

Software AG Command Central 10.2 and Software AG Platform Manager 10.2 Readme

April 2018

This is an innovation release. Innovation releases have a much shorter support cycle than standard releases. To learn more, please visit <http://empower.softwareag.com/innovationrelease/>.

This file contains important information you must read before using Software AG Command Central 10.2 and Software AG Platform Manager 10.2. 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.....	1
2.0	Known Issues.....	2
3.0	Usage Notes.....	4
4.0	Fixes Included in Each Release.....	4
5.0	Other Resolved Issues.....	7
6.0	Documentation Changes	8
7.0	Terminology Changes	11
8.0	Added, Removed, Deprecated, or Changed Items.....	12
9.0	Added, Removed, Deprecated, or Changed APIs.....	27
10.0	Copyright Information.....	29
11.0	Support.....	30

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 10.2 Fix 1:

- CCE-3573
Some validation fields and messages are not aligned in the Command Central web user interface. The Command Central web user interface does not properly align the red validation boxes for user input fields. Also, validation messages do not specify the maximum number of characters for the "Key Alias" field of the security configuration and the "Repository name" field when connecting to a repository.
The issue is resolved.
- CCE-4007
Command Central does not include support patches when exporting fixes from a mirror repository to an image repository.
When you export a mirror repository into an image repository, Command Central ignores support patches and the exported fix image repository is not the same as the source fix mirror repository.
The issue is resolved.
- CCE-4015
In the Command Central web user interface, when you go to Configuration > License Keys for a run-time component and no license keys are available, Command Central displays "Never" in the Expiration Date column.
The issue is resolved. If no license keys are available, now the Expiration Date column is empty.
- CCE-4031
The Command Central CLI `--wait-for-cc` and `--retry` options always require a value and do not fall back on their expected default behavior when no value is specified. Also, the `--sync-job` option does not work correctly when `--retry`, `--wait-for-cc`, and `--expected-values` are included in the command.
The issue is resolved. See the Usage Notes for the `--wait-for-cc`, `--retry`, and `--sync-job` options in the Command Central Help for details about how to use the options.
- CCE-4042
In the Command Central CLI, when the `--sync-job` option is used in a command to apply a template or execute a lifecycle operation, Command Central creates a job with custom status. However, Command Central ignores the custom status and does not give it priority.
The issue is now resolved. If the custom status is ERROR, the sync job finishes with status ERROR.
- CCE-4044
When adding an asset repository if you do not specify a name, or specify an invalid name, Command Central returns the error message with ID CCECAME0034 without text.
The issue is resolved. Now Command Central returns the correct message text.

- CCE-4047

When using a Command Central composite template to install fixes or support patches, if you specify an empty value in the fix and patches parameters:

templates:

fixes: []

patches: []

Command Central attempts to install ALL fixes available in the repository.

The issue is now resolved. When the fixes and patches parameters are empty, Command Central does not install any fixes or patches.

- CCE-4049

When you run the CLI list assets command to list the assets to uninstall for the OSGI-IS_default-WmBusinessRules run-time component, Command Central does not list any assets. The issue occurs because Command Central attempts to list assets that do not have child assets, which causes the list operation to fail.

The issue is now resolved.

- CCE-4068

In Command Central, when executing cross-host migration using composite templates, the URL metadata for a run-time component might not get updated.

The issue is now resolved. The URL metadata for a run-time component gets updated if the node URL is changed.

- CCE-4094

When applying a composite template with DSL version 1.1 and an inline template includes "fixes: ALL", but no support patches, Command Central installs all fixes applicable for the target installation. The correct behavior is to install only the fixes applicable for the products defined in the inline template. Example:

myTemplate:

fixes: ALL

products:

productA:

productB:

The issue is now resolved. With DSL version 1.1, when "fixes: ALL" and no patches are included in an inline template, Command Central installs only the fixes applicable for the products specified in the inline template.

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 assets and creating stacks are preview features that have limited functions and are:
 - Not intended for use in a production environment
 - Subject to change in the future without deprecation announcements

If you want to provide feedback on both preview features, go to the Command Central area in the Software AG TechCommunity.

- 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

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 10.1

- CCE_10.1_Core_Fix8
- CCE_10.1_CCCommon_Fix8
- CCE_10.1_WebUI_Fix8

- CCE_10.1_SPMplugin_Fix8
- CCE_10.1_CLI_Fix8

Release 10.0

- CCE_10.0_Core_Fix6
- CCE_10.0_CCommon_Fix6
- CCE_10.0_WebUI_Fix6
- CCE_10.0_SPMplugin_Fix6
- CCE_10.0_CLI_Fix6

Release 9.12

- CCE_9.12_Core_Fix16
- CCE_9.12_CCommon_Fix16
- CCE_9.12_WebUI_Fix16
- CCE_9.12_SPMplugin_Fix16
- CCE_9.12_CLI_Fix16

Release 9.10

- CCE_9.10_Core_Fix9
- CCE_9.10_CCommon_Fix9
- CCE_9.10_WebUI_Fix9
- CCE_9.10_SPMplugin_Fix9
- CCE_9.10_CLI_Fix9

Release 9.9

- CCE_9.9_Core_Fix10
- CCE_9.9_CCommon_Fix10
- CCE_9.9_WebUI_Fix10
- CCE_9.9_SPMplugin_Fix10
- CCE_9.9_CLI_Fix10

Release 9.8

- CCE_9.8_Core_Fix15
- CCE_9.8_CCCommon_Fix15
- CCE_9.8_WebUI_Fix15
- CCE_9.8_SPMplugin_Fix15
- CCE_9.8_CLI_Fix15

Platform Manager

Release 10.1

- SPM_10.1_Core_Fix8
- SPM_10.1_SPMCommon_Fix8

Release 10.0

- SPM_10.0_Core_Fix6
- SPM_10.0_SPMCommon_Fix6

Release 9.12

- SPM_9.12_Core_Fix16
- SPM_9.12_SPMCommon_Fix16

Release 9.10

- SPM_9.10_Core_Fix9
- SPM_9.10_SPMCommon_Fix9

Release 9.9

- SPM_9.9_Core_Fix10
- SPM_9.9_SPMCommon_Fix10

Release 9.8

- SPM_9.8_Core_Fix15
- SPM_9.8_SPMCommon_Fix15

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.

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 10.2

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”)

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.

7.0 Terminology Changes

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

Command Central

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

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>instance_name</i>
IS	IS- <i>instance_name</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 10.2

Added Item	Description
Command Central Docker Builder	An official Docker image of Command Central on Docker Store: https://store.docker.com/images/software-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	<ul style="list-style-type: none">- 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
<pre>dslVersion: 1.1</pre>	<p>A new parameter in the composite template declaration to indicate the DSL version.</p>
<pre>nodes: <envType>: aliasMapping: policy: INDEX prefix: \${node.alias.prefix}</pre>	<p>With DSL 1.1, a new <code>aliasMapping:policy</code> section to enable the mapping of node alias to hosts. When <code>policy: INDEX</code>, the <code>prefix</code> parameter specifies a custom prefix to include in the indexed node alias.</p>
<pre>provision: <envType>: infrastructure: hosts: [host1, host2, host3]</pre>	<p>With DSL 1.1, when <code>aliasMapping:policy: INDEX</code>, the first layer in each <code>provisioning:envType</code> section is defined as an infrastructure layer that includes the <code>hosts</code> parameter.</p>
<pre>aliases: [my_node_3,my_node_4] indexes: [3,4]</pre>	<p>With DSL 1.1, when <code>policy: INDEX</code>, each of the layers in <code>provision</code> (except the infrastructure layer) includes the <code>aliases</code> (list of indexed node aliases) or <code>indexes</code> (list of index numbers) parameters.</p>
<p>Reference parameters for node aliases</p>	<p>You can refer to a node alias from an inline template in the <code>templates</code> section using one of the parameters listed in the reference parameters for node aliases table in “Templates” in the Command Central Help.</p>
<pre>patches: [patchKey1, patchKey2]</pre>	<p>With DSL 1.1, a new section in <code>templates</code>, in which you specify a list of support patches that you want to install on top of installed fixes.</p>
<pre>"target/licenseKey": "*_<productCode>_<majorVersion>.*_\${os.platform}"</pre>	<p>The <code>"target/licenseKey": "\${alias}"</code> parameter in the <code>templates:<templateAlias>:licenses</code> section of the composite template supports using wildcard characters when specifying the license key alias.</p>

Added Item	Description
<code>{--sync-job -j}</code>	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.
<code>{--retry -y}[count]</code>	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 <code>--wait-for-cc</code> option.
<code>{--wait-for-cc -t} [seconds]</code>	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.
<code>templates:fixes:</code>	With DSL 1.1 the following changes apply for the <code>templates:fixes</code> section of the composite <code>templates</code> : <ul style="list-style-type: none"> You cannot list support patches in <code>fixes:</code> <code>fixes:ALL</code> installs all fixes applicable for products in the inline template and their dependencies.
<code>sagcc list license tools keys</code>	Added the following parameters: <ul style="list-style-type: none"> <code>[release=releaseNumber]</code> <code>[aliasFilter=filter]</code> <code>[excludeExpired=true false]</code> <code>[nodeAlias=nodealias]</code>

Release 10.1

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	<p>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.</p> <p>You can find sample micro templates at https://github.com/SoftwareAG/sagdevops-templates</p>
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	<table border="1"> <thead> <tr> <th>Old menu item</th> <th>New menu item</th> </tr> </thead> <tbody> <tr> <td>PDF</td> <td>License Inventory PDF</td> </tr> <tr> <td>XML</td> <td>License Inventory XML</td> </tr> <tr> <td>JSON</td> <td>License Inventory JSON</td> </tr> <tr> <td>Base&Peak PDF</td> <td>Product Usage PDF</td> </tr> <tr> <td>Base&Peak XML</td> <td>Product Usage XML</td> </tr> <tr> <td>Base&Peak JSON</td> <td>Product Usage JSON</td> </tr> </tbody> </table>	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
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 platform: platformCode userName: password:	installer: bootstrapInstallerFileName installer: bootstrapInstallerFileName credentials: credentialsAlias
In repositories/fix and repositories/product: userName: password:	credentials: credentialsAlias

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.

Release 10.0

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	<p>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.</p> <p>Also, now the default value of the "excludes" parameter under migration/backup is "*.log".</p>
Fix Repository ID	<ul style="list-style-type: none">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 <code>fixRepository=repo_ID</code> 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.
<code>\${environment.mode}</code>	Added migration settings that you can define for a product instance in the composite template definition.
<code>\${migration.type}</code>	
<code>\${src.node.host}</code>	
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	<p data-bbox="813 222 1393 331">Installs products of release 9.8 or higher. You must consider the following when using this wizard:</p> <ul data-bbox="813 369 1466 1186" style="list-style-type: none"> <li data-bbox="813 369 1466 478">▪ Use mirror or master repositories. The product installation wizard does not support image repositories. <li data-bbox="813 516 1466 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 data-bbox="813 861 1466 970">▪ Checking for dependencies is not supported for older releases, which is indicated by a warning. <li data-bbox="813 1008 1466 1075">▪ Installing language packs is supported only for installations of release 9.12. <li data-bbox="813 1113 1466 1186">▪ 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	<ul style="list-style-type: none"> Improved performance and memory usage. A single WADL document for the Command Central REST API services. The document is located at <code>http(s)://<ccehost>:<cceport>/cce/application.wadl</code>

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"> - 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	<p>The following enhancements were added in the composite templates:</p> <ul style="list-style-type: none"> - 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	<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"> ▪ 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	<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"> - Reference to external snapshot templates that the composite template applies for a given layer - Using the <code>\${node.host}</code> and <code>\${node.alias}</code> variables inside inline templates to create dynamic content that is host/alias specific - Reference to Java system properties in the <code>template.yaml</code> definition - Updating existing product instances when a composite template is re-applied - Combining an input properties files with additional parameters when running the <code>apply composite template</code> command - Specifying the path to the target installation directory in UNIX format that works for both UNIX and Windows hosts - Applying composite templates layer by layer - Returning WARNING status when a sub-job in a composite template apply job fails
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	Added Platform Manager plug-ins for the following run-time components: <ul style="list-style-type: none"> ▪ Terracotta ▪ Task Engine and WmTask Client ▪ Event Routing ▪ My webMethods user interface for Optimize

Platform Manager

Release 10.2

Added Item	Description
Platform Manager plug-ins	<ul style="list-style-type: none"> ▪ 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-JAVASYSPPROPS

Release 9.12

Added Item	Description
Platform Manager plug-ins	<ul style="list-style-type: none">Platform Manager plug-in for ActiveTransferPlatform 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.

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

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 10.2

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	<ul style="list-style-type: none">▪ Added the Stacks service that you use to create stacks and layers.▪ Enhanced the following services:<ul style="list-style-type: none">▪ 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

Release 9.9

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

Release 9.8

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

Platform Manager

Release 9.9

Changed API	Description
Platform Manager REST API	Enhanced the Monitoring service

10.0 Copyright Information

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