

webMethods Service Development 10.5 Readme

October 2019

This file contains important information you must read before using webMethods Service Development 10.5. 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.

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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](#).

- WED-8515
The Resource monitoring service property is missing from the Transient error handling property group for MQTT triggers.
There is no work around for this issue.

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-8516
Designer does not support the creation of a flat file schema using a sample file for fixed length record parser type with record delimiter option.
There is no workaround for this issue.
- WED-8515
The Resource monitoring service property is missing from the Transient error handling property group for MQTT triggers.
There is no workaround for this issue.
- 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, following issues exist with this functionality for Adapter elements:
 - Sometimes, comparing two adapter services of 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 fail 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.
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.

- 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.

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

- 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 Ctrl+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 10.5

- Service Development Help contains a new chapter, "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	<p>Durable subscription or durable.</p> <p>As of Universal Messaging version 10.2, the term <i>named object</i> has been replaced with <i>durable subscription</i> or its abbreviated form <i>durable</i>.</p> <p>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.</p>

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 10.5

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.
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.
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.

Added Item	Description
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

Web services implementation introduced in Integration Server 7.1.

Replacement, if any

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

Path to Base Path

Description

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	<ul style="list-style-type: none">- 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	<p>Designer provides the TRY, CATCH, and FINALLY flow steps to assist failure handling in flow services</p> <p>Additionally, Designer provides a new context menu option called "Transform to > Try Catch Step / Try Finally Step" for SEQUENCE flow step.</p> <p>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.</p>
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

Creating an IS document type from a file in webMethods Content Service Platform

Replacement, if any

None. The webMethods Content Service Platform is no longer available.

Release 10.1

Added Item

Support for REST V2 resources

Description

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	<p>The REST Resource Configuration page of the Properties dialog box for a selected service option has been removed.</p> <p>An alternate option is provided through the creation of new REST V2 assets.</p>

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	<p>The default processing mode for JMS triggers and webMethods messaging trigger is now changed from Serial to Concurrent.</p> <p>The value for 'Max execution threads' is changed from 10 to 1.</p>
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.

Release 9.10

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

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10.0 Support

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