: Method 'public void setGadgetExternalScripts(com.webmethods.portal.schema.bcgadget.GadgetDefinition$GadgetExternal Scripts)' has been removed	
com.webmethods.portal.schema.bcgadget.GadgetDefinition$GadgetExternalScripts: Class com.webmethods.portal.schema.bcgadget.GadgetDefinition$GadgetExternalScripts removed	
com.webmethods.portal.schema.bcgadget.ObjectFactory: Method 'public com.webmethods.portal.schema.bcgadget.GadgetDefinition$GadgetExternalScripts createGadgetDefinitionGadgetExternalScripts()' has been removed	
com.webmethods.portal.service.access.impl.GadgetsAclManager: Method 'protected java.lang.String buildXPathQuery(java.util.Map)' has been removed, but an inherited definition exists.	
com.webmethods.portal.service.access.impl.GadgetsAclManager$GadgetAclResource: Method 'public GadgetsAclManager$GadgetAclResource(javax.jcr.Node, java.lang.String)' has been removed	
com.webmethods.rtl.msg.jms.JMSProvider: Method 'public void enableMessageDelivery()' has been removed	
com.webmethods.rtl.msg.jms.JMSProvider: Method 'public boolean hasInitialized()' has been removed	
com.webmethods.rtl.msg.jms.JMSProvider: Method 'protected void setInstance(com.webmethods.rtl.msg.jms.JMSProvider)' has been removed	
com.webmethods.rtl.msg.jms.JMSProvider: Method 'protected void startConnections()' has been removed com.webmethods.rtl.msg.jms.JMSStdConnProvider: Method 'protected void startConnections()' has been removed	

Changed API	Description

com.webmethods.caf.common.bnd.PortletXmlAnalyzer: Parameter 1 of 'public boolean analyzeJar(aQute.lib.osgi.Analyzer)' has changed its type to aQute.bnd.osgi.Analyzer

com.webmethods.caf.common.bnd.WebXmlAnalyzer: Parameter 1 of 'public boolean analyzeJar(aQute.lib.osgi.Analyzer)' has changed its type to aQute.bnd.osgi.Analyzer

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Parameter 2 of 'public void displayAssertion(java.io.PrintWriter, org.opensaml.SAMLAssertion)' has changed its type to org.opensaml.saml1.core.Assertion

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Parameter 1 of 'public java.lang.String getLoginName(org.opensaml.SAMLAssertion)' has changed its type to org.opensaml.saml1.core.Assertion

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Return type of method 'public org.opensaml.SAMLAssertion getSamlAssertion(java.lang.String, java.lang.String)' has been changed to org.opensaml.saml1.core.Assertion

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Parameter 1 of 'public org.opensaml.SAMLAssertion getSamlAssertion(org.opensaml.SAMLResponse)' has changed its type to org.opensaml.saml1.core.Response

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Return type of method 'public org.opensaml.SAMLAssertion getSamlAssertion(org.opensaml.SAMLResponse)' has been changed to org.opensaml.saml1.core.Assertion

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Return type of method 'public org.opensaml.SAMLResponse getSamlResponse(java.lang.String, java.lang.String)' has been changed to org.opensaml.saml1.core.Response

com.webmethods.caf.wsserver.auth.saml.SamlUtils: Parameter 1 of 'public java.lang.String verifyAssertion(org.opensaml.SAMLAssertion)' has changed its type to org.opensaml.saml1.core.Assertion

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public UmJMSClient()' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void closeUMSession(com.pcbsys.nirvana.client.nSession)' has been decreased from public to private

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void createConnectionFactory(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Return type of method 'public javax.naming.Context createJNDIContext()' has been changed to void

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public javax.naming.Context createJNDIContext()' has been decreased from public to private

Changed API	Description

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void createQueue(java.lang.String, boolean, int)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void createQueueConnectionFactory(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void createStringVal(java.lang.String, java.lang.String)' has been decreased from public to package

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void createTopic(java.lang.String, boolean, int)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void createTopicConnectionFactory(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void createXAConnectionFactory(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void deleteConnectionFactory(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void deleteQueue(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void deleteQueueConnectionFactory(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void deleteTopic(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public void deleteTopicConnectionFactory(java.lang.String)' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public javax.naming.Context getJNDIContext()' has been decreased from public to protected

com.webmethods.portal.jms.um.UmJMSClient: Accessibility of method 'public com.pcbsys.nirvana.client.nSession getUMSession()' has been decreased from public to private

com.webmethods.portal.service.bcgadget.IBCGadgetProvider: Return type of method 'public java.util.List getAccessibleGadgets(com.webmethods.portal.service.meta2.thing.IThingID)' has been changed to java.util.Map

com.webmethods.portal.service.bcgadget.impl.BCGadgetProvider: Return type of method 'public java.util.List getAccessibleGadgets(com.webmethods.portal.service.meta2.thing.IThingID)' has been changed to java.util.Map

com.webmethods.portal.service.task.impl.TaskLockingService: Accessibility of field TASK_LOCK_MAX_TIME has been increased from private to public

com.webmethods.portal.service.task.impl.TaskLockingService: Accessibility of field

Changed API	Description

TASK_LOCK_MAX_WAIT_TIME has been increased from private to public

com.webmethods.portal.service.task.impl.TaskLockingService: In method 'protected com.webmethods.portal.service.task.ITaskLock createDbLock(com.webmethods.portal.service.sql.ISqlWorker, com.webmethods.portal.service.meta2.thing.IThingID, java.util.Date, java.util.Date)' the number of arguments has changed

com.webmethods.portal.system.PortalSystem: Accessibility of method 'private void initGuestUser()' has been increased from private to public

com.webmethods.rtl.msg.jms.JMSProvider: Accessibility of method 'public void onShutdown()' has been decreased from public to protected

com.webmethods.rtl.msg.jms.JMSProvider: Accessibility of method 'private void setMaintenanceMode(boolean)' has been increased from private to protected

com.webmethods.rtl.msg.jms.JMSStdConnProvider: Accessibility of method 'public JMSStdConnProvider()' has been decreased from public to protected

com.webmethods.portal.service.version.impl.dcvs.DCVersionService: Value of compile-time constant VERSION_SERVICES_ROOT has been changed

Release 9.10

com.webmethods.portal.bizPolicy.biz.access.IAccessPolicy: Method 'public com.webmethods.portal.service.view.IListView listSecurityRealmObjects(com.webmethods.portal.bizPolicy.IContext, com.webmethods.portal.service.meta2.thing.IThingID)' has been added to an interface

com.webmethods.portal.mech.subscription.ISubscribableMechanics: Method 'public void checkViewSubscription(com.webmethods.portal.system.IURI, com.webmethods.portal.service.meta2.thing.IThingID, java.util.Map, com.webmethods.portal.service.meta2.thing.IThingID)' has been added to an interface

com.webmethods.portal.bizPolicy.biz.IBizPolicyResolver: Method 'public com.webmethods.portal.bizPolicy.biz.IBizPolicy getBizPolicyByType(java.lang.String, java.util.Map)' has been added to an interface

com.webmethods.caf.wsclient.saml.IArtifactFactory: Method 'public java.lang.String getAssertion(java.lang.String, java.lang.String[], java.util.Map)' has been added to an interface

com.webmethods.caf.wsclient.saml.IArtifactFactory: Method 'public java.lang.String getAssertion(java.lang.String, java.lang.String[], java.util.Map, java.util.Map)' has been added to an interface

com.webmethods.caf.wsclient.session.IWSClientSession: Method 'public java.util.Map getSessionCookieMap()' has been added to an interface

com.webmethods.caf.wsclient.session.IWSClientSession: Method 'public void setSessionCookieMap(java.util.Map)' has been added to an interface

com.webmethods.caf.wsclient.session.IWSClientSessionManager: Method 'public com.webmethods.caf.wsclient.session.IWSClientSessionPool getSessionPool(com.webmethods.caf.wsclient.proxy.IWSClientProxy, java.lang.String)' has been added to an interface

com.webmethods.caf.faces.data.task.ITaskInfo: Method 'public java.util.Date getTaskScheduleDate()' has been added to an interface

com.webmethods.caf.faces.data.task.ITaskInfo: Method 'public void setCreatedDate(java.util.Date)' has been added to an interface

com.webmethods.caf.faces.data.task.ITaskInfo: Method 'public void setTaskScheduleDate(java.util.Date)' has been added to an interface

com.webmethods.portal.service.task.ITask: Method 'public java.util.Date getTaskScheduleDate()' has been added to an interface

Changed API	Description
POST a New Task Instance	The Task Engine RESTful web service in My webMethods Server now accepts the task schedule details for a task instance to be added to Task Engine's queue.
PUT Information in a Task Instance	The Task Engine RESTful web service in My webMethods Server now allows changes to the new taskScheduleDate parameter if a task instance is in scheduled state.
GET Task Instance Information	The Task Engine RESTful web service in My webMethods Server now retrieves the task schedule date along with other details of a task instance.

com.webmethods.portal.event.system.ICriterionEvent$IListener: Parameter 1 of 'public void onEvent(com.webmethods.portal.event.system.ISubscriptionEvent)' has changed its type to com.webmethods.portal.event.system.ICriterionEvent

com.webmethods.portal.event.system.ICriterionEvent$ISynchronousListener: Parameter 1 of 'public void onSynchronousEvent(com.webmethods.portal.event.system.ISubscriptionEvent)' has changed its type to com.webmethods.portal.event.system.ICriterionEvent

com.webmethods.portal.service.access.impl.MwsObjectAclManager: In method 'protected int countAceProperties(java.util.List)' the number of arguments has changed

com.webmethods.caf.wsclient.session.impl.WSClientSessionManager: Parameter 2 of 'protected java.lang.String getSessionPoolID(com.webmethods.caf.wsclient.proxy.IWSClientProxy, com.webmethods.caf.wsclient.AuthCredentials)' has changed its type to java.lang.String

Removed API/ Description

com.webmethods.portal.mech.system.ISystemMechanics: Removed
com.webmethods.portal.mech.access.IAccessMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.ISystemMechanics: Removed
com.webmethods.portal.mech.clipboard.IClipboardMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.ISystemMechanics: Removed
com.webmethods.portal.mech.storage.IBasicMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.ISystemMechanics: Removed
com.webmethods.portal.mech.subscription.ISubscribableMechanics from the set of implemented
interfaces

com.webmethods.portal.mech.system.ISystemMechanics: Removed
com.webmethods.portal.mech.view.IViewableMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed
com.webmethods.portal.mech.access.IAccessMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed
com.webmethods.portal.mech.clipboard.IClipboardMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed
com.webmethods.portal.mech.storage.IBasicMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed
com.webmethods.portal.mech.subscription.ISubscribableMechanics from the set of implemented
interfaces

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed
com.webmethods.portal.mech.view.IViewableMechanics from the set of implemented interfaces

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed
com.webmethods.portal.mech.clipboard.impl.ClipboardMechanics from the list of superclasses

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed
com.webmethods.portal.mech.storage.impl.BasicMechanics from the list of superclasses

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed
com.webmethods.portal.mech.subscription.impl.SubscribableMechanics from the list of superclasses

com.webmethods.portal.mech.system.impl.SystemMechanics: Removed
com.webmethods.portal.mech.view.impl.ViewableMechanics from the list of superclasses

com.webmethods.portal.webapp.jetty7.WebApplicationInstallService: Removed field
COMPONENT_DELETE_RETRIES

com.webmethods.portal.service.global.impl.LanguagePackManager: Field QUERY_STRING has been
removed, but it was previously a constant

com.webmethods.caf.faces.convert.FormattedDateTimeConverter: Method 'protected java.text.DateFormat setupGMTDateTimeFormater(javax.faces.context.FacesContext)' has been removed

com.webmethods.portal.mech.socialbpm.comments.ICommentsMechanics: Method 'public java.util.List getTaskCommentsByProcessModelId(java.lang.String, int, int, int)' has been added to an interface

com.webmethods.portal.service.socialbpm.comments.ICommentsService: Method 'public java.util.List getPaginatedTaskCommentsByProcessModelId(java.lang.String, int, int, int)' has been added to an interface

com.webmethods.portal.service.dir.IRoleSystem: Method 'public void clearCache(com.webmethods.portal.service.dir.IDirPrincipal)' has been added to an interface

com.webmethods.portal.mech.dir.IPrincipalMechanics: Method 'public void fireRoleMembershipEvent(com.webmethods.portal.service.meta2.thing.IThingID, com.webmethods.portal.system.IURI, com.webmethods.portal.service.dir.IDirPrincipalList, com.webmethods.portal.service.dir.IDirPrincipalList, int)' has been added to an interface

move the com.webmethods.jms.** packages from caf-server bundle to a unique package name

com.webmethods.jms.JMSPhaseProvider: Class com.webmethods.jms.JMSPhaseProvider removed

com.webmethods.jms.db.DbJMSClient: Class com.webmethods.jms.db.DbJMSClient removed

com.webmethods.jms.db.DbJMSConnProvider: Class com.webmethods.jms.db.DbJMSConnProvider removed

com.webmethods.jms.db.impl.JMSConnection: Class com.webmethods.jms.db.impl.JMSConnection removed

com.webmethods.jms.db.impl.JMSConnection$CompressedObject: Class com.webmethods.jms.db.impl.JMSConnection$CompressedObject removed

com.webmethods.jms.db.impl.JMSDestination: Class com.webmethods.jms.db.impl.JMSDestination removed

com.webmethods.jms.db.impl.JMSDispatcherThread: Class com.webmethods.jms.db.impl.JMSDispatcherThread removed

com.webmethods.jms.db.impl.JMSEvent: Class com.webmethods.jms.db.impl.JMSEvent removed

com.webmethods.jms.db.impl.JMSMessage: Class com.webmethods.jms.db.impl.JMSMessage removed

com.webmethods.jms.db.impl.JMSMessageConsumer: Class com.webmethods.jms.db.impl.JMSMessageConsumer removed

com.webmethods.jms.db.impl.JMSMessageProducer: Class com.webmethods.jms.db.impl.JMSMessageProducer removed

com.webmethods.jms.db.impl.JMSObjectMessage: Class
com.webmethods.jms.db.impl.JMSObjectMessage removed

com.webmethods.jms.db.impl.JMSPollThread: Class com.webmethods.jms.db.impl.JMSPollThread
removed

com.webmethods.jms.db.impl.JMSQueue: Class com.webmethods.jms.db.impl.JMSQueue removed

com.webmethods.jms.db.impl.JMSQueuePollThread: Class
com.webmethods.jms.db.impl.JMSQueuePollThread removed

com.webmethods.jms.db.impl.JMSQueueReceiver: Class
com.webmethods.jms.db.impl.JMSQueueReceiver removed

com.webmethods.jms.db.impl.JMSQueueSender: Class
com.webmethods.jms.db.impl.JMSQueueSender removed

com.webmethods.jms.db.impl.JMSQueueSession: Class
com.webmethods.jms.db.impl.JMSQueueSession removed

com.webmethods.jms.db.impl.JMSSession: Class com.webmethods.jms.db.impl.JMSSession removed

com.webmethods.jms.db.impl.JMSTopic: Class com.webmethods.jms.db.impl.JMSTopic removed

com.webmethods.jms.db.impl.JMSTopicBatchMessage: Class
com.webmethods.jms.db.impl.JMSTopicBatchMessage removed

com.webmethods.jms.db.impl.JMSTopicPublisher: Class
com.webmethods.jms.db.impl.JMSTopicPublisher removed

com.webmethods.jms.db.impl.JMSTopicSession: Class com.webmethods.jms.db.impl.JMSTopicSession
removed

com.webmethods.jms.db.impl.JMSTopicSubscriber: Class
com.webmethods.jms.db.impl.JMSTopicSubscriber removed

com.webmethods.jms.db.impl.QueueFactory: Class com.webmethods.jms.db.impl.QueueFactory
removed

com.webmethods.jms.db.impl.TopicFactory: Class com.webmethods.jms.db.impl.TopicFactory
removed

com.webmethods.jms.db.impl.db2.EventDelivered: Class
com.webmethods.jms.db.impl.db2.EventDelivered removed

com.webmethods.jms.db.impl.db2.EventPoll: Class com.webmethods.jms.db.impl.db2.EventPoll
removed

com.webmethods.jms.db.impl.db2.EventSave: Class com.webmethods.jms.db.impl.db2.EventSave
removed

com.webmethods.jms.db.impl.db2.GetSqlTime: Class com.webmethods.jms.db.impl.db2.GetSqlTime
removed

com.webmethods.jms.db.impl.db2.PublishQueue: Class
com.webmethods.jms.db.impl.db2.PublishQueue removed

com.webmethods.jms.db.impl.db2.PurgeEvents: Class com.webmethods.jms.db.impl.db2.PurgeEvents
removed

com.webmethods.jms.db.impl.db2.PurgeInactiveSubscriptions: Class
com.webmethods.jms.db.impl.db2.PurgeInactiveSubscriptions removed

com.webmethods.jms.db.impl.db2.RegisterDestination: Class
com.webmethods.jms.db.impl.db2.RegisterDestination removed

com.webmethods.jms.db.impl.db2.RegisterSubscription: Class
com.webmethods.jms.db.impl.db2.RegisterSubscription removed

com.webmethods.jms.db.impl.db2.UnregisterSubscription: Class
com.webmethods.jms.db.impl.db2.UnregisterSubscription removed

com.webmethods.jms.db.impl.db2.UpdateSubscriptions: Class
com.webmethods.jms.db.impl.db2.UpdateSubscriptions removed

com.webmethods.jms.db.impl.mssql.EventDelivered: Class
com.webmethods.jms.db.impl.mssql.EventDelivered removed

com.webmethods.jms.db.impl.mssql.EventPoll: Class com.webmethods.jms.db.impl.mssql.EventPoll
removed

com.webmethods.jms.db.impl.mssql.EventSave: Class com.webmethods.jms.db.impl.mssql.EventSave
removed

com.webmethods.jms.db.impl.mssql.GetSqlTime: Class
com.webmethods.jms.db.impl.mssql.GetSqlTime removed

com.webmethods.jms.db.impl.mssql.PublishQueue: Class
com.webmethods.jms.db.impl.mssql.PublishQueue removed

com.webmethods.jms.db.impl.mssql.PurgeEvents: Class
com.webmethods.jms.db.impl.mssql.PurgeEvents removed

com.webmethods.jms.db.impl.mssql.PurgeInactiveSubscriptions: Class
com.webmethods.jms.db.impl.mssql.PurgeInactiveSubscriptions removed

com.webmethods.jms.db.impl.mssql.RegisterDestination: Class
com.webmethods.jms.db.impl.mssql.RegisterDestination removed

com.webmethods.jms.db.impl.mssql.RegisterSubscription: Class
com.webmethods.jms.db.impl.mssql.RegisterSubscription removed

com.webmethods.jms.db.impl.mssql.UnregisterSubscription: Class
com.webmethods.jms.db.impl.mssql.UnregisterSubscription removed

com.webmethods.jms.db.impl.mssql.UpdateSubscriptions: Class
com.webmethods.jms.db.impl.mssql.UpdateSubscriptions removed

com.webmethods.jms.db.impl.mysql.EventDelivered: Class
com.webmethods.jms.db.impl.mysql.EventDelivered removed

com.webmethods.jms.db.impl.mysql.EventPoll: Class com.webmethods.jms.db.impl.mysql.EventPoll
removed

com.webmethods.jms.db.impl.mysql.EventSave: Class com.webmethods.jms.db.impl.mysql.EventSave
removed

com.webmethods.jms.db.impl.mysql.GetSqlTime: Class
com.webmethods.jms.db.impl.mysql.GetSqlTime removed

com.webmethods.jms.db.impl.mysql.PublishQueue: Class
com.webmethods.jms.db.impl.mysql.PublishQueue removed

com.webmethods.jms.db.impl.mysql.PurgeEvents: Class
com.webmethods.jms.db.impl.mysql.PurgeEvents removed

com.webmethods.jms.db.impl.mysql.PurgeInactiveSubscriptions: Class
com.webmethods.jms.db.impl.mysql.PurgeInactiveSubscriptions removed

com.webmethods.jms.db.impl.mysql.RegisterDestination: Class
com.webmethods.jms.db.impl.mysql.RegisterDestination removed

com.webmethods.jms.db.impl.mysql.RegisterSubscription: Class
com.webmethods.jms.db.impl.mysql.RegisterSubscription removed

com.webmethods.jms.db.impl.mysql.UnregisterSubscription: Class
com.webmethods.jms.db.impl.mysql.UnregisterSubscription removed

com.webmethods.jms.db.impl.mysql.UpdateSubscriptions: Class
com.webmethods.jms.db.impl.mysql.UpdateSubscriptions removed

com.webmethods.jms.db.impl.oracle.EventDelivered: Class
com.webmethods.jms.db.impl.oracle.EventDelivered removed

com.webmethods.jms.db.impl.oracle.EventPoll: Class com.webmethods.jms.db.impl.oracle.EventPoll
removed

com.webmethods.jms.db.impl.oracle.EventSave: Class com.webmethods.jms.db.impl.oracle.EventSave
removed

com.webmethods.jms.db.impl.oracle.GetSqlTime: Class
com.webmethods.jms.db.impl.oracle.GetSqlTime removed

com.webmethods.jms.db.impl.oracle.PublishQueue: Class
com.webmethods.jms.db.impl.oracle.PublishQueue removed

com.webmethods.jms.db.impl.oracle.PurgeEvents: Class
com.webmethods.jms.db.impl.oracle.PurgeEvents removed

com.webmethods.jms.db.impl.oracle.PurgeInactiveSubscriptions: Class
com.webmethods.jms.db.impl.oracle.PurgeInactiveSubscriptions removed

com.webmethods.jms.db.impl.oracle.RegisterDestination: Class
com.webmethods.jms.db.impl.oracle.RegisterDestination removed

com.webmethods.jms.db.impl.oracle.RegisterSubscription: Class
com.webmethods.jms.db.impl.oracle.RegisterSubscription removed

com.webmethods.jms.db.impl.oracle.UnregisterSubscription: Class
com.webmethods.jms.db.impl.oracle.UnregisterSubscription removed

com.webmethods.jms.db.impl.oracle.UpdateSubscriptions: Class
com.webmethods.jms.db.impl.oracle.UpdateSubscriptions removed

com.webmethods.jms.db.impl.sybase.EventPoll: Class com.webmethods.jms.db.impl.sybase.EventPoll
removed

com.webmethods.jms.db.impl.sybase.PublishQueue: Class
com.webmethods.jms.db.impl.sybase.PublishQueue removed

com.webmethods.jms.db.impl.sybase.PurgeEvents: Class
com.webmethods.jms.db.impl.sybase.PurgeEvents removed

com.webmethods.jms.um.UmJMSClient: Class com.webmethods.jms.um.UmJMSClient removed

com.webmethods.jms.um.UmJMSConnProvider: Class
com.webmethods.jms.um.UmJMSConnProvider removed

electric.util.holder.ArrayOfbyteInOut: Class electric.util.holder.ArrayOfbyteInOut removed

electric.util.holder.ArrayOfbyteOut: Class electric.util.holder.ArrayOfbyteOut removed

com.webmethods.portal.bizPolicy.command.system.xml.XMLImport: Field
OVERWRITE_PERMISSIONS_KEY has been removed, but it was previously a constant

com.webmethods.portal.service.dir.IDirService: Method 'public boolean supportsNestedGroups()' has
been added to an interface

com.webmethods.caf.faces.application.CAFStateManager: Class
com.webmethods.caf.faces.application.CAFStateManager removed

com.webmethods.caf.faces.application.CAFStateManager$TreeStructure: Class
com.webmethods.caf.faces.application.CAFStateManager$TreeStructure removed

com.webmethods.caf.faces.portlet.PortletViewFragmentPhaseListener: Class
com.webmethods.caf.faces.portlet.PortletViewFragmentPhaseListener removed

com.webmethods.caf.faces.portlet.PortletViewFragmentPhaseListenerWrapper: Class
com.webmethods.caf.faces.portlet.PortletViewFragmentPhaseListenerWrapper removed

com.webmethods.caf.faces.portlet.PortletViewHandler: Method 'protected void
initResponse(javax.faces.context.FacesContext, javax.faces.component.UIViewRoot)' has been removed

com.webmethods.caf.faces.portlet.PortletViewHandler: Method 'protected void
renderResponse(javax.faces.context.FacesContext, javax.faces.component.UIViewRoot)' has been
removed

com.webmethods.caf.faces.render.html.command.CommandFormRenderer: In method 'protected java.lang.String getTagName()' the number of arguments has changed

com.webmethods.caf.faces.render.html.command.DisjointFormRenderer: In method 'protected java.lang.String getTagName()' the number of arguments has changed

com.webmethods.caf.faces.view.BaseViewHandler: Field STATE_KEY has been removed, but it was previously a constant

com.webmethods.caf.faces.view.BaseViewHandler: Method 'protected void initResponse(javax.faces.context.FacesContext, javax.faces.component.UIViewRoot)' has been removed

com.webmethods.caf.faces.view.BaseViewHandler: Method 'protected void renderResponse(javax.faces.context.FacesContext, javax.faces.component.UIViewRoot)' has been removed

com.webmethods.caf.faces.view.CafViewDeclarationLanguage: Field INJECT_STATE has been removed, but it was previously a constant

com.webmethods.caf.faces.view.CafViewDeclarationLanguage: Field NO_RENDER has been removed, but it was previously a constant

com.webmethods.caf.faces.view.CafViewDeclarationLanguage: Field STATE_KEY has been removed, but it was previously a constant

com.webmethods.caf.faces.view.CafViewDeclarationLanguage: Field VIEW_FRAGMENT has been removed, but it was previously a constant

com.webmethods.caf.faces.view.CafViewDeclarationLanguage: Field VIEW_FRAGMENT_CLIENT_ID has been removed, but it was previously a constant

com.webmethods.caf.faces.view.CafViewDeclarationLanguage: Return type of method 'protected void initResponse(javax.faces.context.FacesContext, javax.faces.component.UIViewRoot)' has been changed to javax.faces.context.ResponseWriter

com.webmethods.caf.faces.view.CafViewDeclarationLanguage: Method 'protected void renderResponse(javax.faces.context.FacesContext, javax.faces.component.UIViewRoot)' has been removed

com.webmethods.caf.faces.view.ViewFragmentPhaseListener: Class com.webmethods.caf.faces.view.ViewFragmentPhaseListener removed

12.0 Copyright Information

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13.0 Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the TECHcommunity website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

TE-RM-107-20201019

webMethods Trading Networks 10.11 and webMethods Optimize for B2B 10.11 Readme

October 2021

This file contains important information you must read before using webMethods Trading Networks 10.11 and webMethods Optimize for B2B 10.11. You can find system requirements, user documentation, and installation and upgrade instructions on the Documentation website or the TECHcommunity website. At those locations, you can also find the suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0 Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0 Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

3.0 Usage Notes

This section provides any additional information you need to work with the current release of this product.

4.0 Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Release 10.11

- TNS_10.7_Fix1
- TN_10.7_MWS_Fix1
- TNS_10.7_Database_Fix1
- TNS_10.5_Fix10
- TNS_10.5_Fix9
- TNS_10.5_Fix8
- TNS_10.5_Fix7
- TN_10.5_MWS_Fix4
- TNS_10.5_Database_Fix7
- TNS_10.5_Database_Fix6
- TNS_10.5_Database_Fix5
- TNS_10.5_Database_Fix4
- TNS_10.3_Fix11

- TNS_10.3_Fix10
- TNS_10.1_Fix11
- TNS_9.7_Fix15

Release 10.7

- TNS_10.5_Fix5
- TNS_10.5_Fix4
- TNS_10.5_Fix5
- TNS_10.5_Database_Fix2
- TNS_10.5_Database_Fix3
- TNS_10.3_Fix8
- TNS_10.3_Fix9
- TNS_10.3_Fix7
- TNS_10.1_Fix9
- TNS_10.1_Fix10
- TNS_10.3_Fix6
- TNS_10.5_Fix3
- TNS_9.6_Fix13
- TNS_10.5_Fix2
- TNS_10.1_Fix8
- TN_10.5_MWS_Fix1
- TN_10.1_MWS_Fix8
- TNS_10.5_Fix1
- TNS_10.5_Database_Fix1
- TN_10.1_MWS_Fix7
- TN_10.5_MWS_Fix2
- TNS_10.3_Fix5
- TN_10.3_MWS_Fix5
- TN_10.3_MWS_Fix6
- TNS_9.12_Fix13

- TNS_9.12_Fix14
- TNS_10.1_Fix7
- TN_10.1_MWS_Fix6
- TN_9.12_MWS_Fix11

Release 10.5

- TNS_10.4_Fix1
- TNS_10.4_Database_Fix1
- TN_10.3_MWS_Fix4
- TNS_10.3_Fix4
- TN_10.1_MWS_Fix5
- TNS_10.1_Fix6
- TN_9.12_MWS_Fix10
- TNS_9.12_Fix12
- TN_9.10_MWS_Fix9
- TNS_9.10_Fix11
- TN_9.9_MWS_Fix7
- TNS_9.9_Fix10
- TN_9.8_MWS_Fix7
- TNS_9.8_Fix10
- TNS_9.7_Fix13
- TN_9.7_MWS_Fix12
- TN_9.6_MWS_Fix8
- TNS_9.6_Fix12
- TN_9.5_SP1_MWS_Fix6
- TNS_9.5_SP1_Fix12
- TN_9.0_SP1_MWS_Fix8
- TNS_9.0_SP1_Fix9

Release 10.4

- TN_10.3_MWS_Fix3

- TNS_10.3_Fix2
- TNS_10.2_Fix1
- TN_10.2_MWS_Fix1
- TN_10.1_MWS_Fix4
- TNS_10.1_Fix5
- TN_9.12_MWS_Fix10
- TNS_9.12_Fix10
- TN_9.10_MWS_Fix8
- TNS_9.10_Fix10
- TN_9.9_MWS_Fix7
- TNS_9.9_Fix10
- TN_9.8_MWS_Fix7
- TNS_9.8_Fix9
- TNS_9.7_Fix13
- TN_9.7_MWS_Fix12
- TN_9.6_MWS_Fix7
- TNS_9.6_Fix11
- TN_9.5_SP1_MWS_Fix6
- TNS_9.5_SP1_Fix12
- TN_9.0_SP1_MWS_Fix8
- TNS_9.0_SP1_Fix9

Release 10.3

- TNS_10.2_Fix1
- TN_10.2_MWS_Fix1
- TN_10.1_MWS_Fix3
- TNS_10.1_Fix4
- TN_9.12_MWS_Fix9
- TNS_9.12_Fix9
- TN_9.10_MWS_Fix7

- TNS_9.10_Fix9
- TN_9.9_MWS_Fix6
- TNS_9.9_Fix9
- TN_9.8_MWS_Fix7
- TNS_9.8_Fix9
- TNS_9.7_Fix13
- TN_9.7_MWS_Fix12
- TN_9.6_MWS_Fix7
- TNS_9.6_Fix11
- TN_9.5_SP1_MWS_Fix6
- TNS_9.5_SP1_Fix12
- TN_9.0_SP1_MWS_Fix8
- TNS_9.0_SP1_Fix9

Release 10.2

- TN_10.1_MWS_Fix2
- TNS_10.1_Fix2
- TN_9.12_MWS_Fix8
- TNS_9.12_Fix8
- TN_9.10_MWS_Fix6
- TNS_9.10_Fix8
- TN_9.9_MWS_Fix6
- TNS_9.9_Fix8
- TN_9.8_MWS_Fix7
- TNS_9.8_Fix9
- TNS_9.7_Fix12
- TN_9.7_MWS_Fix12
- TN_9.6_MWS_Fix7
- TNS_9.6_Fix11
- TN_9.5_SP1_MWS_Fix6

- TNS_9.5_SP1_Fix12
- TN_9.0_SP1_MWS_Fix8
- TNS_9.0_SP1_Fix9

Release 10.1

- TN_9.12_MWS_Fix4
- TNS_9.12_Fix4
- TN_9.10_MWS_Fix3
- TNS_9.10_Fix5
- TN_9.9_MWS_Fix5
- TNS_9.9_Fix7
- TN_9.8_MWS_Fix6
- TNS_9.8_Fix8
- TN_9.7_MWS_Fix11
- TNS_9.7_Fix11
- TN_9.6_MWS_Fix6
- TNS_9.6_Fix10
- TN_9.5_SP1_MWS_Fix6
- TNS_9.5_SP1_Fix12
- TN_9.0_SP1_MWS_Fix8
- TNS_9.0_SP1_Fix9

Release 10.0

- TN_9.12_MWS_Fix2
- TNS_9.12_Fix2
- TN_9.10_MWS_Fix2
- TNS_9.10_Fix3
- TN_9.9_MWS_Fix4
- TNS_9.9_Fix5
- TN_9.8_MWS_Fix5
- TNS_9.8_Fix7

- TN_9.7_MWS_Fix10
- TNS_9.7_Fix10
- TN_9.6_MWS_Fix6
- TNS_9.6_Fix10
- TN_9.5_SP1_MWS_Fix6
- TNS_9.5_SP1_Fix12
- TN_9.0_SP1_MWS_Fix8
- TNS_9.0_SP1_Fix9

Release 9.12

- TN_9.10_MWS_Fix2
- TNS_9.10_Fix2
- TNS_9.9_Fix3
- TN_9.8_MWS_Fix5
- TNS_9.8_Fix7
- TN_9.7_MWS_Fix9
- TNS_9.7_Fix9
- TN_9.6_MWS_Fix6
- TNS_9.6_Fix10
- TNS_9.5_SP1_Fix12
- TNS_9.0_SP1_Fix9

Release 9.10

- TN_9.9_MWS_Fix1
- TNS_9.9_Fix1
- TN_9.8_MWS_Fix3
- TNS_9.8_Fix5
- TN_9.7_MWS_Fix5

- TNS_9.7_Fix6

- TNS_9.6_Fix7

- TNS_9.5_SP1_Fix9

5.0 Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Release 10.5

- OTN-20440

  In webMethods Trading Networks, Original Sender and Original Receiver fields are not available in Query Fields tab under Transactions.
  This issue is resolved. Now the fields are available.

- OTN-20090

  In webMethods Trading Networks, invalid or disabled numeric document attributes are causing NullPointerException errors while processing EDA events. As a result, EDA transactions are getting rolled back and causing performance issues.
  Additionally, inserting into TransactionSummaryData frequently was causing performance issues.
  These issues are resolved.

Release 10.3

- OTN-19362

  When you click the EDIINT document type on either the Transactions page or Document Types page, the My webMethods user interface displays an error - Could not find out a Document Type editor for the selected Document type.
  This issue is resolved.

- OTN-19116

  When a partner profile has many externalIDs (around ~700), the external IDs table stops rendering the information after a certain number of pages.
  This is because client side caching is enabled for the table in My webMethods Server user interface. Navigating to next the page adds rows in the HTML form on the client side. The form size keeps growing resulting in "Form too Large" errors.

The issue is now resolved by disabling the client side caching for external ID
table in the Partner Profile page.

- OTN-19364
The '&' and '?' characters can be used in the contact and email fields of a Partner
Profile.

Release 9.12

- OTN-16377
Inbuilt 'Unknown' document details in Trading Networks are changed using the import and export
feature.
Exporting, modifying, and importing an 'Unknown' document results in a change of the document
name.
This issue is resolved.

- OTN-16197
Inbuilt 'Unknown' partner profile details in Trading Networks are changed using the import and
export feature.
Exporting, modifying, and importing an 'Unknown' partner profile results in a change of the
partner profile name.
This issue is resolved.

- OTN-15070
In My webMethods: Administration > Partner Profiles > Delivery Settings > Suspend Delivery
Schedule page, 'Time Zone' is not localized.
This issue occurs if localizations are not handled for 'Time Zone.'
This issue is resolved.

- OTN-15067
In My webMethods: Administration > Partner Profiles > Delivery Settings > Suspend Delivery
Schedule page, 'Recurrence Pattern' is not localized.
This issue occurs if localizations are not handled for 'Recurrence Pattern.'
This issue is resolved.

- OTN-15045
In My webMethods: Administration > Partner Profiles > Delivery Settings page, the 'Status' icon
tooltip is not localized.
This issue occurs if localizations are not handled for the 'Status' icon tooltip.
This issue is resolved.

- OTN-15044
In My webMethods: Administration > Partner Profiles > Delivery Settings > Suspend Delivery
Schedule page, the 'Days' selection is not localized.
This issue occurs if localizations are not handled for the 'Days' selection.
This issue is resolved.

- OTN-15043
  In My webMethods: Administration > Partner Profiles > Delivery Settings page, 'Suspend Delivery Schedule' is not localized.
  This issue occurs if localizations are not handled for 'Suspend Delivery Schedule.'
  This issue is resolved.

- OTN-15624
  Updation or creation of a partner profile fails with the following error in the Integration Server log:
  [SoftwareAG][SQLServer JDBC Driver][SQLServer]Invalid column name 'LastModified'.
  This issue occurs because the column name is not in Pascal.
  This issue is resolved.

- OTN-15788
  The Clear button is enabled before creating a certificate in the Certificates Tab under the Partner Profiles page.
  The Clear button is enabled due to a CAF update.
  This issue is resolved.

- OTN-15472
  While using the Lookup of Address or Contact in Partner Profile an exception occurs.
  When a user uses the lookup for Address or Contact in partner profile with TN database pointed to DB2, the following exception is displayed:
  "Failed to evaluate binding expression: "#{ContactsPage.impactedPartners}"
  This issue is resolved.

6.0 Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.11

The following information is added in *webMethods Trading Networks Administrator's Guide*:

- Ability to test partner connection.

- My SQL 8.0 Community Edition support.

Release 10.4

The following information is added in *webMethods Trading Networks Administrator's Guide*:

- tn.query.ignoreWildCardSearchCharacters in the Database Query Parameters section.

- Certificate ID field usage in the Updating Certificate Sets section.

The following information is modified in *webMethods Trading Networks Administrator's Guide*:

- tn.query.wildCardSearchCharacter in the Database Query Parameters section.

Release 10.3

The following information is added in *webMethods Trading Networks Administrator's Guide*:

- Monitoring API Usage

- Size Limit for Delivering Large Documents

The following information is modified in *webMethods Trading Networks Administrator's Guide*:

- Configuring Trading Networks for MySQL Enterprise Edition

Release 10.2

The following conceptual and procedural information is added in *webMethods Trading Networks Administrator's Guide*:

- SFTP delivery method

- Managing partner access to APIs

- Using Command Central to Manage Trading Networks

- Configuring Trading Networks MySQL 5.7 Community Edition

- Configuring Trading Networks MySQL 5.7 Enterprise Edition

- Understanding the Trading Networks Terminology

- Monitoring Transactions

- Summary of the Configuration Steps

The following public services are added in *webMethods Trading Networks Built-In Services Reference:*

- wm.tn.transport:Sftp

- wm.tn.transport:primarySftp

- wm.tn.transport:secondarySftp

- wm.tn.rec:SftpDeliveryServiceOutput

- wm.tn.rec:SftpOutput

The following section is added in *webMethods Trading Networks User's Guide:*

- Managing APIs

Release 10.1

The following conceptual and procedural information is added in *webMethods Trading Networks Administrator's Guide*:

- Stored Procedure in About Archiving and Deleting Documents

- Setting Up Stored Procedure Archive and Deletion

The following service is added in *webMethods Trading Networks Built-In Services Reference:*

- wm.tn.archive:archiveByStoredProc

Release 9.12

The Trading Networks Webhelp is not available as a standalone document on the Empower website. The contents of the Trading Networks Webhelp are available in the B2B Integration compendium.

Release 9.10

The following procedural information has been added to the *webMethods Trading Networks Administrator's Guide*:

- Copying or Sharing Addresses

- Copying or Sharing Contacts

- Adding a Custom Immediate Delivery Method to a Profile

- Copying or Sharing Custom Immediate Delivery Methods

7.0 Terminology Changes

A release is listed in this section only if changes occurred in that release.

8.0 Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 10.11

Added Item	Description
Ability to test partner connections	You can test connection details for a partner and ensure its proper working.
My SQL 8.0 Community Edition support	You can configure MySQL Community Edition 8.0 with Trading Networks Server 10.11.

Release 10.7

The Trading Networks Built-In Services Guide was integrated with Software AG Designer in Service Development mode to help you develop custom flows for business usecases. The input and output parameters of each service appears on the UI of Software AG Designer.

Release 10.4

Added Item	Description
Display Certificate ID	The Certificate ID uniquely identifies the certificate chain configured in a partner profile.
Enable search that includes special characters	Trading Networks provides the ability to enable search of transactional data that includes special characters such as % (percentage) and _ (underscore).

Release 10.3

Added Item	Description
Install and Uninstall Trading Network assets through command Central	Trading network assets can be installed and uninstalled through Command Central.
Large document handling support	Trading Networks provides the ability to deliver large documents by using Active Transfer.
API Usage Monitoring	Trading Networks provides the capability to monitor trading partner's API usage from: Monitoring > Integration > B2B > API Usage.

Release 10.2

Added Item	Description
Manage API Access to Partners	Trading Networks provides the ability to connect to an API Gateway instance to manage partner access to APIs.
Integration with Command Central	Command central supports management of Trading Networks configurations including management of Trading Networks instances and properties related to Trading Networks servers. It also enables template-based provisioning of Trading Networks instances.
SFTP Document Delivery Method	Trading Networks allows you to deliver documents using the SFTP protocol.
GDPR Compliance	Trading Networks server is now in compliance with General Data Protection Regulation (GDPR) for removing user's data from the system permanently.
My SQL 5.7 Enterprise and Community Edition support	You can configure MySQL Enterprise Edition 5.7 and MySQL Community Edition 5.7 with Trading Networks Server 10.2.

Release 10.1

Added Item	Description
Stored Procedure	Trading Networks provides the ability to archive and delete documents from the production and archive tables using the stored procedure archive script.

Release 9.12

Added Item	Description
Integration with ActiveTransfer	Trading Networks provides an ability to deliver documents through ActiveTransfer. Administrators can select ActiveTransfer as the delivery method in Trading Networks and set the end points that ActiveTransfer will connect with to transfer files.
Configure User Status	Administrators can configure user statuses and allow it to be set only from a predefined set of values.
Transport Status	Trading Networks allows you to search and view the status of a service for a delivery task.

Release 9.10

Added Item	Description
Reusability of Address, Contacts, and Delivery Methods.	Trading Networks allows you to reuse configuration items across multiple partners. The configuration items that are made reusable are address, contacts, and delivery methods.

9.0 Added, Removed, Deprecated, or Changed Built-In Services

A release is listed in this section only if changes occurred in that release.

Release 10.2

Added Service	Description

Added Service	Description
wm.tn.transport:activeTransfer	Three new variables namely success, transactionId, and message can be utilized while designing a flow service using Designer.

Release 10.1

Added Service	Description
wm.tn.archive:archiveByStoredProc	Archives documents and deletes documents from the Trading Networks database using the stored procedure archive script.

Release 9.12

Added Service	Description
wm.tn.transport:activeTransfer	Delivers documents using webMethods ActiveTransfer.
wm.tn.rec:activeTransferOutput	If a task uses the ActiveTransfer delivery service to deliver documents, use this IS document type to map the output from the delivery service.
wm.tn.doc:addConfigUserStatusList	Adds new user status values to the configured list of user status values.
wm.tn.doc:deleteConfigUserStatusList	Deletes user status values from the configured list of user status values.
wm.tn.doc:getConfigUserStatusList	Provides the configured list of user status values.

10.0   Added, Removed, Deprecated, or Changed Parameters

A release is listed in this section only if changes occurred in that release.

Release 10.2

Added Parameter	Description
tn.api.gateway.server.alias	This parameter is to set the alias in Trading Networks to point to the Integration Server configured API Gateway.

11.0   Copyright Information

12.0   Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the TECHcommunity website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

TNOPTB2B-RM-1011-20211015

webMethods Unit Test Framework 10.11

Readme October 2021

This file contains important information you must read before using webMethods Unit Test Framework 10.11. You can find user documentation on the [Documentation website](#) or the [TECHcommunity website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0   Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0 Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the Empower website.

3.0 Usage Notes

This section provides any additional information you need to work with the current release of this product.

4.0 Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the Empower website for detailed information about fixes.

Release 10.11

GWM_10.5_wMTestSuiteDesigner_Fix4

GWM_10.5_wMTestSuiteCommonLib_Fix4

GWM_10.5_wMTestSuiteServer_Fix4

Release 10.7

GWM_10.5_wMTestSuiteDesigner_Fix2

GWM_10.5_wMTestSuiteCommonLib_Fix2

GWM_10.5_wMTestSuiteServer_Fix2

Release 10.5

GWM_10.4_wMTestSuiteDesigner_Fix2

GWM_10.4_wMTestSuiteCommonLib_Fix2

GWM_10.4_wMTestSuiteServer_Fix2

Release 10.3

GWM_10.1_wMTestSuiteDesigner_Fix3

GWM_10.1_wMTestSuiteServer_Fix3

GWM_10.2_wMTestSuiteDesigner_Fix1

GWM_10.2_wMTestSuiteCommonLib_Fix1

GWM_10.2_wMTestSuiteServer_Fix1

Release 10.2

GWM_10.1_wMTestSuiteDesigner_Fix1

5.0 Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Release 10.3

- GWM-124
  Issues with webMethods code coverage HTML report rendering.
  Unit Test Framework allows integration of the Code Coverage HTML report with continuous integration build tools. However, following issues exist with code coverage rendering:
  - HTML report of Code Coverage does not have a summary section.
  - Certain widgets do not render correctly when hosted in Jenkins.
  - The web report is not compatible with Internet Explorer version 11.
  This issue is now fixed.

- GWM-125
  Issues with generating Code Coverage report from the executed tests.
  Unit Test Framework supports generating Code Coverage report from the executed tests. However, following issues exist with generating Code Coverage report from the executed tests.
  - Tests are reported under unrooted test tree in Junit view.
  - Test that is run from the Code Coverage Configuration dialog fails with exception.
  - Code coverage report is not generated correctly for mocked services.
  - Test execution with disabled mocked services does not update the configuration.
  This issue is now fixed.

Release 10.0

- GWM-12
  Pipeline compare, where service output is compared with a predefined expected output, fails to assert two structures, if it contains "com.wm.util.Table" objects. These objects are used in SAP adapter backend.
  This issue is now fixed.

- GWM-12

Mock adapter service of SAP template fails during execution. During the execution, mock adapter service of SAP template with predefined pipeline that contains "com.wm.util.Table" object, fails with NotSerializableException.
This issue is now fixed.

- GWM- 18
  Even though the license validation is optional during the installation of Unit Test Framework from Command Central, the installation fails if the license file is not provided.
  This issue is now fixed.

6.0　Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.7

- Added a new topic "Viewing Mock Event Details" in the Unit Test Framework Help to describe the wM Code Coverage view.

Release 10.3

- Environment details are updated.

- "Headless Execution" is renamed as "Continuous Integration" and added new topic "Configuring a Test Suite Executor".

- Properties under "Coverage Analysis in Headless Mode" are updated.

Release 10.2

- A new chapter Code Coverage Analysis is added to the webMethods Unit Test Framework Help document, which describes the support for recording and analyzing flow steps and map actions executed during a test launch.

Release 9.12

- Working with WmTestSuite guide was renamed to Unit Test Framework. All the occurrences of WmTestSuite were replaced by Unit Test Framework in the document.

Release 9.9

- Working with WmTestSuite 2.2.1 was introduced which describes how to install, design, and execute test cases using WmTestSuite.

7.0　Terminology Changes

A release is listed in this section only if changes occurred in that release.

Release 9.12

Old Term	New Term
WmTestSuite	Unit Test Framework

8.0   Added, Removed, Deprecated, or Changed Items

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 10.11

Added Item	Description
Code Coverage preferences	Advanced preferences that control the behavior of code coverage executions in Test Suite.

Release 10.7

Added Item	Description
Viewing mock events report	This feature allows you to view the details of all the mock events that are created during test execution.

Release 10.2

Added Item	Description
Code coverage analysis	This feature allows you to record and analyze which flow steps and map actions of your flow service(s) are executed during a test launch.
Custom Junit runner	A custom runner specific to Unit Test Framework is added along with supporting Ant build script. This allows batch execution of multiple Test Suites over a server session and provides a better HTML reporting.

Ignore namespace prefix	Output Comparison now allows ignoring the namespace prefix from the service results.

Release 10.1

Added Item	Description
Generating Test Suites using Service Execution Results	Test Suite allows you to generate tests from the details of recently run services present in the Result view.

Changed Item	Description
Unit Test Framework preference is replaced by the default Integration Server definition.	Integration Server preferences in Designer describe the connection to for Test Suite. In Designer, the Test Suite Server preference has been replaced by the default Integration Server definition specified in Integration Server preferences.

9.0   Copyright Information

10.0   Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the TECHcommunity website to access additional articles, demos, and tutorials, technical

information, samples, useful resources, online discussion forums, and more.

GWM-RM-1011-20211015

Software AG Universal Messaging 10.11 Readme

October 2021

This file contains important information you must read before using Software AG Universal Messaging 10.11. You can find system requirements, user documentation, and installation and upgrade instructions on the Documentation website at https://documentation.softwareag.com/ or the Tech Community website at https://techcommunity.softwareag.com/. At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0   Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

2.0   Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

- NUM-16844
  The main pages of the Javadoc and API documentation for C++ and C# included in the 10.11 GA release do not have tabs for Main Page, Related Pages, Packages, and Data Structures.
  The issue affects the index.html pages in the
  SoftwareAG_directory\UniversalMessaging\doc\cplus|dotnet|java directory.
  Instead, you can access the API documentation from the index.html page in the
  SoftwareAG_directory\UniversalMessaging\doc directory or use the links in the *Reference Guide* in the Universal Messaging web help.

- NUM-16519 (Memory leak in JMX durable connection handling and JMX cannot be properly disabled.)
  The current JMX implementation can result in the following issues:
  - JMX not working properly for various JMX beans
  - Memory leaks in some JMX bean structures
  - Non-fatal exceptions in the logs
  - JMX objects staying active even when JMX is disabled
  There is currently no workaround for these issues.

- NUM-14533 (UM log messages using LOG level are logged with ERROR level when using Logback.)
  When Universal Messaging is configured to use Logback as the logging framework, many of the server start-up messages in the server's nirvana.log file will be written with status ERROR. This happens due to a limitation in Logback that does not provide usage of custom log levels. Therefore, Universal Messaging messages logged with LOG level are translated to ERROR level when Logback is used.
  There is no workaround for this issue.

- NUM-10210 (UM instance manager crashes if instance name is too long.)
  The Universal Messaging instance manager tool may crash when run on Windows with an instance name longer than 42 characters, although the instance may still be created.
  The only workaround is to use a shorter instance name.

- NUM-7839 (If an exclusive asynchronous durable is created, closed, and then re-subscribed immediately, it is possible for the client to receive an exception that the subscriber is already bound.)
  The issue occurs because the session disconnected operation does not wait for all resources to be cleaned. If a client waits for a while before the second subscription, all resources on the server are

cleaned so the subscription is successful, but there is no way currently to ensure the exact time at which everything is cleaned.

- NUM-6147 (P2P hidden channel appearing)
  When upgrading an installation from 9.10, a channel with the name "-p2p/serviceinfo" may be visible within the namespace of Universal Messaging. This channel can safely be removed because it is an artifact of a deprecated and now removed feature, P2P. If not removed, it will have no adverse effect on Universal Messaging.

- Shared memory drivers are currently not supported on HP-UX systems.
  There is currently no workaround for this issue.

3.0   Usage Notes

This section provides any additional information you need to work with the current release of this product.

- Note that after you create a server instance you cannot change the server instance name or the realm name. When you create the server instance, the server instance name is set to the realm name by default. Previously, it was possible to do that by modifying the RNAME server Java system property. This functionality has been removed.

- In version 10.11 and higher, Universal Messaging client, non-admin sessions in an active/active cluster are always terminated if the server to which the client application connects is not in a good cluster state, that is, either master or slave state.
  Prior to Universal Messaging 10.11, you could use the DisconnectIfClusterFails flag to configure the behavior of client sessions when the server is not in a good cluster state. The DisconnectIfClusterFails flag has been removed in Universal Messaging 10.11.

- Now the persistent flag for durables is implicitly set by the API depending on whether the channel on which the durable exists supports persistence. Currently channels of type Mixed and Persistent support persistence. For these channel types, the flag is implicitly set to "true", while for all other channel types the flag defaults to "false".

- Universal Messaging enables both higher-release Java clients to connect to lower-release realm servers, and lower-release clients to connect to higher-release servers. For more information, see the section "Concepts > Deployment > Bi-directional Client and Server Compatibility" in the Universal Messaging documentation.

- The Java®-based components of Universal Messaging now support Java 8 and Java 11 virtual machines at run time.

- Behavior related to the "Pause Publishing" functionality:

  - Modifying JNDI entries is not possible while publishing is paused. This is because JNDI entries are stored in a Universal Messaging channel.

- Clients created using an API from a product release prior to version 10.1 will not throw the intended nSessionPauseException while publishing is paused. Java® publish/commit operations will throw nBaseClientException, whereas C++ and C# will throw nUnexpectedResponseException.

- If publishing is paused, editing a store in the Enterprise Manager will cause the events on the store to be lost, as they cannot be republished on the re-created store.

- The set of Windows Start Menu entries created for each Universal Messaging instance has been simplified. Starting with the 10.3 release, each instance has a Start Menu entry for an "Examples Command Prompt" and for a "Realm Server Command Prompt". The language-specific command prompt entries created by previous releases have been removed, and the documentation updated to describe how to configure the environment to develop with Universal Messaging using these languages.

- The server-side event filtering functionality in Universal Messaging does not support filtering of Google Protocol Buffer events using the "map" container type available in recent versions of the Google Protocol Buffer language.

- Many realm server configuration properties were removed in the 10.3 release. See the "Release Notes" 10.3 section in the Universal Messaging documentation for further details of these changes.

- The Command Central asset inventory commands that Universal Messaging supports in version 10.7 are a preview feature that is subject to change in the future without deprecation announcements. This preview has limited functions and is not intended for use in a production environment. If you want to provide feedback for this preview feature, go to the Command Central area on the Software AG Tech Community website.

4.0   Fixes Included in Each Release

For detailed information about available fixes that have been applied in current or previous product releases, go to the Knowledge Center on the [Empower website](#).

5.0   Resolved Issues

The current release resolves many functional, robustness and performance issues that arose in previous releases. This section provides a short summary of the resolved issues that may be of most interest to customers.

Release 10.11

- NUM-16257
  A NullPointerException occurs randomly in a Universal Messaging server when you try to publish events to a mixed channel.
  The issue is resolved.

- NUM-12799
  Out-of-memory errors, ConcurrentModificationException, and deadlock might occur when a user keeps connecting to and disconnecting from the same channel or queue.
  The issue is resolved.

- NUM-15853
  When initializing a Universal Messaging multiplex session, the connection times out and the Java Service Wrapper detects a deadlock condition.
  The issue is resolved.

- NUM-15694
  A deadlock might occur when a Universal Messaging realm is transitioning into a master state and trying to purge events from a JMS store. The issue was introduced with the DisconnectOnClusterFailure server-side flag functionality.
  The issue is resolved.

- NUM-15643
  Caching does not work for multi-file disk stores even when caching is enabled for the server instance.
  The issue is resolved. By default, caching is not enabled for multi-file stores. To store events from a channel with multi-file stores in the cache:

  1. When configuring the Universal Messaging server instance, set the EnableStoreCaching and EnableCaching server configurations to "true" and restart the server.
  2. When creating a channel with a multi-file store, set the "Enable Caching" channel storage properties to "true".

- NUM-15404
  Universal Messaging might shut down with an out-of-memory error.

In some cases, the Universal Messaging realm server might shut down with OutOfMemoryError. The issue occurs due to a combination of factors including the slow processing of data buffers from multiplexed sessions.
The issue is resolved.

▪ NUM-14767
Exclusive durables are not always properly recovered during cluster recovery.
The issue is resolved.

▪ NUM-16249
Synchronous durable topic or queue consumers that have low timeout values (tenths of milliseconds or less) and consume messages from a slave realm in a Universal Messaging cluster might stop consuming messages and log the following message in the nirvana.log file for the slave realm: "Cluster> Rolling back Event IDs to allocate for a local connection that no longer exists."
The issue is resolved. Universal Messaging now has the TimeoutSynchronousConsumerOnMaster advanced realm configuration property that you can use to switch the timeout procedure to the master realm in the cluster. Valid values for the new property are:
- true - switches the timeout procedure to the master realm in the cluster
- false (default) - the timeout procedure is run on a slave realm in the cluster
Important! You must configure the new property after updating all realms in the cluster to the fix version of the master realm.

▪ NUM-15340
During transactional publishing to Universal Messaging using a horizontal scalability (HS) session, the Universal Messaging client might report nUnexpectedResponseException.
When a client is performing transactional publishing of messages to Universal Messaging servers that are part of an HS URL, and one of the servers is stopped during the transaction, some messages might remain unpublished. In addition, the client returns nUnexpectedResponseException. The exception occurs because the transaction request does not receive a reply from the Universal Messaging server.
The issue is resolved. When a Universal Messaging server is stopped during multi-threaded transactional publishing, the transaction returns nSessionNotConnectedException, and the transaction can be retried.

▪ NUM-16364
Universal Messaging fails to start automatically after migration using a Command Central composite template.
The server writes a NullPointerException to the nirvana.log file. You can start the server only from the Command Central web user interface.
The issue is resolved.

▪ NUM-14901
Exporting or importing a realm configuration into XML results in missing or incomplete join details.
When exporting or importing realm configurations from Enterprise Manager or using the "nexportrealm" or "nimportrealm" code samples, one of the following issues occurs:

- The exported XML file does not include any information about the remote joins.
- The join entries in the exported XML file do not include the details of the remote realm, which incorrectly represents the join as local.
- The information about the remote joins does not get imported.

The issues are now resolved.

- NUM-14412
Connecting nodes in a Universal Messaging cluster might fail when you use the VIA list of an interface to configure access control list (ACL) entries for cluster communication.
The issue is resolved.

Release 10.7

- NUM-10799 (Uninstallation may not remove UM Windows service.)
Windows services created during or after installation of Universal Messaging may not be removed when the product is uninstalled. Users should check whether any such services still exist after uninstallation and manually remove them if so, using the Windows Services control panel.
The issue is now resolved.

- NUM-9489 (JMS API allows creation of multiple exclusive durables with the same name.)
Since the 9.12 release, the JMS Session.createDurableSubscriber allows creating more than one exclusive durable subscriber with the same name, with no exception thrown or other indication that this has occurred.
The issue is now resolved. Exclusive durables are now bound to synchronous subscribers.

- NUM-6873 (Out of order event after restarting shared durable receiver)
Disordering of events can occur when re-starting a shared durable subscriber with unacknowledged events using the queued shared durable implementation.
A workaround for this is to ensure that the "Fanout Config -> SyncQueuePublisher" realm configuration property is set to false. This however may cause excess events to build up on server queues in scenarios where consumers do not keep up with publishers.
Note that for a Universal Messaging delivery as part of a webMethods bundle, the configuration property defaults to false anyway.
The issue is now resolved.

Release 10.5

- NUM-10743 (MQTT QoS 2 connections are not downgraded to QoS 1)
  Universal Messaging doesn't support MQTT QoS 2 and will automatically downgrade client connections to QoS 1.
  This issue is resolved.

- NUM-11606 (Universal Messaging status shown as ERROR in CCE)
  Command Central displays an ERROR run-time status for a clustered Universal Messaging server when you replace interfaces on one or more of the realm servers in the cluster from outside Command Central.
  When you monitor a Universal Messaging realm server that is part of a cluster in Command Central, and you add a new interface and remove the previously active interface on one or more of the realm servers in the cluster from outside Command Central (for example, in Enterprise Manager), Command Central displays an ERROR status for the monitored realm and also displays offline cluster members until Platform Manager is restarted.
  The issue is resolved.

- NUM-11965 (Universal Messaging cluster formation may take too long to reform)
  Logic for purging events from a multi-file store is now optimized. Previously, events were read twice from disk although this was not really needed.
  The issue is resolved.

- NUM-11971 (NSPS connection from DotNet to UM)
  C# clients were not able to connect to NSPS interfaces using SASL authentication.
  The issue is resolved.

- NUM-12285 (Selectors starting with % sign are not parsed correctly)
  An error was thrown when parsing a selector which starts with the string "%_". This was an unhandled case in the code, which is now corrected and this scenario is working properly.
  The issue is resolved.

- NUM-12300 (Batch consumption for serial durable consumers does not use the allowed batch size)
  Serial consumers did not correctly consume messages in batches even when there was a large backlog of events. For example, if the batch size was 50, a serial consumer could receive only 2 or 3 messages in a single batch instead of all 50.
  The issue is resolved.

Release 10.4

- NUM-10669 (Channels and queues are not sorted in the EM tree)
  The Universal Messaging Enterprise Manager previously did not display newly added channels or queues in alphabetical order.
  The issue is resolved.

- NUM-10754 (UM Tools for manipulation of JMS artifacts fail when used with authentication)
  The issue is that beside the usual connection which is properly supported for authentication, there is a JNDI connection required where credentials were hardcoded. The credentials provided via the command line are now also used by the JNDI connection.
  The issue is resolved.

- NUM-10872 (Enterprise Manager slows down while editing channels or queues)
  Previously, when editing channels or queues in the Enterprise Manager, the processing became slower after each save operation. When you edited channels or queues nested in several containers (folders) in the Enterprise Manager, the time for saving your changes increased with each save operation.
  The issue is resolved.

- NUM-10944 (Batch Purge performance)
  Event purge performance has been improved in the case where there is an indexed durable (Shared or Serial) attached to a store.

- NUM-10945 (Problem when editing a queue in Enterprise Manager)
  Editing a queue in the Universal Messaging Enterprise Manager could previously cause some events on the queue to be lost.
  The issue is resolved.

- NUM-11166 (Cluster manager doesn't throttle events when queue becomes big)
  Previously, in inter-cluster communication, one node could send events faster than the receiving node could process them. This could lead to an out of memory exception.
  Now if the event queue becomes too big, the receiving node will throttle.

- NUM-11381 (Universal Messaging C# client only supports secure connection TLS 1.0 and SSL 3.0 protocols)
  This issue is now resolved. The Universal Messaging C# client now also supports TLS 1.1 and TLS 1.2 protocols.

Release 10.3

- NUM-10389 (Possible memory leak when deleting channels.)
  A memory leak of cached Google Protocol Buffer definitions that could be triggered by deleting channels from the Universal Messaging realm server has been resolved.

- NUM-10317 (JAVA_HOME environment variable not tailored correctly on Windows.)
  The JAVA_HOME environment variable was not being correctly tailored to point to the installed Java Virtual Machine when opening one of the Universal Messaging command prompts from the Windows Start Menu. The variable will now be set correctly.

- NUM-10313 (Enterprise Manager hangs after 10 minutes.)
  The Universal Messaging Enterprise Manager tool could hang after a period of time when connected to a realm server under heavy load. This issue has been resolved.

- NUM-9719 (AMQP/JMS mapping header mismatch.)
  The AMQP to JMS mapping supported by Universal Messaging has been updated to include some additional mappings defined in the latest updates to the AMQP specification.

Release 10.2

- NUM-9143 (It is not possible to import a realm configuration exported from UM 10.1.)
  Previous releases allowed realm configurations containing clustered Simple and Transient channels to be imported even though these configurations are unsupported. The import tooling has been updated to detect such invalid configurations and allow automatic upgrading of these channels to Mixed type if requested by the user.

- NUM-9326 (UM's SPM should set connection name for admin connection.)
  The Software AG Platform Manager (SPM) plugin for Universal Messaging will now set the "connection name" property when making an administrative connect to the Universal Messaging server. This allows easier identification of the clients connecting to a particular server.

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Release 10.11

- *Enterprise Developer's Guide for Python* has been removed.

- The Scheduling documentation in the *Administration Guide* has been removed.

- A new section, "Handling Multiple Connections", has been added to the *Operations Guide*. It provides information about how to handle multiple connections both on the client side and server side, and how to resolve some related issues that you might encounter.

- The information about using Prometheus in Universal Messaging has been moved from the *Concepts* guide to the section "Monitoring Containers" in the *Operations Guide*.

Release 10.4

- The documentation set has been extended to include a new *Operations Guide*. This guide contains information on standard procedures related to the smooth running of the Universal Messaging system. The guide covers daily operations, special operations, monitoring, troubleshooting, as well as other active and proactive tasks.

Release 10.3

- The *Universal Messaging Clustering Guide*, which was previously released as a PDF file complementing the product documentation set, has now been incorporated into the *Universal Messaging Concepts Guide*.

- Detailed documentation of the AMQP (Advanced Message Queueing Protocol) implementation in Universal Messaging has been added to the product documentation set.

- The differences in functionality available through the Universal Messaging management UIs in Enterprise Manager and Command Central have been documented.

Release 10.2

In previous releases of the documentation, the terms "named object" and "durable subscription" were used to mean the same thing. In this release all use of "named object" has been dropped in favor of the terms "durable subscription" or just "durable".

Release 9.12

The description of how to use Command Central to perform administrative tasks on Universal Messaging has moved from the Command Central documentation set to the Administration Guide of the Universal Messaging documentation set.

7.0   Terminology Changes

See the *Release Notes* document in the Universal Messaging documentation.

8.0   Added, Removed, Deprecated, or Changed Items

See the *Release Notes* document in the Universal Messaging documentation.

9.0   Added, Removed, Deprecated, or Changed Parameters

See the *Release Notes* document in the Universal Messaging documentation.

10.0   Added, Removed, Deprecated, or Changed APIs

See the *Release Notes* document in the Universal Messaging documentation.

11.0 Copyright Information

12.0 Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the Tech Community website to access additional articles, demos and tutorials, technical information, samples, useful resources, online discussion forums, and more.

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