

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

**October 2021**

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

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

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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](#).

- CCE-7158  
Attempting to view the contents of a repository using the Command Central web user interface fails with the following error: "There is no repository to register". The issue occurs when the repository name contains a space.  
To work around this issue, list the repository contents using the "sagcc list repository content" CLI command.
- CCE-7143  
In the Jobs view of the Command Central web user interface, in some cases Platform Manager provisioning jobs with status COMPLETED have their progress bar at 95%.  
There is no workaround for this issue.
- CCE-7148  
Executing a cross-host migration in Command Central fails at the "Archive source node directory" step when the source installation contains one or more directories with spaces in the filepath. For example, the issue occurs when migrating an installation containing a Universal Messaging instance.  
To work around this issue, set the following Command Central server system property:  

```
com.softwareag.platform.management.client.template.composite.migrate.archive.source.command=cd %s && find . -type f %s %s | awk '{print "\\x22"$0"\\x22\'' > %s && %s cfm %s -C %1$s @%4$s
```
- CCE-7071  
In Command Central, when upgrading a stack or executing a dry run for a stack upgrade, the operation might fail with the following error message at the template validation step:  
"Un-handled internal server error. Internal error: handler not loaded for this platform (<platform>) caused by: com.softwareag.platform.management.common.exceptions.PlatformManagerException"  
To work around this issue, retry the operation.
- CCE-7156  
In the Command Central web user interface, when auto-creating stacks or creating stacks from scratch, the wizard does not list all possible releases in the "Product release" drop-down box.  
To work around this issue, use the following Command Central CLI commands and include the "release=<version>" argument to specify the release version for which to create the stack:
  - Auto-create stacks with the "sagcc create stacks" command.
  - Create stacks from scratch with the "sagcc create stacks auto" command.
- CCE-7144  
When upgrading Command Central, if you provide a password value for the "-p" argument that is different from the administrator user password of the source Command Central, the upgrade operation fails with an error message that does not describe what has caused the failure. The issue occurs because you should provide the administrator user password of the source Command

Central using the "-p" argument.  
There is no workaround for this issue.

## 3.0 Usage Notes

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

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

- Installing and uninstalling assets is a preview feature that has limited functions and is:
  - Not intended for use in a production environment
  - Subject to change in the future without deprecation announcements
- Beginning with release version 10.7, the Command Central Docker Builder is deprecated with no replacement.
- When you run the Command Central bootstrap installer for Windows and you want to specify a custom Administrator password that contains special characters, for example ampersand (&), you must encode the password to base64 format and use the `--base64-pass` argument instead of the `-p` argument. Software AG provides a tool for encoding passwords to base64 format. For more information about the tool, see <https://github.com/SoftwareAG/generic-tools/blob/master/README.md>.
- See the “Software AG Command Central Feature Support Matrix” on the documentation website for details about which Command Central functions are supported for each product release.
- You cannot create mirror repositories for the following operating systems:
  - LNX Linux RHEL and SLES x86
  - HP11 HP HP-UX PA-RISC
  - LNXS390X Linux RHEL and SLES IBM System z
  - AS400 IBM AS/400
  - WNT Microsoft Windows x86
- If you are using Command Central for the first time, you must accept the product license agreement from the Software AG Software Download Center on Empower before you can install products from the Empower Software AG repositories.
- Before you create a database component for a product with version 10.4 or higher, you must install the database scripts for that product. You can install database scripts using the `sagcc exec`

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

## 4.0 Fixes Included in Each Release

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

### ***Command Central***

#### *Release 10.7*

- CCE\_10.7\_Core\_Fix5
- CCE\_10.7\_WebUI\_Fix5
- CCE\_10.7\_CCE\_SPMplugin\_Fix5
- CCE\_10.7\_CLI\_Fix5

#### *Release 10.5*

- CCE\_10.5\_Core\_Fix12
- CCE\_10.5\_WebUI\_Fix12
- CCE\_10.5\_CCE\_SPMplugin\_Fix12
- CCE\_10.5\_CLI\_Fix12

#### *Release 10.4*

- CCE\_10.4\_Core\_Fix5
- CCE\_10.4\_WebUI\_Fix5
- CCE\_10.4\_CCE\_SPMplugin\_Fix5
- CCE\_10.4\_CLI\_Fix5

#### *Release 10.3*

- CCE\_10.3\_Core\_Fix14
- CCE\_10.3\_WebUI\_Fix14
- CCE\_10.3\_SPMplugin\_Fix14

- CCE\_10.3\_CLI\_Fix14

### *Release 10.2*

- CCE\_10.2\_Core\_Fix4
- CCE\_10.2\_WebUI\_Fix4
- CCE\_10.2\_CCE\_SPMplugin\_Fix4
- CCE\_10.2\_CLI\_Fix4

### *Release 10.1*

- CCE\_10.1\_Core\_Fix17
- CCE\_10.1\_CCommon\_Fix17
- CCE\_10.1\_WebUI\_Fix17
- CCE\_10.1\_CCE\_SPMplugin\_Fix17
- CCE\_10.1\_CLI\_Fix17

### *Release 10.0*

- CCE\_10.0\_Core\_Fix6
- CCE\_10.0\_CCommon\_Fix6
- CCE\_10.0\_WebUI\_Fix6
- CCE\_10.0\_CCE\_SPMplugin\_Fix6
- CCE\_10.0\_CLI\_Fix6

### *Release 9.12*

- CCE\_9.12\_Core\_Fix19
- CCE\_9.12\_CCommon\_Fix19
- CCE\_9.12\_WebUI\_Fix19
- CCE\_9.12\_CCE\_SPMplugin\_Fix19
- CCE\_9.12\_CLI\_Fix19

### *Release 9.10*

- CCE\_9.10\_Core\_Fix9
- CCE\_9.10\_CCCommon\_Fix9
- CCE\_9.10\_WebUI\_Fix9
- CCE\_9.10\_CCE\_SPMplugin\_Fix9
- CCE\_9.10\_CLI\_Fix9

## **Platform Manager**

### *Release 10.7*

- SPM\_10.7\_Core\_Fix5
- CC\_10.7\_Shared\_Fix5

### *Release 10.5*

- SPM\_10.5\_Core\_Fix12
- CC\_10.5\_Shared\_Fix12

### *Release 10.4*

- SPM\_10.4\_Core\_Fix5
- CC\_10.4\_Shared\_Fix5

### *Release 10.3*

- SPM\_10.3\_Core\_Fix14
- CC\_10.3\_Shared\_Fix14

### *Release 10.2*

- SPM\_10.2\_Core\_Fix4
- CC\_10.2\_Shared\_Fix4

### *Release 10.1*

- SPM\_10.1\_Core\_Fix17
- SPM\_10.1\_SPMCommon\_Fix17

### *Release 10.0*

- SPM\_10.0\_Core\_Fix6
- SPM\_10.0\_SPMCommon\_Fix6

### *Release 9.12*

- SPM\_9.12\_Core\_Fix19
- SPM\_9.12\_SPMCommon\_Fix19

### *Release 9.10*

- SPM\_9.10\_Core\_Fix9
- SPM\_9.10\_SPMCommon\_Fix9

## **5.0 Other Resolved Issues**

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

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

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

## **6.0 Documentation Changes**

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

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

#### *Release 10.11*

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

- “How to Get Templates for Upgrade”
- “Install or Upgrade Product Installations with Composite Templates”
- “Install or Upgrade Product Installations with Stacks”
- “Update Licenses on a Number of Nodes with Templates”

### *Release 10.7*

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

- You can search the product matrix table by product name and version.
- The product matrix table contains links to the individual product tables for configuration types, KPI types, migration types, etc., where such tables are available.

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

- The “Getting Started with Command Central” topic contains information that helps you understand, install, upgrade, and configure Command Central.
- The “Creating, Managing, or Upgrading Standalone Product Installations” topic includes topics all topics about creating, managing and upgrading product installations.
- The “Command Central GitHub Projects” topic includes all topics describing the GitHub projects related to Command Central.

### *Release 10.5*

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

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

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

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

- The “Command Central Developer Reference” topic is removed to make it easier to search for topics. The following topics are now top-level topics:
  - “Using the Command Line Interface”
  - “Configuring Command Central and Platform Manager”
  - “Introduction to Command Central REST API”

### **Release 10.4**

*Software AG Command Central Help* includes new topics about:

- “Options” (a new template section supported with DSL version 1.2)
- “Using HTTPS to Connect to Repositories”
- “Provisioning Database Scripts for Software AG Products”

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

### **Release 10.3**

For information about Command Central composite assets, see:

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

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

### **Release 10.2**

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

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

### **Release 10.1**

*Software AG Command Central Help* includes new topics about:

- “Working with Software Stacks” and “Stacks and Layers Commands”
- “Using Micro Templates”
- “Template Definition DSL Reference” (includes the DSL reference template and micro-template reference)
- “Provisioning Assets Commands” and “Repository Commands” (includes the asset repositories commands)

## Release 9.12

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

- The “Getting Started with Command Central” topic contains the information that helps you understand, install, and upgrade Command Central.
- All topics related to tasks that you can do from the Command Central web user interface to manage your landscape are streamlined and much of the information has been moved to the web user interface, where it appears in the form of instructions and tooltips.
- The “Automation and Template-based Provisioning” topic includes all topics about using and developing composite templates.
- The “Command Central Developer Reference” topic includes reference details about the Command Central CLI and REST API.

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

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

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

## Release 9.10

- The “Installing Command Central Using Bootstrap Installer” topic includes information about new custom options when running bootstrap installer and a section on migrating an existing Command Central installation using bootstrap installer.
- The “Provisioning Environments” topic includes sections that describe how to use composite templates to update or migrate product environments.
- The “Managing Database Components Using Command Central” is a new topic that describes how to create or migrate database schemas as part of provisioning or migration through a composite template.
- In the “Repository Management” topic, updated the sections about mirror repositories with information how to create, refresh, and update fix mirror repositories.
- The following product plug-ins for Platform Manager have added new sections:
  - Apama (“Administering Apama”)
  - Integration Server, My webMethods, and Universal Messaging (new sections about migrating product instances using the Command Central command line interface)
  - Universal Messaging (“JNDI Management”)

## 7.0 Terminology Changes

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

### **Command Central**

#### *Release 10.7*

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

#### *Release 10.5*

Old Term	New Term
n/a	Database micro template

#### *Release 10.3*

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

#### *Release 10.2*

Old Term	New Term
n/a	Indexed node alias

#### *Release 10.1*

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

## 8.0 Added, Removed, Deprecated, or Changed Items

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

# Command Central

Release 10.11

Added Item	Description
Custom administrator user passwords	<p>You must set a custom administrator user password when installing version 10.11 of some Software AG products, including Command Central and Platform Manager. For information about other Software AG products, see the release readme for the required products.</p> <p>When installing products using Command Central, you use the new ADMINISTRATOR credentials alias to provide a custom password for the administrator user.</p>
COMMON-CREDENTIALS-ADMINISTRATOR	<p>A new default instance of the COMMON-CREDENTIALS configuration type. Note that the ADMINISTRATOR credentials alias does not initially contain a password value. Before using the ADMINISTRATOR credentials for installing a product, you should edit the credentials and provide a strong password</p>
<pre>In layers:&lt;layerName&gt;: productAdministrator:   credentials: &lt;administratorCredentialsAlias&gt;   changeOnFirstLogin: true false sagcc exec security encrypt input</pre>	<p>New template section and parameters that specify the credentials alias for the default administrator user of the product and whether the product requires changing the administrator user password on the first login.</p> <p>The command encrypts user passwords for product configurations included in a properties file, using the environment or global shared secret configured in Command Central.</p>

Changed Item	Description
Install Products wizard	<p>When installing products using the Command Central web user interface, the Install Products wizard now has a Select Credentials step.</p> <p>If you are installing products with version 10.11 the Select Credentials step contains:</p> <ul style="list-style-type: none"> <li>• In the <b>Credentials</b> field, select the credentials alias to use for the default administrator user for the products you want to install. The default alias is "ADMINISTRATOR".</li> <li>• Select the <b>Force password change on the first product login</b> checkbox if the products you install require changing the administrator user password on the first login.</li> </ul> <p>If you are installing products with version 10.7 or lower, the Select Credentials step does not provide any configuration options.</p>
<pre>sagcc exec provisioning products install</pre>	<p>You can now provide the following arguments when installing products with version 10.11:</p> <pre>[administratorCredentials=&lt;credentialsAlias&gt;] [administratorCredentialsChangeOnFirstLogin ={true false}]</pre>

Changed Item	Description
Add Installation wizard	<ul style="list-style-type: none"> <li>• <b>Install Platform Manager remotely</b> is renamed to <b>Install Platform Manager</b> in the Bootstrap step of the wizard.</li> <li>• After you select <b>Install Platform Manager</b> in the Bootstrap step, you must now set the following fields: <ul style="list-style-type: none"> <li>○ In the <b>Installer</b> field, select the bootstrap installer to use for installing Platform Manager. Based on the installer you selected, Command Central will automatically set the operating system in the "Operating System" field.</li> <li>○ In the <b>Credentials</b> field, select the credentials alias to use for the Platform Manager administrator user.</li> <li>○ In the <b>SSH credentials</b> field, select the SSH credentials alias for the SSH user on the target machine.</li> <li>○ Click the <b>Advanced</b> button if you want to set a substitute user alias in the "Substitute user credentials" field or change the default SSH port number in the <b>Remote port</b> field.</li> </ul> </li> <li>• The Platform Mgr step is renamed to Connection.</li> </ul>
<pre>sagcc exec provisioning bootstrap nodes</pre>	<p>Now the command uses an input file specifying a Command Central bootstrap installer to install a Platform Manager node on a local or remote machine. The command has the following new arguments:</p> <pre>[isSecure={true false}] [credentialsAlias=&lt;credentialsAlias&gt;]</pre>

Deprecated Item	Replacement, if any
Application Platform support for Command Central	

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

Added Item	Description
Substitute user support	<p>You can now define a substitute user to:</p> <ul style="list-style-type: none"><li>• Install and start Platform Manager when bootstrapping Platform Manager on a remote machine using a template.</li><li>• Stop the source Platform Manager when migrating Platform Manager using a template.</li></ul> <p>To define a substitute user, use the <code>substituteUserCredentials</code> parameter in the <code>nodes: default: default: bootstrapInfo:</code> section of the template.</p>
Upgrading stacks	<p>In the Command Central web user interface, you can now upgrade software stacks with version 10.3 and higher. You can use stacks for the following upgrade types:</p> <ul style="list-style-type: none"><li>• <b>Overinstall</b> - upgrade to the same installation directory and has the same hosts and ports.</li><li>• <b>Side-by-side</b> - upgrade to a new installation directory on the same host with the same ports.</li><li>• <b>Cross-host</b> - upgrade to a new host with the same ports and the installation directory can have the same or a new value.</li></ul> <p>Each type of upgrade with the stack has a dedicated upgrade wizard. You can also do a dry run of the upgrade, which will only generate and validate the required migration templates. You can review the results of the dry-run job and check the templates before running the actual upgrade.</p>

Added Item	Description
<pre>sagcc exec stacks migrate</pre>	<p>The command upgrades product installations with version 10.3 and higher using a stack. Depending on the <code>migration.type=</code> argument, the command executes one of the following upgrade types:</p> <ul style="list-style-type: none"> <li>• Overinstall</li> <li>• Side-by-side</li> <li>• Cross-host</li> </ul>
<pre>sagcc list stacks migrate properties</pre>	<p>The command lists the required and optional migration properties for a stack.</p>
<pre>sagcc list stacks migrate status</pre>	<p>The command checks the migration status after a failed migration attempt with a stack. The command output also indicates whether Command Central generated any templates before the migration attempt failed.</p>
<pre>sagcc exec templates composite generate migration</pre>	<p>The command generates a migration template that includes the infrastructure data of the source Platform Manager nodes. Based on the <code>migration.type</code> argument, the command generates a template for the following upgrade types:</p> <ul style="list-style-type: none"> <li>• Overinstall</li> <li>• Side-by-side</li> <li>• Cross-host</li> <li>• Generic (for any of the supported upgrade types)</li> </ul>
<p>Automatic creation of stacks and layers</p>	<p>In the Command Central web user interface, you can now automatically generate stacks and layers from existing environments managed by Command Central. In the Auto-create stacks wizard you can select all environments and release versions, or a specific environment and version, for which Command Central will generate stacks.</p>

Added Item	Description
<code>sagcc create stacks auto</code>	The command generates product stacks with layers from existing environments managed by one Command Central automatically. You can also use the command to generate product stacks only for a specific environment, or only for product installations that have the same release version.
<code>sagcc update stacks alias</code>	The command updates the name of the specified stack.
<code>sagcc update stacks layers alias</code>	The command updates the name of the specified layer.
Export Infrastructure to Template wizard	In the Command Central web user interface, you can now export a Platform Manager instance from a managed installation to an infrastructure micro template. Command Central generates a template with the Platform Manager instance data, imports the generated template automatically, and creates a layer type definition for the template.
<code>sagcc exec provisioning assets install</code>	PREVIEW. The command installs assets with their dependencies from an asset repository into a target node.
<code>sagcc exec provisioning assets uninstall</code>	PREVIEW. The command uninstalls the specified assets from the specified node.
Installation reports	In the Command Central web user interface, you can now generate installation reports that contain detailed information for each installed product, such as the type of product installation (for example, development or production), and the number of installed and running product instances.
Displaying the version and location of the Command Central CLI	You can now display the version and location of the Command Central CLI by running the following CLI command: <code>sagcc --version</code>

Added Item	Description
<p>Support for strong key exchange methods for securing SSH connections</p>	<p>Command Central now supports the following strong key exchange methods, which are enabled by default (listed in order of priority): diffie-hellman-group14-sha256 (highest), diffie-hellman-group16-sha512, diffie-hellman-group18-sha512, diffie-hellman-group14-sha1 (lowest).</p>
<pre>com.softwareag.platform.management.client.remoteaccess.allowedkexmethods</pre>	<p>A server system property for OSGI-CCE that controls the list and priority of key exchange methods allowed by Command Central for securing remote SSH connections.</p>
<pre>verbose: true false</pre>	<p>New parameter in the <code>actions:</code> section of a template that indicates whether Command Central should include the standard output from the shell actions defined in the template in the Command Central logs.</p>

Changed Item	Description
sagcc exec templates composite generate	The command now generates an infrastructure micro template from the Platform Manager instance in an installation, or a migration template from an installed product instance using the new <code>options=INFRASTRUCTURE</code> argument.
Plus icon on the Stacks home page	From the plus icon on the Stacks home page in the Command Central web user interface, you can now select to “Auto-create stacks” or “Create a stack from scratch”.
Reports icon in Licensing > Reports in the Command Central web user interface	After clicking the plus icon, and clicking <b>Create License Manifest Report</b> .
Return codes from CLI command execution	The return codes that can result from executing a Command Central or Platform Manager CLI command have been updated.
Key exchange methods	The following key exchange methods are now disabled by default, because they are weak: <ul style="list-style-type: none"> <li>• diffie-hellman-group1-sha1</li> <li>• diffie-hellman-group-exchange-sha1</li> </ul>

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

**Deprecated Item****Replacement, if any**

License metering, including license reports and snapshot reports and all related CLI commands.

- `sagcc create license-tools reports snapshot`
- `sagcc delete license-tools reports snapshot`
- `sagcc delete license-tools reports snapshot <reportid>`
- `sagcc list license-tools reports snapshot`
- `sagcc get license-tools reports snapshot <reportid>`
- `sagcc get license-tools reports snapshot output PDF`
- `sagcc get license-tools reports snapshot output XML`
- `sagcc list license-tools reports`
- `sagcc list license-tools metering products`
- `sagcc get license-tools metering contracts licensekey`
- `sagcc list license-tools manifests contracts`

License manifest files and all related CLI commands.

- `sagcc add license-tools manifests`
- `sagcc delete license-tools manifests`
- `sagcc get license-tools manifests output xml`
- `sagcc list license-tools manifests`
- `sagcc list license-tools manifests content`

Removed Item	Description
Aggregated reports and all related CLI commands:	<p>The following commands are removed from the CLI:</p> <ul style="list-style-type: none"> <li>• <code>sagcc list license-tools reports aggregated</code></li> <li>• <code>sagcc add license-tools reports aggregated</code></li> <li>• <code>sagcc delete license-tools reports aggregated &lt;reportid&gt;</code></li> <li>• <code>sagcc delete license-tools reports aggregated</code></li> <li>• <code>sagcc exec license-tools metering</code></li> <li>• <code>sagcc get license-tools metering state</code></li> </ul>

## Release 10.5

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

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

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

Added Item	Description
<code>sagcc update stacks index</code>	Updates the position of the stack in the user interface by updating the stack index number.
<code>sagcc update stacks layers index</code>	Updates the position of the layer in the user interface by updating the layer index number.
Changed Item	Description
Automated migration	<p>The following Command Central configurations and data are now migrated when you upgrade Command Central:</p> <ul style="list-style-type: none"> <li>▪ Outbound SSL configuration</li> <li>▪ LDAP certificates</li> <li>▪ Command Central bootstrap installers</li> <li>▪ Customized Java system properties</li> </ul>
<pre>sagcc exec templates composite generate alias=&lt;templateAlias&gt; nodeAlias=&lt;nodeAlias&gt; runtimeComponentId=&lt;runtimeComponentId&gt; options=FIXES</pre>	The command now generates a template with fixes and patches parameters that list the installed fixes on the source installation if the source installation is version 10.5.
<code>sagcc list stacks</code>	The command now returns the index number of the stack, which indicates the position of the stack in the web user interface.
<code>sagcc list stacks layers</code>	The command now returns the index number of the layer, which indicates the position of the stack in the web user interface.
<code>sagcc delete stacks</code>	Added the <code>[deleteLayers={true false}]</code> argument that specifies whether layers from the stack will be deleted.
<code>sagcc delete stacks layers</code>	The command now does not allow deleting the infrastructure layer before deleting all other layers in the stack.
snapshot option	The <code>snapshot</code> template option that indicates whether to create a template from each source node is now set to <code>false</code> by default.

Removed Item	Description
CLI provisioning assets commands	<p>The following commands are removed from the CLI:</p> <ul style="list-style-type: none"> <li>▪ <code>sagcc exec provisioning assets install</code></li> <li>▪ <code>sagcc exec provisioning assets uninstall</code></li> <li>▪ <code>sagcc list provisioning assets supportedcomponents</code></li> </ul>

## Release 10.4

Added Item	Description
<code>dslVersion="1.2"</code>	Beginning with 10.4, Command Central supports DSL version 1.2, which includes a new section and new parameters.
<pre>options:   abortOnConfigFailure: true false   abortOnLayerStartupFailure: true false   forceRestartWhenDone: true false   startupLayers: true false skipOnTemplateError: true false</pre>	Supported only with DSL version 1.2. New section and parameters that modify how Command Central processes a template at the time of applying the template. See the Command Central Help for details about the new section and parameters.
<code>namePrefix: hexTimestamp   none</code>	New parameter in the <code>actions:</code> section of a template to indicate whether Command Central executes the action if applying the template fails with an ERROR status.
<code>sagcc list templates composite properties</code>	New parameter in the <code>actions:</code> section of a template to indicate whether Command Central adds a prefix to the names of action files created on the file system.
<code>sagcc get license-tools keys {-o --output} &lt;filename.zip&gt;</code>	The command retrieves a list of all environment properties defined in an <code>environments:env.type:</code> section in a template.
<code>sagcc get license-tools keys {-o --output} &lt;filename.zip&gt;</code>	The command retrieves the contents of all license key files that are added to the Command Central license key manager and adds them in a zip archive file.

Added Item	Description
<pre>sagcc list provisioning products uninstall dependencies</pre>	<p>The command returns a list of all products that depend on the specified product(s).</p>
<pre>sagcc list provisioning fixes uninstall dependencies</pre>	<p>The command returns a list of all fixes that depend on the specified fix(es).</p>
Changed Item	Description
<p>Monitoring of the apply job status for a template</p>	<p>If a sub-job of the main composite template apply job fails, the failure of the sub-job causes the main template apply job to fail with an ERROR.</p>
<p>Jobs view in the Command Central web user interface</p>	<ul style="list-style-type: none"> <li>▪ Only one Jobs view exists now, which includes all functionalities of the legacy Jobs view.</li> <li>▪ Navigation is improved.</li> <li>▪ The Jobs page provides a simplified view with all running jobs.</li> <li>▪ Error reporting is enhanced.</li> </ul>
<p>Optimizing run-time component lifecycle operations during the execution flow of composite template application on nodes with version 10.3 and higher</p>	<ul style="list-style-type: none"> <li>▪ By default, all run-time components are no longer restarted at the end of the composite template execution.</li> <li>▪ Run-time components are restarted during a layer application only if a configuration that requires a restart is applied in that layer.</li> <li>▪ All stopped components are started at the end of a layer application.</li> </ul>
<pre>sagcc exec templates composite generate</pre>	<p>The command generates a run-time micro template from an installed product instance using input parameters, imports the generated template automatically and creates a layer type definition for the template in the local Command Central installation. New arguments:</p> <ul style="list-style-type: none"> <li>▪ [options=CONFIGURATION] [options=INSTANCE] [options=PRODUCTS] [options=FIXES]</li> <li>▪ [createLayerType={true false}]</li> </ul>

Changed Item	Description
<pre>sagcc exec templates composite generate input</pre>	<p>The command generates a run-time micro template from an installed product instance using a template metadata file. In the template metadata file, you can filter which configuration properties of the product instance to include in the generated template. New argument:</p> <pre>[createLayerType={true false}]</pre>
<pre>sagcc exec templates composite apply &lt;templateAlias&gt; --sync-job -e &lt;expectedStatus&gt;</pre>	<p>The command sets a:</p> <ul style="list-style-type: none"> <li>▪ Non-zero exit code if the expected status value is not retrieved.</li> <li>▪ Zero exit code if the expected status value is successfully retrieved.</li> </ul>
<p>Template application failure</p>	<p>Based on the value of the new <code>abortOnConfigFailure</code> parameter, Command Central determines whether to stop applying a template after a product configuration fails to apply.</p>
<p>Encrypting properties in a custom <code>cc.properties</code> file</p>	<p>When you prefix a property in a custom <code>cc.properties</code> file with <code>@secure</code>, Command Central encrypts the value of the property after you run a CLI command that uses the custom <code>cc.properties</code> file.</p>
<p>LDAP connection validation</p>	<p>In the Command Central web user interface, you can now verify the LDAP connection using the credentials of a real LDAP user account, in addition to testing the LDAP connection with the technical user DN.</p>
<p>Connecting to repositories over HTTPS</p>	<p>Command Central can register a repository on the HTTP, HTTPS, or both ports based on the version of the Platform Manager installation, the repository type, and whether the HTTP and HTTPS ports are enabled. See the Command Central Help for details.</p>
<p><b>License reporting</b> field</p>	<p>Enhanced the <b>License reporting</b> field on the Overview tab for a product instance in the Command Central web user interface.</p>
<p><b>Licensing &gt; Reports</b></p>	<p>Streamlined the Licensing &gt; Reports page in the Command Central web user interface.</p>

Changed Item	Description
<pre>sagcc list administration product &lt;node_alias&gt; DatabaseComponentConfigurator database migrations db.type=db_type {product component}=productID componentID</pre>	<p>Not supported for local or remote nodes with version 10.4 or higher.</p>
<pre>sagcc list jobmanager jobs</pre> <p><b>command output</b></p>	<ul style="list-style-type: none"> <li>▪ Status As String column renamed to Status Description</li> <li>▪ The default output contains the following columns: ID, Status Progress, Description, Progress Description, Status Description.</li> <li>▪ If a custom status was set when the template execution job was completed, the command output displays the custom status and its description in the Status and Status Description columns.</li> <li>▪ If the template execution job is still in progress or it was completed with no custom status, the command output displays the system status and its description in the Status and Status Description columns.</li> <li>▪ The Duration and Links columns are removed from the default output. To display the columns, add the <code>properties=*</code> argument when running the command.</li> </ul>

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

### Release 10.3

Added Item	Description
Command Central composite assets	<p>Command Central exports configuration properties for Software AG run-time components as YAML templates.</p> <p>You can generate composite assets from YAML templates using:</p> <ul style="list-style-type: none"> <li>▪ Designer (to deploy to Integration Cloud)</li> <li>▪ Asset Build Environment</li> <li>▪ <code>sagcc get templates composite export templateAlias [--output   -o] filename.zip [--output-format   -f] application/vnd.sagcc.asset+zip</code></li> </ul> <p>You can store the Command Central composite assets in a local or remote Landscape Asset Repository (LAR) and deploy them on Software AG run-time components running on premise, or on webMethods Integration Cloud.</p>
<code>sagcc exec templates composite generate</code>	Generates run-time component configurations as a template YAML file.
<code>sagcc exec templates composite generate input</code>	Generates run-time component configurations as a template YAML file, based on an input template metadata file.
<code>application/vnd.sagcc.asset+zip</code>	Content type for Command Central composite assets.
<code>application/yaml</code>	Content type for YAML files.
<code>sagcc exec repository mirror validateContent</code>	Validates the integrity of a mirror repository against the source repository.

Added Item	Description
<code>com.softwareag.platform.management.client.fix.mirror.platform.validation=false</code>	Disable validating whether a source fix repository (from which you want to create a mirror repository) includes all of the platforms in the product repository you select as a filter.
<code>com.softwareag.platform.management.client.template.composite.skip.restart.for=&lt;componentID&gt;</code>	Indicates whether to bypass the restart of a specific run-time component at the end of the composite template application.
<b>Fixes to include</b>	In Repositories > Fixes > Create Mirror Repository, use the <b>Fixes to include</b> option to select whether to include only the <b>Latest</b> fixes or <b>All</b> fixes in the fix mirror repository.
Command Central default templates library	A library of templates for products that you can install and manage with Command Central, including all supported product configurations. The library is located at <a href="https://github.com/SoftwareAG/sagdevops-templates">https://github.com/SoftwareAG/sagdevops-templates</a>
Provide monitoring data in Prometheus metrics format	Command Central exposes run-time monitoring metrics, which can be consumed by Prometheus when managed containers are deployed in K8S environment.

Changed Item	Description
<code>sagcc get templates composite export</code>	Use the command with: <ul style="list-style-type: none"> <li>the <code>-f application/yaml</code> option to export a template into a YAML file.</li> <li>the <code>-f application/vnd.sagcc.asset+zip</code> option to export a template as a Command Central composite asset zip file.</li> </ul>
Create a fix mirror repository for a single operating system	Command Central can create a mirror repository with fixes for a single operating system, based on the platform in the product repository you select as a filter.
Command Central bootstrap installer for Windows	The Command Central bootstrap installer for Windows is now an .exe file.
Jobs view	Streamlined the Jobs view in the Stacks area of the Command Central web user interface

Changed Item	Description
<code>[artifacts= fixName1[_version], fixName2[_version]   FixId1, FixId2]</code>	In the <code>artifacts</code> argument of the <code>sagcc exec provisioning fixes install</code> command, you can specify either the fix names, or the Empower fix IDs.
<code>fixes: [fix1_v1, ProductCode_10.3_Fix2] ALL</code>	In the <code>fixes:</code> section of a template, you can list either the fix names, or the Empower fix IDs.
<code>sagcc add license-tools manifests</code>	A license manifest file that you add with this command can contain embedded license keys that you register in Command Central when you add the license manifest.
<code>sagcc list license-tools keys</code>	The command returns a list of all license keys registered in Command Central, including license keys added individually and license keys added with a license manifest file.
<code>sagcc delete license-tools keys</code>	You cannot delete license keys embedded in a license manifest with this command. To delete license keys registered in Command Central with a license manifest file, you must delete the license manifest file using the <code>sagcc delete license-tools manifests</code> command.
<code>sagcc get license-tools reports aggregated [usage meteringonly] &lt;reportId&gt;</code>	The command now generates different representations of the aggregated license report.

## Release 10.2

Added Item	Description
Command Central Docker Builder	An official Docker image of Command Central on Docker Store: <a href="https://store.docker.com/images/softwareag-commandcentral">https://store.docker.com/images/softwareag-commandcentral</a>
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.

Added Item	Description
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"> <li>- Enabled products to identify the old hostnames to be replaced with the new host names during migration.</li> <li>- Enabled renaming a product instance during migration (for products supporting instance renaming).</li> </ul>
<pre>dslVersion: 1.1</pre>	A new parameter in the composite template declaration to indicate the DSL version.
<pre>nodes:   &lt;envType&gt;:     aliasMapping:       policy: INDEX       prefix: \${node.alias.prefix}</pre>	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.
<pre>provision:   &lt;envType&gt;:     infrastructure:       hosts: [host1, host2, host3]</pre>	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.
<pre>aliases: [my_node_3,my_node_4] indexes: [3,4]</pre>	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.
Context parameters for node aliases	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 context parameters for DSL “1.1” table in “Templates” in the Command Central Help.

Added Item	Description
<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": "*_&lt;productCode&gt;_&lt;majorVersion&gt;.*_&lt;os.platform&gt; }"</pre>	<p>The <code>"target/licenseKey": "\${alias}"</code> parameter in the <code>templates:&lt;templateAlias&gt;:licenses:</code> section of the composite template supports using wildcard characters when specifying the license key alias.</p>
<pre>{--sync-job   -j}</pre>	<p>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.</p>
<pre>{--retry   -y}[count]</pre>	<p>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.</p>
<pre>{--wait-for-cc   -t} [seconds]</pre>	<p>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.</p>

Changed Item	Description
DSL version 1.1	<p>The new version of the DSL has been enhanced with new sections and parameters.</p> <p>See the “Added Items” table for details.</p>

Changed Item	Description
templates:fixes:	<p>With DSL 1.1 the following changes apply for the templates:fixes: section of the composite templates:</p> <ul style="list-style-type: none"> <li>You cannot list support patches in fixes:</li> <li>fixes:ALL installs all fixes applicable for products in the inline template and their dependencies.</li> </ul>
sagcc list license tools keys	<p>Added the following parameters:</p> <pre>[release=releaseNumber] [aliasFilter=filter] [excludeExpired=true false] [nodeAlias=nodealias]</pre>

## 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 <a href="https://github.com/SoftwareAG/sagdevops-templates">https://github.com/SoftwareAG/sagdevops-templates</a></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.

Added Item	Description
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.	
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&amp;Peak PDF</td> <td>Product Usage PDF</td> </tr> <tr> <td>Base&amp;Peak XML</td> <td>Product Usage XML</td> </tr> <tr> <td>Base&amp;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: <a href="https://github.com/SoftwareAG/sagdevops-9.x-template-samples">https://github.com/SoftwareAG/sagdevops-9.x-template-samples</a>
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	With the two new optional parameters, added in the migration/options/backup/excludes section of the composite template definition, you can select which file types to exclude from the source archive in a more granular way.  Also, now the default value of the "excludes" parameter under migration/backup is "*.log".

Added Item	Description
Fix Repository ID	<ul style="list-style-type: none"> <li>You can use the fix repository ID to select a repository in the instance creation wizard in the Command Central web user interface.</li> <li>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.</li> <li>When applying a composite template, the template now automatically re-applies fixes after a product instance is created.</li> </ul>
<pre> \${node.host} \${node.alias} \${src.node.host} \${migration.type} </pre>	Added context parameters that you can define in a <code>templates:&lt;templateAlias&gt;</code> section of the composite template definition.
COMMON-CREDENTIALS	A new configuration type to add and store the user credentials for a specific alias.
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="813 226 1451 331">Installs products of release 9.8 or higher. You must consider the following when using this wizard:</p> <ul data-bbox="813 373 1451 1226" style="list-style-type: none"> <li data-bbox="813 373 1451 478">▪ Use mirror or master repositories. The product installation wizard does not support image repositories.</li> <li data-bbox="813 520 1451 865">▪ 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="813 907 1451 1012">▪ Checking for dependencies is not supported for older releases, which is indicated by a warning.</li> <li data-bbox="813 1054 1451 1117">▪ Installing language packs is supported only for installations of release 9.12.</li> <li data-bbox="813 1159 1451 1226">▪ 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	Deprecated for configuring extended options for JVM. Use COMMON-JVM-OPTIONS.
Snapshot templates create and apply web user interface and CLI commands	Use composite templates to provision existing environments with version 9.8 or higher
Emitting XML-based events using Event Routing	

## **Platform Manager**

### *Release 10.11*

Changed Item	Description
Platform Manager plug-ins	Updates in the plug-ins for: <ul style="list-style-type: none"> <li>▪ Integration Server</li> <li>▪ Optimize Analytic Engine</li> </ul>

Deprecated Item	Replacement, if any
Application Platform plug-in for Platform Manager	

### *Release 10.7*

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

Changed Item	Description
Automated migration	<p>The following Platform Manager configurations and data are now migrated when you upgrade Command Central:</p> <ul style="list-style-type: none"> <li>▪ Port, SSO, and proxy configurations</li> <li>▪ HTTPS and SSO certificates</li> <li>▪ Users, groups, and roles, and password manager data</li> <li>▪ Customized Java system properties</li> </ul>
Platform Manager plug-ins	<p>Updates in the plug-ins for:</p> <ul style="list-style-type: none"> <li>▪ Business Rules</li> <li>▪ Integration Server and Microservices Runtime</li> <li>▪ BigMemory</li> <li>▪ Universal Messaging</li> </ul>

### Release 10.5

Added Item	Description
Support for encrypted passwords	Platform Manager is now able to decrypt encrypted passwords.
Removing configuration instances when deploying assets	Platform Manager now enables removing configuration instances from deployed assets.
New KPIs for assets deployed to Integration Cloud	<p>The following KPIs are now available:</p> <ul style="list-style-type: none"> <li>▪ <code>restartRequired</code> - when set to <code>true</code> for a deployed run-time component, the component is restarted</li> <li>▪ <code>deploymentTinted</code> - <code>true</code> if any deployment from a pod resulted in an error. The whole pod from the cluster is restarted when <code>deploymentTinted=true</code>.</li> </ul>

Changed Item	Description
Automated migration	<p>Automated migration is enhanced. The following Platform Manager configurations and data are now migrated when you upgrade Command Central:</p> <ul style="list-style-type: none"> <li>▪ Port, SSO, and proxy configurations</li> <li>▪ HTTPS and SSO certificates</li> <li>▪ Users, groups, roles, and password manager data</li> <li>▪ Customized Java system properties</li> </ul>
Automatic restart of run-times when deploying assets	<p>Platform Manager does not restart all run-times during asset deployment but only the run-times that have <code>disableAutoRestartOfRuntimes=false</code> set in the ACDL file.</p>
Platform Manager plug-ins	<p>Updates in the plug-ins for:</p> <ul style="list-style-type: none"> <li>▪ API Gateway</li> <li>▪ Integration Server and Microservices Runtime</li> </ul>

## Release 10.4

Added Item	Description
<code>lar.log</code>	Contains messages generated from the Landscape Asset Repository (LAR).

Changed Item	Description
Platform Manager plug-ins	<p>Updates in the plug-ins for:</p> <ul style="list-style-type: none"> <li>▪ Integration Server</li> <li>▪ Universal Messaging</li> </ul>

Changed Item	Description
Re-starting products after applying product configuration using a composite template	When applying a template for product installations 10.3 or higher, Platform Manager restarts only the run-time components in a layer that report PENDING_RESTART status after Command Central applies the configuration settings defined for those run-time components in the template.
Deploying assets with dependencies	<p>When deploying assets on a target installation Platform Manager always installs:</p> <ul style="list-style-type: none"> <li>▪ The product assets before installing the configuration assets.</li> <li>▪ The dependent assets before installing the main asset.</li> </ul> <p>If a dependent asset is already installed, Platform Manager does not re-install it.</p>

### Release 10.3

Added Item	Description
Platform Manager plug-ins	<ul style="list-style-type: none"> <li>▪ Zementis Integrated Server</li> <li>▪ Task Engine on Integration Server</li> <li>▪ AgileApps Server</li> </ul>
Pull deployment from asset repositories	Platform Manager can be configured to listen and pull assets when changes are detected in an asset repository, and then deploys the assets automatically on product instances.
Processing and applying YAML composite templates	Platform Manager can pull Command Central assets (YAML template files with product configurations) from an asset repository and deploy the templates on product instances running in containers on Integration Cloud.
Provide monitoring data in Prometheus metrics format	Platform Manager exposes run-time monitoring metrics, which can be consumed by Prometheus when managed containers are deployed in K8S environment.

Added Item	Description
syscap UNIX shell script	Collects system information that you use when troubleshooting issues.

*Release 10.2*

Added Item	Description
Platform Manager plug-ins	<ul style="list-style-type: none"> <li>▪ Microservices Runtime</li> <li>▪ MashZone NextGen Event Service (RTBS)</li> </ul>

*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"> <li>▪ Platform Manager plug-in for ActiveTransfer</li> <li>▪ Platform Manager plug-in for PPM</li> </ul>

*Release 9.10*

Added Item	Description
Platform Manager plug-ins	Platform Manager plug-in for Apama.

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

  

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

## 9.0 Added, Removed, Deprecated, or Changed APIs

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

### ***Command Central***

#### *Release 10.11*

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

### *Release 10.7*

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

### *Release 10.4*

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

### *Release 10.3*

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

## 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"><li>▪ Added the Stacks service that you use to create stacks and layers.</li><li>▪ Enhanced the following services:<ul style="list-style-type: none"><li>▪ Repository (added assets repositories)</li><li>▪ Provisioning (added install/uninstall assets)</li><li>▪ Template (added validate a template)</li><li>▪ License Tools (enhanced base and peak license inventory and report commands)</li></ul></li></ul>

## Release 10.0

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

## Platform Manager

### Release 10.7

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

## Release 10.5

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

## Release 10.4

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

## Release 10.3

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

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