

Software AG Command Central 10.5 and Software AG Platform Manager 10.5 Readme

October 2019

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

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

1.0	Critical Information.....	1
2.0	Known Issues.....	2
3.0	Usage Notes.....	4
4.0	Fixes Included in Each Release	5
5.0	Other Resolved Issues.....	8
6.0	Documentation Changes	8
7.0	Terminology Changes	11
8.0	Added, Removed, Deprecated, or Changed Items.....	11
9.0	Added, Removed, Deprecated, or Changed APIs	35
10.0	Copyright Information.....	38
11.0	Support.....	38

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-5380
In the Command Central web user interface, the Installations page might load slowly if the hosts of some installations are shut down or unknown.
There is currently no workaround for this issue.
- CCE-5538
In the Command Central web user interface, if the infrastructure layer definition that you use to create a new infrastructure layer has a "nodes" parameter with a variable, the layer does not have any run-time components.
To work around this issue, when creating the infrastructure layer in the Stacks view, replace the variable in the "nodes" parameter with a value.
- CCE-5541
When connecting to a new asset repository, if you specify the name or location of an asset repository that is already registered in Command Central, the connection attempt fails with an error. Command Central also deletes the existing repository with the same name. The issue occurs because you cannot have two repositories registered under the same name, or using the same location.
To work around this issue, do not use an existing asset repository name when you connect to a new asset repository.
- CCE-5471
When you open several layers from different stacks in the Stacks view, the Command Central web user interface starts to respond slowly.
To work around this issue, refresh the browser page.
- CCE-5383
In the Command Central web user interface, if you connect to the default templates repository on GitHub for the second time using the same repository name, all default templates imported into Command Central when you first connected to the repository get replaced with the latest templates on GitHub.
To work around this issue, save any default templates that you have customized with a new template alias.
- CCE-5488
Adding a new installation in Command Central takes a long time when the installation is not running.
There is currently no workaround for this issue.
- CCE-5412
In the Command Central web user interface, if you add a stack with a name that contains a period

(.), you cannot add layers to this stack.

To work around this issue, do not add periods (.) in stack names.

- CCE-5372
Run-time component configurations are not visible in the Command Central web user interface. If a run-time component has a large number of configurations, some configurations might not be visible and accessible in the configurations drop-down box for that component.
The work around this issue, zoom out the page in your web browser to view all configurations.
- CCE-5491
In some cases, after you connect to the default templates repository on GitHub using the Command Central web user interface, the repository disappears, and the following error message is displayed when you navigate to the Repositories > Assets tab:
“Internal Error processing the request.”
To work around this issue, try to refresh the asset repository page by clicking the Refresh view button in the web user interface, or refresh the page in your web browser.

The following issues are resolved in Command Central 10.5 Fix 1:

- CCE-5557
Log entries are missing after migrating Command Central.
After you migrate Command Central using the Command Central migration utility or the Command Central bootstrap installer the
SoftwareAG_directory/CommandCentral/install/logs/migrationLog log does not have any log entries.
The issue is resolved.
- CCE-5527
In the Command Central web user interface, when you use the Install Product wizard to install products on an existing node, it might not be possible to select an "Install from" repository even when several product repositories are registered in Command Central.
The issue is resolved.
- CCE-5521
The truststore location is incorrect after migrating Command Central.
If you have set a custom truststore location in the Command Central Outbound SSL Connection Settings and you migrate Command Central using the bootstrap installer, the truststore location might point to the default Command Central certificate after the migration.
The issue is resolved. Custom truststore locations are now successfully migrated.
- CCE-5489
When you add the default templates from the repository on GitHub using the "Local templates ZIP file" repository type in the wizard and browse to a local ZIP file of the default templates, Command Central does not find and import the templates from the specified ZIP file.
The issue is resolved.
- CCE-5499

When applying a template in Command Central and the template contains an invalid port number, the Command Central logs return the following exception message when validating the template:

"Message not found for key SPMCTCE0000"

The issue is resolved. The Command Central logs now return the correct exception message, as follows:

"Unexpected YAML type String in field node port! The correct type is integer"

- CCE-5513

In some cases when deploying assets to Integration Cloud, the "Restart Required" KPI, is displayed when you are viewing instances in the Command Central web user interface. This KPI is only used for monitoring run-time components with pending changes that require restart.

This issue is resolved. The "Restart Required" KPI is no longer displayed in the Command Central web user interface.

- CCE-5379

After refreshing the contents of a fix repository in the Command Central web user interface, it does not pick up fixes for operating systems you added in the product mirror repository, which you use for the fix mirror repository. For example, if you add a new OS in the product mirror repository, the fix mirror repository is not updated with the fixes for the OS you added.

The issue is resolved. Command Central successfully refreshes the contents of a fix mirror repository with fixes for operating systems added in the product mirror repository used by the fix mirror repository.

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

- 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 10.4

- CCE_10.4_Core_Fix3
- CCE_10.4_WebUI_Fix3
- CCE_10.4_SPMplugin_Fix3
- CCE_10.4_CLI_Fix3

Release 10.3

- CCE_10.3_Core_Fix8
- CCE_10.3_WebUI_Fix8
- CCE_10.3_SPMplugin_Fix8
- CCE_10.3_CLI_Fix8

Release 10.2

- CCE_10.2_Core_Fix4
- CCE_10.2_WebUI_Fix4

- CCE_10.2_SPMplugin_Fix4
- CCE_10.2_CLI_Fix4

Release 10.1

- CCE_10.1_Core_Fix16
- CCE_10.1_CCCommon_Fix16
- CCE_10.1_WebUI_Fix16
- CCE_10.1_SPMplugin_Fix16
- CCE_10.1_CLI_Fix16

Release 10.0

- CCE_10.0_Core_Fix6
- CCE_10.0_CCCommon_Fix6
- CCE_10.0_WebUI_Fix6
- CCE_10.0_SPMplugin_Fix6
- CCE_10.0_CLI_Fix6

Release 9.12

- CCE_9.12_Core_Fix19
- CCE_9.12_CCCommon_Fix19
- CCE_9.12_WebUI_Fix19
- CCE_9.12_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_SPMplugin_Fix9
- CCE_9.10_CLI_Fix9

Platform Manager

Release 10.4

- SPM_10.4_Core_Fix3
- SPM_10.4_SPMCommon_Fix3

Release 10.3

- SPM_10.3_Core_Fix8
- SPM_10.3_SPMCommon_Fix8

Release 10.2

- SPM_10.2_Core_Fix4
- SPM_10.2_SPMCommon_Fix4

Release 10.1

- SPM_10.1_Core_Fix16
- SPM_10.1_SPMCommon_Fix16

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 10.5

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 10.5

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 10.5

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 (&).

Added Item	Description
<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.
Import parameters from file in the Stacks view	When you add or update a layer in a stack, you can import a template properties file to set the layer properties.
Export layer properties from the Stacks view	When you add or update a layer in a stack, you can export the properties set for the layer in a template properties file. Password properties in the exported file are encrypted.
Export Instance to Template wizard	In the Command Central web user interface, you can now export a product instance from a managed installation to a run-time micro template by navigating to the required instance on the Instances tab and clicking Export > Export runtime . Command Central generates a template with the product instance data, imports the generated template automatically, and creates a layer type definition for the template.
Export Database to Template wizard	In the Command Central web user interface, you can now export the database components and schemas configured for the products in an installation to a database micro template by navigating to the Platform manager instance on the node where the Database Component Configurator is installed and clicking Export > Export database . Command Central generates a template with Database Component Configurator products and database actions, imports the generated template automatically, and creates a layer type definition for the template.

Added Item	Description
<pre>sagcc exec templates composite generate alias=templateAlias nodeAlias=<nodeAlias> options=DATABASE db.url=<JDBC_URL> db.name=<name> db.username=<username> db.password=<password> db.type=<type> [overwrite={true false}] [dbUseComponentsLatestVersion={true false}] [createLayerType={true false}] -s <local_CCE_URL></pre>	<p>The command exports the products and actions for the specified database to a database micro template.</p>
Database micro template	A micro template that is used for defining the database components and schemas configured for a product.
environment.mode=maintenance	Use to install Database Component Configurator fixes and running database schema migration using a template.
New database layer	Create a new database layer in a stack from the Add layer drop-down box of the Stacks view based on a database layer type definition.
Existing database layer	Create a database layer in a stack from the Add layer drop-down box of the Stacks view based on the DATABASE-EXISTING layer type definition.
DATABASE-EXISTING layer type definition	A default layer type definition for creating a database layer for existing environments.
DATABASE layer type	A layer type for creating a database layer definition.
Templates view	You can now view and manage all templates that are registered in your Command Central installation through the Templates view in the web user interface.
Import template button	You can now register templates in your Command Central installation by using the import template button in the new Templates view in the web user interface.

Added Item	Description
Default templates repository	<p>In the Command Central web user interface, you can now connect to the default templates assets repository located at https://github.com/SoftwareAG/sagdevops-templates-repo</p> <p>To connect to the repository, navigate to Repositories > Assets and click Add repository > Connect to Software AG Repositories. Command Central imports the template assets and creates a layer type definition for all templates used in one of the layer type definitions in the “sag-cc-layer-defs” template.</p>
<code>sagcc exec templates composite import repository</code>	Imports all or selected assets from a template asset repository registered in a Command Central installation.
Delete stack	You can delete a stack through the web user interface by clicking the three dots in the upper right corner of the stack and then Delete .
Delete layer	You can delete a layer through the web user interface by clicking the layer, clicking the three dots in the upper right corner of the layer page, and then Delete .
<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"> ▪ Outbound SSL configuration ▪ LDAP certificates ▪ Command Central bootstrap installers ▪ Customized Java system properties

Changed Item	Description
<code>sagcc exec templates composite generate alias=<templateAlias> nodeAlias=<nodeAlias> runtimeComponentId=<runtimeComponentId> options=FIXES</code>	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.
<code>snapshot option</code>	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"> ▪ <code>sagcc exec provisioning assets install</code> ▪ <code>sagcc exec provisioning assets uninstall</code> ▪ <code>sagcc list provisioning assets supportedcomponents</code>

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.

Added Item	Description
<code>options:</code> <code> abortOnConfigFailure: true false</code> <code> abortOnLayerStartupFailure: true false</code> <code> forceRestartWhenDone: true false</code> <code> startupLayers: true false</code> <code>skipOnTemplateError: true false</code>	<p>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.</p> <p>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.</p>
<code>namePrefix: hexTimestamp none</code>	<p>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.</p>
<code>sagcc list templates composite properties</code>	<p>The command retrieves a list of all environment properties defined in an <code>environments:env.type:</code> section in a template.</p>
<code>sagcc get license-tools keys {-o --output} <filename.zip></code>	<p>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.</p>
<code>sagcc list provisioning products uninstall dependencies</code>	<p>The command returns a list of all products that depend on the specified product(s).</p>
<code>sagcc list provisioning fixes uninstall dependencies</code>	<p>The command returns a list of all fixes that depend on the specified fix(es).</p>

Changed Item	Description
Monitoring of the apply job status for a template	If a sub-job of the main composite template apply job fails, the failure of the sub-job causes the main template apply job to fail with an ERROR.

Changed Item	Description
Jobs view in the Command Central web user interface	<ul style="list-style-type: none"> Only one Jobs view exists now, which includes all functionalities of the legacy Jobs view. Navigation is improved. The Jobs page provides a simplified view with all running jobs. Error reporting is enhanced.
Optimizing run-time component lifecycle operations during the execution flow of composite template application on nodes with version 10.3 and higher	<ul style="list-style-type: none"> By default, all run-time components are no longer restarted at the end of the composite template execution. Run-time components are restarted during a layer application only if a configuration that requires a restart is applied in that layer. All stopped components are started at the end of a layer application.
sagcc exec templates composite generate	<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"> [options=CONFIGURATION] [options=INSTANCE] [options=PRODUCTS] [options=FIXES] [createLayerType={true false}]
sagcc exec templates composite generate input	<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> <p>[createLayerType={true false}]</p>

Changed Item	Description
<pre>sagcc exec templates composite apply <templateAlias> --sync-job -e <expectedStatus></pre>	<p>The command sets a:</p> <ul style="list-style-type: none"> ▪ Non-zero exit code if the expected status value is not retrieved. ▪ Zero exit code if the expected status value is successfully retrieved.
Template application failure	<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>
Encrypting properties in a custom <code>cc.properties</code> file	<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>
LDAP connection validation	<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>
Connecting to repositories over HTTPS	<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>
License reporting field	<p>Enhanced the License reporting field on the Overview tab for a product instance in the Command Central web user interface.</p>
Licensing > Reports	<p>Streamlined the Licensing > Reports page in the Command Central web user interface.</p>
<pre>sagcc list administration product <node_alias> 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>

Changed Item	Description
<code>sagcc list jobmanager jobs</code> command output	<ul style="list-style-type: none"> ▪ <code>Status As String</code> column renamed to <code>Status Description</code> ▪ The default output contains the following columns: <code>ID</code>, <code>Status Progress</code>, <code>Description</code>, <code>Progress Description</code>, <code>Status Description</code>. ▪ 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 <code>Status</code> and <code>Status Description</code> columns. ▪ If the template execution job is still in progress or it was completed with no custom status, the command output displays the system status and its description in the <code>Status</code> and <code>Status Description</code> columns. ▪ The <code>Duration</code> and <code>Links</code> columns are removed from the default output. To display the columns, add the <code>properties=*</code> argument when running the command.

Removed Item	Description
Legacy Jobs view	Removed from the Command Central web user interface. The functionality is now covered by the Jobs view in the Stacks user interface.
<code>DataMap</code> 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">▪ Designer (to deploy to Integration Cloud)▪ Asset Build Environment▪ <pre>sagcc get templates composite export templateAlias {--output -o} filename.zip [{--output-format -f} application/vnd.sagcc.asset+zip]</pre> <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>
<pre>sagcc exec templates composite generate</pre>	Generates run-time component configurations as a template YAML file.
<pre>sagcc exec templates composite generate input</pre>	Generates run-time component configurations as a template YAML file, based on an input template metadata file.
<pre>application/vnd.sagcc.asset+zip</pre>	Content type for Command Central composite assets.
<pre>application/yaml</pre>	Content type for YAML files.
<pre>sagcc exec repository mirror validateContent</pre>	Validates the integrity of a mirror repository against the source repository.
<pre>com.softwareag.platform.management. client.fix.mirror.platform.validati on=false</pre>	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.
<pre>com.softwareag.platform.management. client.template.composite.skip.rest art.for=<componentID></pre>	Indicates whether to bypass the restart of a specific run-time component at the end of the composite template application.
Fixes to include	<p>In Repositories > Fixes > Create Mirror Repository, use the Fixes to include option to select whether to include only the Latest fixes or All fixes in the fix mirror repository.</p>

Added Item	Description
Command Central default templates library	A library of templates for products that you can install and manage with Command Central, including all supported product configurations. The library is located at https://github.com/SoftwareAG/sagdevops-templates
Provide monitoring data in Prometheus metrics format	Command Central exposes run-time monitoring metrics, which can be consumed by Prometheus when managed containers are deployed in K8S environment.
Changed Item	Description
<code>sagcc get templates composite export</code>	<p>Use the command with:</p> <ul style="list-style-type: none"> the <code>-f application/yaml</code> option to export a template into a YAML file. the <code>-f application/vnd.sagcc.asset+zip</code> option to export a template as a Command Central composite asset zip file.
Create a fix mirror repository for a single operating system	Command Central can create a mirror repository with fixes for a single operating system, based on the platform in the product repository you select as a filter.
Command Central bootstrap installer for Windows	The Command Central bootstrap installer for Windows is now an .exe file.
Jobs view	Streamlined the Jobs view in the Stacks area of the Command Central web user interface
<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.

Changed Item	Description
<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] <reportId></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: https://store.docker.com/images/softwareag-commandcentral
SSL to connect to master repositories (Empower)	Command Central now uses SSL to connect to master repositories (Empower), managed by Command Central 10.2 and hosted on Platform Manager 10.2, when downloading products and fixes to install in an environment.
General Data Protection Regulation (GDPR) compliance	Included information in the Command Central Help about how to delete Command Central and Platform Manager logs.
Support for new parameters for cross-host product migration	<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
<code>dslVersion: 1.1</code>	A new parameter in the composite template declaration to indicate the DSL version.
<pre> nodes: <envType>: 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: <envType>: 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.
<code>patches: [patchKey1, patchKey2]</code>	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.
<pre> "target/licenseKey": "*_<productCode>_<majorVersion>.*_\${os.platform}" </pre>	The <code>"target/licenseKey":</code> <code>"\${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.

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 templates: <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> <tr> <th>Old menu item</th><th>New menu item</th></tr> <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> </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														
<p>In nodes/default/default/bootstrapInfo:</p> <pre>repo.spm: repositoryName platform: platformCode userName: password:</pre> <p>In repositories/fix and repositories/product:</p> <pre>userName: password:</pre>	<pre>installer: bootstrapInstallerFileName installer: bootstrapInstallerFileName credentials: credentialsAlias credentials: credentialsAlias</pre>														
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 fixRepository=<i>repo_ID</i> 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>\${node.host}</code> <code>\${node.alias}</code> <code>\${src.node.host}</code> <code>\${migration.type}</code>	Added context parameters that you can define in a <code>templates:<templateAlias>:</code> section of the composite template definition.
COMMON-CREDENTIALS	A new configuration type to add and store the user credentials for a specific alias.

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

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

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

Release 9.12

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

Added Item	Description
Web user interface product installation wizard	<p>Installs products of release 9.8 or higher. You must consider the following when using this wizard:</p> <ul style="list-style-type: none"> ▪ Use mirror or master repositories. The product installation wizard does not support image repositories. ▪ For installations of release 9.10 or higher, installing a Platform Manager product plug-in automatically restarts Platform Manager to activate the plug-in. For earlier releases, Platform Manager is not restarted automatically and you should use the ALL distribution (which includes all product plug-ins) or restart Platform Manager manually. ▪ Checking for dependencies is not supported for older releases, which is indicated by a warning. ▪ Installing language packs is supported only for installations of release 9.12. ▪ Use the Software AG Installer to install products of release 9.7 and earlier.
sagcc get templates composite export	Exports an existing composite template into a zip archive.

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

Changed Item	Description
Command Central REST API	<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	Added in the “cc exec templates composite apply” command to specify whether the composite template will provision or migrate the environment.
Migrate products using composite templates and the Command Central CLI	<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	Configure Universal Messaging connection factories and destinations in a JNDI namespace using the Command Central web user interface or command line interface.

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

Platform Manager

Release 10.5

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">▪ <code>restartRequired</code> - when set to <code>true</code> for a deployed run-time component, the component is restarted▪ <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>.

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">▪ Port, SSO, and proxy configurations▪ HTTPS and SSO certificates▪ Users, groups, roles, and password manager data▪ Customized Java system properties
Automatic restart of run-times when deploying assets	<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>

Changed Item	Description
Platform Manager plug-ins	<p>Updates in the plug-ins for:</p> <ul style="list-style-type: none"> ▪ API Gateway ▪ Integration Server and Microservices Runtime

Release 10.4

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

Changed Item	Description
Platform Manager plug-ins	<p>Updates in the plug-ins for:</p> <ul style="list-style-type: none"> ▪ Integration Server ▪ Universal Messaging
Re-starting products after applying product configuration using a composite template	When applying a template for product installations 10.3 or higher, Platform Manager restarts only the run-time components in a layer that report PENDING_RESTART status after Command Central applies the configuration settings defined for those run-time components in the template.
Deploying assets with dependencies	<p>When deploying assets on a target installation Platform Manager always installs:</p> <ul style="list-style-type: none"> ▪ The product assets before installing the configuration assets. ▪ The dependent assets before installing the main asset. <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">▪ Zementis Integrated Server▪ Task Engine on Integration Server▪ AgileApps Server
Pull deployment from asset repositories	Platform Manager can be configured to listen and pull assets when changes are detected in an asset repository, and then deploys the assets automatically on product instances.
Processing and applying YAML composite templates	Platform Manager can pull Command Central assets (YAML template files with product configurations) from an asset repository and deploy the templates on product instances running in containers on Integration Cloud.
Provide monitoring data in Prometheus metrics format	Platform Manager exposes run-time monitoring metrics, which can be consumed by Prometheus when managed containers are deployed in K8S environment.
syscap UNIX shell script	Collects system information that you use when troubleshooting issues.

Release 10.2

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

Release 9.10

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

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

9.0 Added, Removed, Deprecated, or Changed APIs

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

Command Central

Release 10.4

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

Release 10.3

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

Release 10.2

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

Release 10.1

Changed API	Description
Command Central REST API	<ul style="list-style-type: none">▪ Added the Stacks service that you use to create stacks and layers.

Changed API	Description
	<ul style="list-style-type: none"> 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

Platform Manager

Release 10.5

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

Release 10.4

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

Release 10.3

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

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CC-PM-RM-105-20200331