

# Software AG Command Central 9.12 and Software AG Platform Manager 9.12 Readme

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This file contains important information you must read before using Software AG Command Central 9.12 and Software AG Platform Manager 9.12. 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 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.

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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](#).

The following issues are resolved in Command Central 9.12 Fix 1:

- CCE-2553  
In Command Central, adding a new installation of Platform Manager on a Windows operating system does not install the C++ runtimes.  
The issue is resolved.
- CCE-2556  
In the Command Central CLI, the export composite template operation does not work without specifying the accept header.  
The behavior is incorrect, because the export of composite templates should work through a GET request and not require specifying any additional parameters.  
The issue is resolved.
- SPM-3689  
In Command Central, updating a product mirror repository without specifying a list of specific artifacts fails.  
When updating an existing product mirror repository by adding artifacts for another operating system or from a different source repository, the update operation fails.  
The issue is resolved.

## 3.0 Usage Notes

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

- The syntax of the “runtimeComponentId” argument of the “sagcc get monitoring state” CLI command is incorrectly documented in the Software AG Command Central Help as “[runtimeComponentId=componentid]”.  
The correct syntax of the argument is “[componentId]”. For example, to retrieve the monitoring data for the run-time component with ID “OSGI-SPM”, specify the component ID as follows:  
sagcc get monitoring state OSGI-SPM --format xml --server http://rubicon2:8092/spm --password secret

### ***Command Central and Platform Manager***

- You can use composite templates to migrate the following products from version 9.8 and 9.9 to version 9.10 or higher:
  - Integration Server

- My webMethods Server
- Process Engine
- Task Engine
- Software AG Common Runtime
- Trading Networks
- Universal Messaging
- You cannot provision the following Software AG products using Command Central:
  - Adabas Products
  - ApplinX
  - Entire Net-Work
  - EntireX
  - Event Replicator Target Adapter
  - MashZone
  - Natural Products
  - NaturalONE
  - OneData
  - Optimize for SAP
  - Presto Business Analytics
  - Process Performance Manager
  - Tamino XML Server
  - Web Services Stack
- 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
- You cannot install products with version 9.7 or lower using the “cc exec provisioning products install” command.
- CCE-4795  
 With Command Central templates, you can use the “templates: patches:” section (supported in Command Central 10.2 and higher) for a Platform Manager node with version 9.12 only when the following fixes and products are installed on this node:
  - SUM 8.2.1.0041-1593 9.8.0.0079-4269 ( or later)
  - SPM 9.12 fix 18 or later and its required fixes:
    - wMFix.SPMShared;version=9.12.0.0018
    - wMFix.SDRepository;version=9.12.0.0003
    - wMFix.SUMApi;version=9.12.0.0007
- SPM-1815  
 Command Central cannot manage configuration instances that have alias names and instance IDs containing non-ASCII characters.  
 When a configuration instance contains an alias name with non-ASCII characters, Platform Manager cannot process the alias name correctly. As a result, Command Central cannot manage the configuration instance.  
 Use an alias name that is unique for the instance or component and can be included in a user-friendly URL. The only valid characters in an alias name are ASCII characters, which include numbers, underscore (\_), dot(.), and a hyphen (-).
- SPM-2091  
 When starting Platform Manager, the startup log contains a number of false errors, for example: “2014-01-27 17:27:49.706 PST (Osgi ) [Platform.Logger.bundle-log] ERROR: [org.eclipse.equinox.ds:1.4.100.v20130515-2026 (224)] Could not bind a reference of component com.softwareag.platform.management.template.impl.TemplateServiceImpl. The reference is: Reference[name = IFixServicePr, interface = com.softwareag.fixinstall.spm.api.IFixServiceProvider, policy = dynamic, cardinality = 0..1, target = null, bind = setFixService, unbind = unsetFixService]”  
 The behavior occurs because of a bug in Eclipse equinox. For more information, see the Eclipse bug report for Eclipse equinox Bug ID 402750.  
 There is currently no workaround for this issue.

## 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 9.10*

- CCE\_9.10\_Core\_Fix3
- CCE\_9.10\_CCommon\_Fix3
- CCE\_9.10\_WebUI\_Fix3
- CCE\_9.10\_SPMplugin\_Fix3
- CCE\_9.10\_CLI\_Fix3

#### *Release 9.9*

- CCE\_9.9\_Core\_Fix6
- CCE\_9.9\_CCommon\_Fix6
- CCE\_9.9\_WebUI\_Fix6
- CCE\_9.9\_SPMplugin\_Fix6
- CCE\_9.9\_CLI\_Fix6

#### *Release 9.8*

- CCE\_9.8\_Core\_Fix10
- CCE\_9.8\_CCommon\_Fix10
- CCE\_9.8\_WebUI\_Fix10
- CCE\_9.8\_SPMplugin\_Fix10
- CCE\_9.8\_CLI\_Fix10

#### *Release 9.7*

- CCE\_9.7\_Core\_Fix8
- CCE\_9.7\_CCommon\_Fix8

- CCE\_9.7\_WebUI\_Fix8
- CCE\_9.7\_SPMplugin\_Fix8
- CCE\_9.8\_CLI\_Fix8

#### *Release 9.6*

- CCE\_9.6\_Core\_Fix7
- CCE\_9.6\_CCCommon\_Fix7
- CCE\_9.6\_WebUI\_Fix7
- CCE\_9.7\_SPMplugin\_Fix7
- CCE\_9.6\_CLI\_Fix7

#### *Release 9.5*

- CCE\_9.5\_SP1\_Core\_Fix5
- CCE\_9.5\_SP1\_CCCommon\_Fix5
- CCE\_9.5\_SP1\_WebUI\_Fix5
- CCE\_9.5\_SP1\_CLI\_Fix5

### ***Platform Manager***

#### *Release 9.10*

- SPM\_9.10\_Core\_Fix3
- SPM\_9.10\_SPMCommon\_Fix3

#### *Release 9.9*

- SPM\_9.9\_Core\_Fix6
- SPM\_9.9\_SPMCommon\_Fix6

#### *Release 9.8*

- SPM\_9.8\_Core\_Fix10
- SPM\_9.8\_SPMCommon\_Fix10

### *Release 9.7*

- SPM\_9.7\_Core\_Fix8
- SPM\_9.7\_SPMCommon\_Fix8

### *Release 9.6*

- SPM\_9.6\_Core\_Fix7
- SPM\_9.6\_SPMCommon\_Fix7

### *Release 9.5*

- SPM\_9.5\_Core\_Fix5
- SPM\_9.5\_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.

### ***Command Central and Platform Manager***

#### *Release 9.9*

- SPM-2472  
When Command Central and Platform Manager connect to the Empower website to download products and fixes via a proxy server, in Command Central you configure the proxy server details for the Platform Manger component that connects to Empower. However, some of the Command Central functions disregard the Command Central proxy configuration. The following list describes the functions that do not take into account the proxy configuration completely or support only specific proxy configuration:
  - When creating bootstrap installer images, Command Central uses the OSGI-SPM proxy configuration of the installation with alias "local" and supports only HTTP, HTTPS, and SOCKS proxy configuration.
  - When applying templates on a target installation to install products or fixes, Command Central uses the OSGI-SPM proxy configuration of the target installation and supports only HTTP, HTTPS, and SOCKS proxy configuration.
  - When using the Command Central command line interface commands to list the content of fixes on the Empower website, Command Central does not use the proxy configuration details.
  - When using the Command Central command line interface provisioning commands to install fixes on a target installation from the Empower website, Command Central does not use the proxy

configuration.

The issue is resolved.

### *Release 9.8*

- CCE-1417  
When bootstrapping the complete distribution of Platform Manager, Command Central is also installed.  
The complete distribution of Platform Manager includes Platform Manager, Update Manager, the Command Central command line interface, and all Platform Manager plug-ins. However, when bootstrapping the complete distribution, Command Central is also installed.  
The issue is resolved.
- CCE-1429  
When using Command Central to apply the "um-layer" composite template for a cluster environment, the template does not create product instances.  
The issue is resolved.

### *Release 9.7*

- SPM-2348  
In Command Central, applying a template with configuration results in an exception.  
In Command Central, when applying a template that contains configuration, the job for the apply operation returns an Error status. The exception occurs because the configuration data for the ports in the new installation does not match the port configuration data in the template with configuration. This causes the Tomcat connectors for ports to reset when you apply a template with configuration for the first time.  
The issue is resolved.
- CCE-1389  
In Command Central, when applying a default snapshot template, the template does not create default product instances.  
The issue is resolved. The default snapshot templates now create default instances for managed products.
- CCE-1205  
After installing the is-bpm default template, the Business Rules and Monitor run-time components are not available in the Command Central inventory, even after restarting Platform Manager.  
The issue is resolved.

### *Release 9.6*

- SPM-1553  
Updating the license file in Command Central can produce a license for the wrong product and/or version.  
When using Command Central to update the license file for a Software AG product, it is possible to successfully update the license file for one Software AG product with the license for another



Software AG product, or update a license for the correct Software AG product but for a different version. Command Central reports the update as being successful, however, the updated products will not be able to start. This behavior occurs because Command Central does not validate the product and its major version when updating the license file.

This issue is resolved. Command Central now validates the product and its corresponding major version when updating the license file.

- SPM-1353  
When Platform Manager or Broker Server is using a non-English locale, Platform Manager throws an exception when you try to monitor the Platform Manager or Broker Server. This issue occurs because of the numeric data format difference between English and non-English languages. The issue is resolved.

### *Release 9.5*

- SPM-1368  
Platform Manager cannot read or update My webMethods Server SMTP settings when My webMethods Server is running on Derby.  
When My webMethods Server is configured to use the embedded Derby database, the "mws getconfig" command cannot load any configuration files while My webMethods Server is running. This behavior prevents access to the My webMethods Server email.properties file, and causes COMMON-SMTP configuration read and update operations from Platform Manager to fail with the error "Internal Error processing Platform Manager request". This error occurs in the Command Central web user interface and the command line interface.  
The issue is resolved.
- SPM-1640  
With Platform Manager, executing the "cc get monitoring runtimestate" command on HP-UX fails with an error.  
Executing the "cc get monitoring runtimestate" command on HP-UX, returns UnsatisfiedLinkError. The error occurs because reporting the "CPU load KPI" fails with the current UnixOperatingSystemMXBean implementation on HP-UX.  
The issue is resolved. Now Platform Manager retrieves the run-time state KPIs successfully after running the "cc get monitoring runtimestate" command on HP-UX. CPU KPIs are not reported for HP-UX.

## 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 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”)

### *Release 9.9*

- Command Central and Platform Manager now have one release readme, named “Software AG Command Central and Software AG Platform Manager Readme”.
- Added a new topic about “Bootstrapping a Command Central Installation”. To access the topic from the Command Central online help, you must install Command Central 9.9 Fix 1.
- Added the “Installing and Uninstalling Fixes” topic.
- Updated the “Managing Users, Groups, and Roles” topic with LDAP-related changes.
- In the “Repository Management” topic, added a new section about creating, refreshing, and updating mirror repositories.
- Updated the “Managing Product License Reports” section to include information about aggregate monthly reports.
- In the “Java Service Wrapper” topic, added the “Configuring Java System Properties” section.
- Updated the provisioning topics with information about provisioning enhancements, such as viewing the status of a composite template apply job and bootstrapping Platform Manager over the OpenSSH service.
- Updated the monitoring topics with information about monitoring enhancements, for example consistent status reporting for run-time components.
- Added the “Using Command Central to Publish Events” section that replaces the section about using NERV.
- Removed the “Cloud Factory Services Overview” topic from the Command Central Help.
- The following product plug-ins for Platform Manager have added new sections:
  - Universal Messaging (“Universal Messaging Properties Configuration”)
  - EntireX Broker (“Administering webMethods EntireX Broker”)
  - Event Routing (“Administering Event Routing”)

- Optimize (“Administering Optimize Analytic Engine”)

### Release 9.8

- Following are major content changes in Software AG Command Central Help (online and PDF format):
  - In the “Template-based Provisioning” topic, added a new section about “Provisioning Environments”.
  - In the “Template Commands” topic, added information about the new composite template commands.
  - Updated the “Setting Outbound Authentication” and “Security Credentials” topics with information about using trusted authentication.
  - Added the “Working with Configurations that Include Passwords” topic to describe how to use shared secret password.
  - Added details about the syntax and usage of the product provisioning (in “Provisioning Products and Fixes Commands”) and list repositories commands (in “Repositories Commands”).
  - Added details about “Managing License Manifests” and using the license manifest commands.
  - Added the “Using Command Central to Manage Landscapes with Lower Versions” section.
  - In the “Universal Messaging Server Instance Management” section, added the following new parameters and relevant examples how to manage Universal Messaging Instances using the Universal Messaging instance management commands:
    - NumEnterpriseManager
    - NumTemplateApplications
    - instance.DataDir
- In the *Software AG Command Central Help* PDF guide, added:
  - The “Administering Terracotta” section.
  - A new appendix that lists the Command Central functions and types of configuration supported for different product versions. The appendix contains a reference section for each product that has a Platform Manager plug-in.

### Release 9.7

- The *webMethods Command Central* online help is renamed to *Software AG Command Central Help*.
- The *Software AG Command Central Help* guide replaces *webMethods Command Central Help* and *webMethods Command Central and Platform Manager Command Reference*.

- *Software AG Command Central Help* (online and PDF format) has been restructured to streamline and group together information on tasks that you perform with Command Central and Platform Manager. All major tasks are now under the “Working with Command Central and Platform Manager” topic.
- The following lists major content changes in *Software AG Command Central Help* (online and PDF format):
  - In the “Administering Installations” topic, added new sections about “Adding Installations with the Add Installation Wizard”, “Provisioning Bootstrap Installers Commands”, and “Provisioning Products and Fixes Commands”. The “About Administering Installations” topic is updated with information about bootstrapping Platform Manager installations.
  - Updated the “Securing the Command Central Landscape” topic.
  - In the “Repository Management” topic, updated the “Repositories Commands” section.
  - In “The Java Service Wrapper” topic, added the “Configuring the JVM in Command Central” section.
  - In the “Understanding Product-specific Administration” topic, added the “Cloud Factory Services Overview” section.

### *Release 9.6*

- The Command Central online help is a help set that you access from the Command Central web user interface. The Command Central online help now includes information how to configure, manage, and administer Command Central and Platform Manager, using the Command Central web user interface, command line tool, and REST API.
- The following lists major content changes in *webMethods Command Central Help* (online and PDF format):
  - In the “Command Central Overview” topic, added new sections about “Template-based Provisioning” and “Instance Management of Installed Products”.
  - In the “Using the Command Central Web User Interface” topic, added new information about “Accessing Command Central”.
  - In the “Configuring OSGi Profiles” section of the “Securing the Command Central Landscape” topic, added new section about “Port Authentication”.

- Renamed the “Managing Command Central Licenses” topic to “Managing Command Central Licenses and Product License Reports” and expanded the topic with new sections about how to create and manage product license reports.
- In the “Managing Users, Groups, and Roles” topic, added changes in the “Using Internally Defined User and Group Information” and “Using JASS with Command Central” sections.
- In the “Administering Product Lifecycle” topic, added a new section on “Viewing Product Logs”.
- The following are new topics:
  - “The Java Service Wrapper”
  - “Repository Management”
  - “Provisioning Using Templates”
  - “Configuring Integration Server”
- *Getting Started with the Command Central REST API* is a new guide.
- The following lists new content added in webMethods Command Central and webMethods Platform Manager Command Reference (online and PDF format):
  - Instance Management Commands
  - Repositories Commands

### *Release 9.5*

- The Command Central online help is a new help set that you access from the Command Central web user interface.

Two new chapters are added to *webMethods Command Central* and *webMethods Platform Manager Command Reference*:

- License Reports Commands
- Template Commands

## **7.0 Terminology Changes**

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

## Command Central

### Release 9.8

Old Term	New Term
n/a	Composite Template
n/a	Layer
Template	Snapshot Template

## Platform Manager

### Release 9.6

Old Term	New Term
IntegrationServer-ENGINE	IntegrationServer- <i>instanceName</i>
IS	IS- <i>instanceName</i>

## 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 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	<p data-bbox="812 226 1393 331">Installs products of release 9.8 or higher. You must consider the following when using this wizard:</p> <ul data-bbox="812 373 1464 1186" style="list-style-type: none"> <li data-bbox="812 373 1464 478">▪ Use mirror or master repositories. The product installation wizard does not support image repositories.</li> <li data-bbox="812 520 1464 823">▪ 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.</li> <li data-bbox="812 865 1464 970">▪ Checking for dependencies is not supported for older releases, which is indicated by a warning.</li> <li data-bbox="812 1012 1464 1075">▪ Installing language packs is supported only for installations of release 9.12.</li> <li data-bbox="812 1117 1464 1180">▪ Use the Software AG Installer to install products of release 9.7 and earlier.</li> </ul>
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	<ul style="list-style-type: none"> <li>Improved performance and memory usage.</li> <li>A single WADL document for the Command Central REST API services. The document is located at <code>http(s)://&lt;ccehost&gt;:&lt;cceport&gt;/cce/application.wadl</code></li> </ul>

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	<ul style="list-style-type: none"> <li>- New custom options for the Command Central bootstrap installer: -D and -H</li> <li>- Migrating an existing Command Central installation</li> </ul>
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	<p>The following enhancements were added in the composite templates:</p> <ul style="list-style-type: none"> <li>- use composite templates to migrate existing environments</li> <li>- customize migration options by adding an optional “migration” section in a composite template definition</li> <li>- define shell actions that a composite template executes at different points in the apply composite template operation</li> </ul>
“environment.mode” parameter	<p>Added in the “cc exec templates composite apply” command to specify whether the composite template will provision or migrate the environment.</p>
Migrate products using composite templates and the Command Central CLI	<ul style="list-style-type: none"> <li>▪ Migrate Integration Server, My webMethods Server, and Universal Messaging using composite templates and the CLI composite template commands.</li> <li>▪ Migrate Integration Server, My webMethods Server, and Universal Messaging instances using the CLI administration commands.</li> </ul>
Universal Messaging JNDI management	<p>Configure Universal Messaging connection factories and destinations in a JNDI namespace using the Command Central web user interface or command line interface.</p>

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

## Release 9.9

Added Item	Description
generic-layer	Added a new default composite template to provision multiple nodes using an external snapshot template, which is created from an existing installation using Command Central.
Configuration types	Added the COMMON-LDAP configuration type.
Fix installation web user interface	Installing and unstalling fixes and support patches remotely.
LDAP configuration properties	Configuring LDAP properties for Command Central and the products managed by Command Central. You configure LDAP properties using the Command Central web user interface and command line tool.
Mirror repositories	Creating and updating mirror repositories, using the Command Central web user interface and repository commands that you run in the Command Central command line tool.
Aggregate license reports	Generate aggregate monthly reports of the Command Central landscape, showing installed instances on an hourly/daily basis.
Java system properties configuration	Configure the Java system properties of managed products, such as My webMethods Server (including Task Engine), Integration Server, and Command Central using the COMMON-SYSPROPS configuration type for product instances.

Added Item	Description
Template-based provisioning enhancements	<p>The following enhancements were added in the composite templates:</p> <ul style="list-style-type: none"> <li>- Reference to external snapshot templates that the composite template applies for a given layer</li> <li>- Using the <code>\${node.host}</code> and <code>\${node.alias}</code> variables inside inline templates to create dynamic content that is host/alias specific</li> <li>- Reference to Java system properties in the <code>template.yaml</code> definition</li> <li>- Updating existing product instances when a composite template is re-applied</li> <li>- Combining an input properties files with additional parameters when running the <code>apply composite template</code> command</li> <li>- Specifying the path to the target installation directory in UNIX format that works for both UNIX and Windows hosts</li> <li>- Applying composite templates layer by layer</li> <li>- Returning <code>WARNING</code> status when a sub-job in a composite template <code>apply</code> job fails</li> </ul>
Consistent status reporting	<p>Reporting the status of run-time components after a lifecycle operation consistently in Command Central. The status on the summary and details screens is the same status reported by the run-time component.</p>
Command Central bootstrap installer	<p>Installing Command Central using a single executable installer package, downloaded from Empower.</p>
Support for the OpenSSH service on Windows	<p>Bootstrapping Platform Manager remotely over the OpenSSH service.</p>
Creating or editing a JDBC connection pool for Integration Server using Command Central	<p>The Available Connections Warning Threshold and Waiting Thread Threshold Count properties can be set when creating or editing a JDBC connection pool through Command Central.</p>

Added Item	Description
Universal Messaging properties configuration	Configuring a Universal Messaging server instance by editing the configuration parameters using the Command Central web user interface or command line interface.

Changed Item	Description
cc get monitoring state	The command now supports additional arguments.

Deprecated Item	Replacement, if any
cc get monitoring	cc get monitoring state

### *Release 9.8*

Added Item	Description
bpms	Default composite template. Provisions a typical BPMS environment.
is-layer	Default composite template. Provisions a standalone local or remote Integration Server, or an Integration Server cluster with multiple hosts.
mws-layer	Default composite template. Provision a standalone local or remote My webMethods Server, or a My webMethods Server cluster with multiple hosts.
reference	Default composite template. Contains DSL documentation and reference details.
repos	Default composite template. Contains the public master product and fix repositories version 9.5 or higher.
spm-layer	Default composite template. Bootstraps a single local or remote Platform Manager, or a number of remote Platform Managers on UNIX hosts via an SSH connection.
tc-layer	Default composite template. Provisions a standalone local or remote Terracotta Server or a two-server master/slave cluster on remote machines.

Added Item	Description
um-layer	Default composite template. Provisions a standalone Universal Messaging realm instance or a two-instance cluster on local or remote machines.
Composite template commands	Command Central command line interface commands that you use to import and apply composite templates.
Product provisioning commands	Command Central command line interface commands that you use to install and uninstall products.
Filtering product repository content	Command Central command line interface commands that you use to search and filter the contents of a product repository.
Trusted authentication	Added trusted authentication mode when administering run-time components in OSGI profiles with version 9.8.
Shared secret	Shared secret that Platform Manager uses when retrieving or updating run-time component configuration settings that contain passwords.
License reports based on license manifests	Creating and managing license reports for an installation, based on license manifest files.
Platform Manager plug-ins	<p>Added Platform Manager plug-ins for the following run-time components:</p> <ul style="list-style-type: none"> <li>▪ Terracotta</li> <li>▪ Task Engine and WmTask Client</li> <li>▪ Event Routing</li> <li>▪ My webMethods user interface for Optimize</li> </ul>

### *Release 9.7*

Added Item	Description
um-all	Default template with products. Contains a full distribution of Universal Messaging Server with a default 'umserver' instance and default HTTP port 9000.

Added Item	Description
tc-min	Default template with products. Contains a minimal Terracotta Server.
mws-min	Default template with products. Contains a default My webMethods Server instance with HTTP port 8585 and an embedded database.
mws-bpm	Default template with products. Contains a My webMethods Server instance for Business Process Management.
is-min	Default template with products. Contains a default Integration Server instance with HTTP port 5555 and an embedded database, but without a license file.
is-esb	Default template with products. Contains an Integration Server instance for Enterprise Service Bus.
is-bpm	Default template with products. Contains an Integration Server instance for Business Process Management.
fix-all	<p>Note: The is-bpm template is not supported on installations with version 9.5 and 9.6, because Business Rules requires providing a license during the installation.</p> <p>Default template with fixes. Contains all fixes available for a product from the Empower Product Support Website or from an image archive.</p>
broker-bin	<p>Default template with products. Contains only the Broker binary files, without a Broker server instance.</p> <p>Note: When installing broker-bin on an installation with version 9.5, Broker causes Platform Manager to shut down.</p>

Added Item	Description
Configuration types	<p>Added the following new configuration types:</p> <ul style="list-style-type: none"> <li>▪ COMMON-CLUSTER</li> <li>▪ COMMON-LOCAL-USERS</li> <li>▪ COMMON-MEMORY</li> <li>▪ COMMON-PROXY</li> <li>▪ COMMON-COMPONENT-ENDPOINTS</li> <li>▪ IS-CONSUMER-ENDPOINTS</li> <li>▪ IS-PROVIDER-ENDPOINTS</li> <li>▪ IS-FILEPERMISSION</li> </ul>
Install Platform Manager Remotely	<p>“Add Installation Wizard” in the Command Central web user interface that you use to add existing installations and bootstrap Platform Manager installations remotely.</p>
Internal User Management	<p>Web user interface page that you use to manage internal users and update passwords.</p>
Filtering fix repository content	<p>Added Command Central command line interface commands that you use to search and filter the contents of a fix repository.</p>
Fix provisioning commands	<p>Added Command Central command line interface commands that you use to install and uninstall fixes.</p>
Platform Manager plug-ins	<p>Added Platform Manager plug-ins for the following products:</p> <ul style="list-style-type: none"> <li>▪ Monitor</li> <li>▪ Business Rules</li> </ul>
Component Search Attributes	<p>Added arbitrary name/value attributes for instances and components that that you can use as search query parameters. You use the Command Central web user interface and command line interface to add, update, and delete the arbitrary attributes.</p>



Added Item	Description
Jobs View	Added Jobs view in the Command Central web user interface to monitor long running operations.

Deprecated Item	Replacement, if any
cc add repository fixes with node_alias	cc add repository fixes
cc add repository products with node_alias	cc add repository products
cc delete repository fixes with node_alias	cc delete repository fixes
cc delete repository products with node alias	cc delete repository products
cc exec repository fixes discover with node_alias	cc exec fixes discover
cc exec repository products discover with node_alias	cc exec repository products discover
cc list repository fixes with node_alias	cc list repository fixes
cc list repository products with node_alias	cc list repository products

### Release 9.6

Added Item	Description
Create and apply template	Web user interface page that you use to create or apply templates.
Centralized repository management	Web user interface page that you use to create image repositories, register master repositories, edit repository details, and delete repositories.
License report management	Web user interface page that you use to create, download, and delete product license reports.
Integration Server configuration types	Web user interface page that you use to configure Integration Server properties.
Log access	Web user interface page that you use to view and download product logs.
Credentials for remote Platform Managers	Web user interface page that you use to set different credentials for remote Platform Managers.

Added Item	Description
SSL-related command options	<p>Command options to configure SSL settings using the Command Central command line tool:</p> <ul style="list-style-type: none"> <li>▪ --configuration-file</li> <li>▪ --ssl-truststore-file</li> <li>▪ --ssl-trust-all-hosts</li> <li>▪ ssl-truststore-password</li> </ul>
--force	The option forces the execution of a delete command without prompting for confirmation of the requested operation.

### Release 9.5

Deprecated Item	Replacement, if any
accept	outputFormat Specifies the format for the returned data.
format	outputFormat Specifies the format for the returned data.
mediatype	inputFormat Specifies the content type of the input data for a command.

## Platform Manager

### Release 9.12

Added Item	Description
Platform Manager plug-ins	<ul style="list-style-type: none"> <li>▪ Platform Manager plug-in for ActiveTransfer</li> <li>▪ Platform Manager plug-in for PPM</li> </ul>
Trusted authentication	By default, Platform Manager uses trusted authentication with Command Central.

## 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.

## Release 9.9

Added Item	Description
Platform Manager plug-ins	Added Platform Manager plug-ins for the following run-time components: <ul style="list-style-type: none"><li>- EntireX Broker</li><li>- Optimize Analytic Engine</li></ul>

  

Changed Item	Description
cc get monitoring state	The command now supports additional arguments.
cc list monitoring alerts	The command now supports additional arguments.

  

Deprecated Item	Replacement, if any
cc get monitoring	cc get monitoring state

## Release 9.8

Added Item	Description
Shared secret	Shared secret that Platform Manager uses when retrieving or updating run-time component configuration settings that contain passwords.

Added Item	Description
Platform Manager plug-ins	<p>Added Platform Manager plug-ins for the following run-time components:</p> <ul style="list-style-type: none"> <li>▪ Terracotta</li> <li>▪ Task Engine and WmTask Client</li> <li>▪ Event Routing</li> <li>▪ My webMethods user interface for Optimize</li> </ul>

*Release 9.7*

Added Item	Description
New configuration types for run-time components	<p>Added the following new configuration types:</p> <ul style="list-style-type: none"> <li>▪ COMMON-CLUSTER</li> <li>▪ COMMON-LOCAL-USERS</li> <li>▪ COMMON-MEMORY</li> <li>▪ COMMON-PROXY</li> <li>▪ COMMON-COMPONENT-ENDPOINTS</li> <li>▪ IS-CONSUMER-ENDPOINTS</li> <li>▪ IS-PROVIDER-ENDPOINTS</li> <li>▪ IS-FILEPERMISSION</li> </ul>
Platform Manager plug-ins	<p>Added Platform Manager plug-ins for the following products:</p> <ul style="list-style-type: none"> <li>▪ Monitor</li> <li>▪ Business Rules</li> </ul>

Deprecated Item	Replacement, if any
<p>cc add repository fixes with node_alias  cc add repository products with node_alias  cc delete repository fixes with node_alias  cc delete repository products with node_alias</p>	<p>Repositories are centrally managed through Command Central instead of locally on each Platform Manager.</p>

Deprecated Item	Replacement, if any
cc exec repository fixes discover with node_alias	
cc exec repository products discover with node_alias	
cc list repository fixes with node_alias	
cc list repository products with node_alias	

### Release 9.6

Added Item	Description
Added new configuration types for the Integration Server runtime component.	<p>The following configuration types were added for Integration Server:</p> <ul style="list-style-type: none"> <li>▪ COMMON-LOGGERS</li> <li>▪ COMMON-VARS</li> <li>▪ COMMON-WMMESSAGING</li> <li>▪ IS-DEFAULT-WMMESSAGING</li> <li>▪ IS-QUIESCEPORT</li> <li>▪ IS-RESOURCES</li> </ul>

### Release 9.5

Changed Item	Description
--expected-values	The option can include a value with a logical OR operator. Use   as a separator for the logical OR operator.

Deprecated Items	Replacement, if any
accept	outputFormat Specifies the format for the returned data.
format	outputFormat Specifies the format for the returned data.
mediatype	inputFormat Specifies the content type of the input data for a command.

## 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 9.9*

Changed API	Description
Command Central REST API	<ul style="list-style-type: none"> <li>▪ Enhanced the following services: <ul style="list-style-type: none"> <li>▪ Repository</li> <li>▪ Provisioning</li> <li>▪ Monitoring</li> <li>▪ License Tools</li> </ul> </li> </ul>

#### *Release 9.8*

Changed API	Description
Command Central REST API	<ul style="list-style-type: none"> <li>▪ Added the Template Composite service that you use to manage composite templates of environments.</li> <li>▪ Added the Template Snapshot service that you use to manage snapshot templates of installations.</li> </ul>

## Release 9.7

Changed API	Description
Command Central REST API	<ul style="list-style-type: none"><li>▪ Added Provisioning service that you use to:<ul style="list-style-type: none"><li>▪ Bootstrap Platform Manager locally and remotely</li><li>▪ Install and uninstall fixes</li></ul></li><li>▪ Enhanced the following services:<ul style="list-style-type: none"><li>▪ Configuration</li><li>▪ Repository</li><li>▪ Job Manager</li><li>▪ Lifecycle</li><li>▪ Inventory</li></ul></li></ul>

## Release 9.6

Changed API	Description
Command Central REST API	<ul style="list-style-type: none"><li>▪ Added an Instance Management service that you use to create, update and delete an instance of an installed product that supports multiple instances under the same installation directory.</li><li>▪ Enhanced the following services:<ul style="list-style-type: none"><li>▪ Repository Service</li><li>▪ Log Access Service</li><li>▪ Template Service</li></ul></li></ul>

## **Platform Manager**

### Release 9.9

Changed API	Description
Platform Manager REST API	Enhanced the Monitoring service

## Release 9.7

Changed API	Description
Platform Manager REST API	Enhanced the following services: <ul style="list-style-type: none"><li>▪ Configuration</li><li>▪ Repository</li><li>▪ Job Manager</li></ul>

## Release 9.6

Changed API	Description
Platform Manager REST API	<ul style="list-style-type: none"><li>▪ Added an Instance Management service that you use to create, update and delete an instance of an installed product that supports multiple instances under the same installation directory.</li><li>▪ Enhanced the following services:<ul style="list-style-type: none"><li>▪ Repository Service</li><li>▪ Log Access Service</li></ul></li></ul>

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