



Universal CMDB

Software Version: Content Pack 25.00 (CP25)

Release Notes

Document Release Date: October 2017

Software Release Date: October 2017



Legal Notices

Warranty

The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

The information contained herein is subject to change without notice.

Restricted Rights Legend

Confidential computer software. Valid license from Hewlett Packard Enterprise required for possession, use or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

Copyright Notice

© 2002 - 2017 Hewlett Packard Enterprise Development LP

Trademark Notices

Adobe™ is a trademark of Adobe Systems Incorporated.

Microsoft® and Windows® are U.S. registered trademarks of Microsoft Corporation.

UNIX® is a registered trademark of The Open Group.

Disclaimer

Certain versions of software and/or documents ("Material") accessible here may contain branding from Hewlett-Packard Company (now HP Inc.) and Hewlett Packard Enterprise Company. As of September 1, 2017, the Material is now offered by Micro Focus, a separately owned and operated company. Any reference to the HP and Hewlett Packard Enterprise/HPE marks is historical in nature, and the HP and Hewlett Packard Enterprise/HPE marks are the property of their respective owners.

Documentation Updates

To check for recent updates or to verify that you are using the most recent edition of a document, go to: <https://softwaresupport.hpe.com/>.

This site requires that you register for an HP Passport and to sign in. To register for an HP Passport ID, click **Register** on the HPE Software Support site or click **Create an Account** on the HP Passport login page.

You will also receive updated or new editions if you subscribe to the appropriate product support service. Contact your HPE sales representative for details.

Support

Visit the HPE Software Support site at: <https://softwaresupport.hpe.com/>.

Most of the support areas require that you register as an HP Passport user and to sign in. Many also require a support contract. To register for an HP Passport ID, click **Register** on the HPE Support site or click **Create an Account** on the HP Passport login page.

To find more information about access levels, go to: <https://softwaresupport.hpe.com/web/softwaresupport/access-levels>.

HPE Software Solutions Now accesses the HPSW Solution and Integration Portal website. This site enables you to explore HPE Product Solutions to meet your business needs, includes a full list of Integrations between HPE Products, as well as a listing of ITIL Processes. The URL for this website is <https://softwaresupport.hpe.com/km/KM01702731>.

Contents

HPE Universal CMDB Content Pack Release Notes	4
What's New in Content Pack 25	4
Updated Versions for Discovered Applications	4
New and Extended Discovery	4
Universal Discovery Inventory	5
Automated Service Modeling (ASM) Improvements	5
Integrations	6
Documentation	6
Others	7
System Requirements	7
Content Pack Installation	8
Discovery Knowledge Content	11
Accessing Content Pack Documentation	12
Known Issues, Limitations, and Workarounds	12
Enhancement Requests	19
Fixed Defects	22
Send documentation feedback	29

HPE Universal CMDB Content Pack Release Notes

This document provides information about HPE Universal CMDB (UCMDB) and Universal Discovery (UD) Content Pack 25.

What's New in Content Pack 25

This section provides information about new features and enhancements added to Content Pack 25.

Updated Versions for Discovered Applications

Added support for discovering the following application versions to the existing discovery jobs:

- Oracle Database 12c R2
- Red Hat WildFly (formerly JBoss AS) 11.x

New and Extended Discovery

Added support for the following discoveries:

- Red Hat Virtualization Discovery: Discover Red Hat Enterprise Virtualization Manager (RHEV-M) topology, such as RHEVM Cluster, RHEVM Datacenter, RHEVM Network, RHEVM Resource Pool, RHEVM VNIC Profile, RHEVM Volume, Red Hat Virtualization, virtualization hosts, hypervisors, and relationships between virtual machines and hypervisors, using REST APIs.
- Storage Devices by SNMP Discovery: Discover EMC Isilon Filers and Data Domain storage systems.
- New capabilities of the existing Amazon Web Services (AWS) Discovery: Discover Amazon Auto Scaling Groups.
- New capabilities of the existing Firewall Discovery: Discover Juniper firewalls including virtual firewalls through SSH Protocol by the new job **Firewall Topology by Shell** job.

For more details, see the *UCMDB Discovery and Integrations Content Guide - Discovery Modules*.

Universal Discovery Inventory

- Inventory Scanner can now discover Solaris Zone topology and Solaris LDOM topology.

Added the following new job parameter to the **Inventory Discovery by Manual Scanner Deployment** and **Inventory Discovery by Scanner** jobs:

discoverLDOM. Specifies whether to report Solaris LDOM partitions.

Note: If the value of this parameter is set to **true** and LDOMs are discovered, UD Full (UDF) license is required.

- The **Inventory Discovery by Scanner** job can now report more CPU related attributes about LPAR.

Automated Service Modeling (ASM) Improvements

- **ASM supports RDS deployed in AWS**

ASM now supports Relational Database Service (RDS) deployed in Amazon Web Services (AWS). A new job **AWS RDS Tunnel** is introduced to correctly discover RDS database in AWS, allowing you to capture service models more accurately in AWS. For more details, see UCMDB Browser documentation for version 4.15.

- Updated ASM configuration signature to support some special format in JDBC connection strings for JBoss server.
- ASM can now read and parse the ports in the same line with the delimiter "," (comma) from **portNumberToPortName.xml**.
- ASM can now find the concrete site name according to the host name of entry point URL when there are multiple services deployed on the same IIS server with the same listening port but different URLs.
- ASM can now resolve the SiteMinder configuration file to report SiteMinder policy servers.
- ASM can now discover web servers balanced by Varnish cache proxy by parsing the Varnish configuration files.

Integrations

- Added a mapping file sample about using the **Reference** link type for the ServiceNow Enhanced Generic Adapter in "Sample Integration Population Query" of the *UCMDB Discovery and Integrations Content Guide - Third Party Integrations*.

Documentation

Software Information Portal

Online documentation for current and previous releases of CMS product (UCMDB, UD Content Pack, and UCMDB Browser) are now available on the new [Software Information Portal](#).

To access CMS documentation:

1. Go to [Software Information Portal](#).
2. Click **Documentation A-Z**.
3. Scroll down to the Online Documentation by Product Name section and click letter **U**.

Now all available versions for UCMDB, UCMDB Browser, and UD Content Pack are displayed. Just click a product version to access the online help for the product.

Content Pack Class Model Documentation

A detailed UCMDB Class Model specific to Content Pack 25.00 running on UCMDB 10.33 is accessible from the Content Pack documentation:

- In UCMDB UI, go to **Help > Discovery and Integrations Content Help > Reference (or Use) > Universal Data Model (UDM)**
- From the [Software Information Portal](#), go to Universal Discovery Content Pack **25.00** help, then go to **Reference (or Use) > Universal Data Model (UDM)**.

Others

- Improved discovery of MySQL and MariaDB databases using Shell ,to capture name and version.
- Added support to disable the Call Home events when deploying UD Agent. For details on how to disable Call Home, see "How to Disable Call Home" in the *UCMDB Discovery and Integrations Content Guide - General Reference*.
- Added the JVM CIT to the **JEE Weblogic by Shell** job.
- Scanner version: 10.33.000.330
- Universal Discovery Agent version: 10.33.000.330
- Inventory Discovery Knowledge version: 2017.10

System Requirements

- CP25 can be installed on:
 - UCMDB 10.22 CUP6 (or a later CUP)
 - UCMDB 10.31
 - UCMDB 10.32
 - UCMDB 10.33
- You must install UCMDB 10.22 CUP6 (or a later CUP), 10.31, 10.32, or 10.33 before installing CP25.

Important Note:

- In case UCMDB is using a Microsoft SQL Server database and replication is enabled in the database server before upgrading the Content Pack, temporarily disable the replication in the Microsoft SQL Server database. For more details, see the *Universal CMDB Database Guide*.
- Starting with CP23, Content Pack is no longer compatible with UCMDB 10.11 (with or without a CUP on top of it).
- Before you deploy CP25 on top of version 10.3x, you must install version 10.3x of UCMDB and UD, and then deploy version 10.3x Data Flow Probes. Do not deploy CP25 while you are still updating the Data Flow Probes.

- Before you deploy CP25 on top of version 10.22, you must install version 10.22 on the UCMDDB, UD, and (optionally) CM servers, and deploy version 10.22 Data Flow Probes. Do not deploy CP25 while you are still updating the Data Flow Probes.

For a complete list of system requirements, see the *Universal CMDB Support Matrix* document available from the UCMDDB Online Help home page.

For more details, see the [Discovery and Integrations Content Guide - Support Matrix](#).

Content Pack Installation

The following procedure explains how to install Content Pack 25.00 for Universal CMDB.

Note: Rolling back the installation is not supported as it can lead to system inconsistencies. If you are upgrading from earlier versions of the content pack, it is strongly recommended to ensure that you have backed up your database.

1. Prerequisites

- The UCMDDB Server must be running when you install the Content Pack.
- During installation, Setup may restart the Probe to load the new content jar file.
- Back up your database.

Note: If you have deployed the **ASM_Enhanced.zip** package, delete all Service Connection Point CIs and undeploy the package before you proceed with the installation.

2. Retrieve the Content Pack 25.00 ZIP file

The name of the installation file is **CP25_installation.zip**. This file is located on the [ITOM Marketplace](#).

The ZIP file contains the following resources:

- Packages (**CP25.zip**)
- Online help
- The *UCMDDB Discovery and Integrations Content Guide* PDF files.
- Permissions.pdf

3. Extract packages from the Content Pack 25.00 ZIP file

Unpack the contents of the **CP25_installation.zip** file to **<UCMDDB_Server_Home>**.

4. Back up existing packages

- a. Launch a Web browser and enter the following address:

https://localhost:8443/jmx-console

Log in using the JMX console authentication credentials.

Note: Starting with UCMDB version 10.30, by default the HTTPS protocol is enabled for UCMDB server, with the HTTP protocol being disabled.

If necessary, you can enable HTTP communication for UCMDB Server. For instructions, see "How to Enable HTTP Communication for UCMDB Server" in the *Universal CMDB Administration Guide*.

- b. Click the **UCMDB:service=Packaging Services** link.
- c. On the JMX MBEAN View page, locate the following JMX function: **exportPackages ()**.

Note: The JMX function **exportPackages ()** exports packages that contain OOTB Jython scripts customized by the UCMDB administrator. The customizations will be lost after the CP25 deployment.

- In the **customerID** field, enter **1**.
 - In the **packagesNames** field, leave this field empty to export all packages.
 - In the **outputDir** field, enter the full path to a directory where UCMDB should place the backed-up packages, for example, **<UCMDB_Server_Home>\content\my_packages_backup**. The directory is created automatically.
 - In the **userOnly** field, select **False** to export all packages (and not only the user-created packages).
- d. Click **Invoke**.
 - e. Verify that all relevant packages have been backed up to the folder mentioned in the previous step, and that there are no errors in the **mam.packaging.log** file, located in **<UCMDB_Server_Home>\runtime\log**.

5. Install Content Pack 25.00

You can install the Content Pack from the Universal CMDB user interface, using UCMDB JMX Console, or using UCMDB Browser standalone 4.12 or later.

Note: When you install a Content Pack, you may want to retain your customized resources separate from the installed Content Pack. Therefore, starting from UCMDB 10.31, the

functionalities of comparing and merging packages or Content Packs are introduced. For more details, see the "Compare and Merge Packages or Content Packs" section in the *Universal CMDB Administration Guide*.

- **From Universal CMDB:**
 - i. Stop UCMDB.
 - ii. Make sure that **CP25.zip** is in the following directory:
<UCMDB_Server_Home>\content\content_packs
 - iii. Start UCMDB server.
 - iv. Log in to the UCMDB.
 - v. Access the **Package Manager (Administration > Package Manager)**.
 - vi. On the toolbar, click the **Install Content Pack** button.
 - vii. In the Install Content Pack dialog box that opens, select the CP25 version of the Content Pack and click **Install**.
- **Using UCMDB JMX Console:**
 - i. Log in to the UCMDB JMX-Console (<https://localhost:8443/jmx-console>).
 - ii. Open **UCMDB > Content Pack Services**.
 - iii. Invoke **displayAvailableContentPackVersions** to see available versions of the Content Pack.
 - iv. Enter the CP25 version in the version field, and invoke **installContentPack**.
- **Using UCMDB Browser standalone 4.12 or later**
 - i. Use the following URL:
<protocol>://<server_name>:<port_number>/ucmdb-browser/admin#panel=packagemanager

Note:

- You can also access the Package Manager from **UCMDB Browser > Administration Console > Package Manager** module. For details, see the "Logging In" section in the *Universal CMDB Browser Installation and Configuration Guide*.
- The Package Manager requires UCMDB Browser standalone 4.12 or later, and UCMDB server 10.31 or later.

- ii. Click **Install Package**.
- iii. Click the **Content Pack** tab.
- iv. Click **Explore Content Pack**, select **CP25.zip**, and then click **Install Selected**.

Note: Make sure that **CP25.zip** is in the following directory:

<UCMDB_Server_Home>\content\content_packs

For more details on using UCMDB Browser standalone 4.12 or later, see the "How to Install/Deploy a Discovery and Integration Content Pack" section of the *HPE Universal CMDB Package Manager Guide*.

6. Verify installation

Verify that there are no errors in the **mam.packaging.log** file, located in **<UCMDB_Server_Home>\runtime\log**.

7. If you are installing the Content Pack on a High Availability system, copy all files from the following folder on the active UCMDB server to the same folder on the passive UCMDB server: **<UCMDB_Server_Home>\runtime\fcmdb\CodeBase**.

Discovery Knowledge Content

Starting from April 2015 to ensure more regular updates to the Normalization Rules and Software Application Index (SAI), the new Inventory Discovery Knowledge Packs are introduced on a monthly schedule.

Normalization Rules contain information to identify hardware devices in your environment. Normalization Rules determine the device's operating system, application, device family, and model. Then, the Normalization Rules Engine assigns a device type to your device model.

SAI files contain information to identify applications on a discovered node. Universal Discovery employs a number of installed software application recognition techniques, including file-based recognition, version data, and installed package rule-based recognition. The data that is required for this recognition to work is stored in the application library files (SAI).

For details about Normalization Rules and SAI Updates, see *UCMDB Inventory Discovery Knowledge Pack Release Notes* available on the [ITOM Marketplace](#).

Accessing Content Pack Documentation

To read the latest versions of the relevant documents, access the following URLs:

- https://SERVER_NAME:PORT/ucmdb-ui/docs/DDMContent.jsp – Discovery and Integrations Content Guide
- https://SERVER_NAME:PORT/ucmdb-ui/docs/permissions.jsp – the Permissions document

Known Issues, Limitations, and Workarounds

Content Pack 25 has the following known issues and limitations. This is a cumulative list of known issues and limitations in Content Pack, including those that are already documented in previous release notes.

ID	Issue
Content Pack Installation	
QCCR1H104758	PROBLEM: If you deploy CP25 in UCMDB before you upgrade UCMDB to 10.22 (or later), the parent of the ConsumerProvider relationship does not change to Usage but remains as Dependency. To resolve this issue, follow these steps: <ol style="list-style-type: none">1. Extract the ASM_Enhanced.zip package from the CP25 package.2. Log in to UCMDB, and then go to Administration > Package Manager.3. Deploy the ASM_Enhanced.zip package that you just extracted.
Content Pack Upgrade	

ID	Issue
QCCR1H112667	<p>PROBLEM:</p> <ul style="list-style-type: none"> When upgrading the Content Pack to CP25 in UCMDB 10.22 or earlier, you may see the following error messages: "CM1030PolicyAdapter.zip: Unsupported CMDB version" and "CM1030KpiAdapter.zip: Unsupported CMDB version". When upgrading the Content Pack to CP25 in UCMDB version 10.30 or 10.31, you may see the following error messages: "CMPolicyAdapter.zip: Unsupported CMDB version" and "CMKpiAdapter.zip: Unsupported CMDB version". <p>Cause: Starting with CP23, two new CM adapters CM1030KpiAdapter and CM1030PolicyAdapter are added to CP. These two new adapters can be deployed with CP only from UCMDB 10.30 or later. The old adapters CMKpiAdapter and CMPolicyAdapter can be deployed with CP only from UCMDB 10.22 or earlier.</p> <p>You can just ignore the error messages.</p>
QCCR1H102405	<p>PROBLEM: When upgrading the Content Pack (CP), if the old CIM driver is not removed, the new CIM driver that is introduced in the new CP will not take effect, causing the Storage Management Initiative Specification (SMI-S) discovery jobs that need the new driver to fail.</p> <p>Manually remove the sblim-cim-client.jar file from the <DataFlowProbe_Home>\content\lib directory.</p>

ID	Issue
N/A	<p>PROBLEM: After you upgrade from UCMDB 10.20 to 10.21, 10.22, 10.30, 10.31, or 10.32, the following jobs are moved to the <<No module>> group in the Discovery Modules tree.</p> <ul style="list-style-type: none"> • DB2 Dependencies • F5 BIG0IP LTM Tunnel Job • IIS Application dependencies via URL • IIS Application dependencies via WebService • J2EE Application Dependencies via Context Root • J2EE Application Dependencies via JNDI • J2EE Application Dependencies via WebService • JEE WebSphere Connections by JMX for Top-down • JMS Destination Dependencies via JNDI • MessageQueue Dependencies via JNDI • Next-Hop Provider for Running Software • Next-Hop Provider • Oracle Access Management Dependencies • Oracle Dependencies • Oracle Schema Dependencies • Running Software Dependencies via TCP Connection • Running Software Dependencies via URL • SQL Server Dependencies • Tomcat Application dependencies via URL • URL Resolver • Web Server Dependencies via URL <p>These jobs are not used any longer.</p> <p>You can either delete them manually or leave them in the Discovery Modules tree.</p>
Universal Discovery - General	
N/A	<p>PROBLEM: If deploying the Universal Discovery agents from CP25 with a third-party tool, the UD agents may fail to communicate with Data Flow Probe if UCMDB is deployed with CP22 or an earlier Content Pack.</p> <p>None.</p>

ID	Issue
QCCR1H115484	<p>PROBLEM: (Upgrade only) After upgrading UCMDB from 10.30 to 10.31, 10.32, or 10.33, when running the JEE Weblogic by JMX job, all the CIs are reported normally; however, in the end an error message occurs to the job: "Failed to connect to remote process".</p> <p>To resolve the issue,</p> <ol style="list-style-type: none"> 1. On the Data Flow Probe machine, open the java.policy file (in the <DataFlowProbe>\bin\jre\lib\security directory) using a text editor. 2. Add the following permission: <pre>javax.management.MBeanTrustPermission "register"</pre> 3. Save the file. 4. Restart the Data Flow Probe.
Universal Discovery - Content	
N/A	<p>LIMITATION: In UCMDB 10.30 and earlier versions, using multiple threads in the event-based discovery may cause the missing of events. It is recommended to upgrade UCMDB to 10.31 or a later version. For UCMDB 10.30 and earlier versions, setting useMultiThreadForEventHub to false in globalsetting.xml; however, this operation may affect the performance of event-base discovery jobs. For details about this setting, see the "globalSettings.xml File" section in the <i>UCMDB Discovery and Integrations Content Guide - General Reference</i>.</p>
QCCR1H111011	<p>LIMITATION: The NTCMD protocol password cannot contain the following special characters: ^&</p> <p>Do not use the following special characters in the NTCMD protocol password: ^&</p>
N/A	<p>LIMITATION: When running the Microsoft SQL Server Always On Failover Cluster Instances discovery on both real IP addresses and cluster IP addresses, duplicate Microsoft SQL instances are reported.</p> <p>Exclude the cluster IP addresses of Microsoft SQL AlwaysOn Cluster from the discovery range.</p>
N/A	<p>LIMITATION: ASM does not support multiple domains in UCMDB 10.31 or later. None.</p>
N/A	<p>LIMITATION: ASM does not support discovering the running software and its related ConsumerProvider relationships on a Solaris Local zone. None.</p>

ID	Issue
QCCR1H99802	<p>PROBLEM: (db2_ipse_only trigger query only) The DB2 Universal Database Connection by SQL job returns "No credentials defined for the triggered IP" error. The triggered CIs that are triggered by the db2_ipse_only trigger query have no associated database instance, which is required to establish a connection. Then the job will get a database name from the DB2 credential. When no database name is defined in the DB2 credential, the job returns the error.</p> <p>When using the db2_ipse_only trigger query, it requires a database name in the DB2 credential. Make sure you define a database name in the DB2 credential.</p>
QCCR1H97603	<p>PROBLEM: When running the Mainframe topology by SNMP job and the Mainframe by EView discovery jobs, the zOS and Mainframe Logical Partition CI types that are discovered get merged.</p> <p>Do not use the Mainframe topology by SNMP job when you run the Mainframe by EView discovery jobs. If you have run the Mainframe topology by SNMP discovery before installing the EView mainframe agent, it is recommended to deactivate this discovery and delete any CIs that are created by this discovery.</p>
QCCR1H89922	<p>LIMITATION: Child CIs are no longer included in reconciliation rules when considering identification for Business Applications. An optional identifier based on the ID (App_ID) can be used to uniquely identify each Business Application CI. Business Applications that are synced from external sources must have a unique name or ID in order to be included during data synchronization. Note that multiple Business Applications with the same name and no ID will not be synchronized.</p> <p>Additional CI types for which child CIs are no longer included in reconciliation rules are Business Process, Business Service, CI Collection, Business Transaction Flow, and Dynamic Node Group. No optional identifier can be specified for these CI types.</p> <p>None.</p>
QCCR1H91943	<p>LIMITATION: The vCloud Director by vCloud API and vCloud Director URL by vCloud API jobs do not automatically discover VMware vCloud, because the httpcore.jar and httpclient.jar files no longer exist in the <Probe>/content/lib folder.</p> <p>To fix this issue, copy the httpcore.jar and httpclient.jar files from the <Probe>/discoveryResources/http folder to the <Probe>/content/lib folder.</p>
HPE Integrations	

ID	Issue
N/A	<p>PROBLEM: On the first synchronization from Service Anywhere to UCMDB, you may see an error message displayed similar to the following:</p> <pre data-bbox="467 380 1370 436">Integration Point doesn't exist. No adapter for given target.</pre> <p>To remedy this, do the following:</p> <ol data-bbox="467 512 1370 911" style="list-style-type: none"> 1. Log in to the UCMDB instance. 2. Go to Data Flow Management > Integration Studio. 3. Right-click the integration point: <endpoint name>_<tenant id>, and click Edit. The Edit Integration Point dialog box is displayed. 4. Deselect Is Integration Activated. 5. Click OK. 6. Reselect Is Integration Activated. 7. Click OK. 8. Go to the job in UCMDB and run a full synchronization.
Third Party Integrations	
N/A	<p>PROBLEM: In UCMDB 10.22 (or later), after deploying the ServiceNow_pull_integration_patch.zip patch, the ServiceNow integration does not work anymore.</p> <p>When deploying the ServiceNow_pull_integration_patch.zip patch on UCMDB 10.22 (or later), do not overwrite the existing files httplib.py and urllib2.py in the <DataFlowProbe_Home>/jython/lib directory. This is because Jython is upgraded to version 2.7 in UCMDB version 10.22.</p>
QCCR1H93029	<p>LIMITATION: Data population into UCMDB using ServiceNow integration jobs fail because a package called "suds" is missing.</p> <p>To fix this issue, download and install a patch on the Data Flow Probe to supply the missing package as follows:</p> <ol data-bbox="467 1409 1386 1793" style="list-style-type: none"> 1. Download the ServiceNow_pull_integration_patch.zip file from the <UCMDB_Server_Home>\DataFlowProbe\runtime\probeManager\discoveryResources\Service-Now-Pull folder. 2. Extract the patch archive into the Data Flow Probe's installation folder. As a result, the <DataFlowProbe_Home>/jython/suds folder is created, and two files (<DataFlowProbe_Home>/jython/httplib.py and <DataFlowProbe_Home>/jython/urllib2.py) are updated. You do not need to restart the Data Flow Probe.
FIPS Mode	

ID	Issue
QCCR1H100684	<p>LIMITATION: When the FIPS mode is on, the Universal Discovery Agent cannot start on the non-FIPS compliant HP-UX HPPA platform. Therefore, the FIPS mode for the Universal Discovery Agent is turned off in order to run the Universal Discovery Agent on the HP-UX HPPA platform.</p> <p>None.</p>
Inventory Discovery	
QCCR1H100769	<p>PROBLEM: When setting the <code>enableSSHSharedHomeDir</code> parameter to <code>true</code>, running the agentless Inventory Discovery by Scanner job fails on Linux platforms.</p> <p>To run the agentless Inventory Discovery by Scanner job successfully on Linux platforms,</p> <ol style="list-style-type: none"> 1. On your Linux instance, locate and open the <code>/etc/exports</code> file. 2. Add the <code>no_root_squash</code> parameter to the shared directory information. <p>For example, if you have the following line in the file:</p> <pre data-bbox="509 898 1370 1045">/home *(rw) where /home is shared directory, * means that everyone has access to it.</pre> <p>Then, add <code>no_root_squash</code> into the line as follows:</p> <pre data-bbox="509 1119 1370 1182">/home *(rw,no_root_squash)</pre> <ol style="list-style-type: none"> 3. Save the change.
Service Manager Integration	
QCCR1E118141	<p>PROBLEM: Cannot disable a field that does not have a mapping entry configured in the federation configuration file (<code>smFedConf.xml</code>).</p> <p>None.</p>
QCCR1E119726	<p>PROBLEM: Structure fields are not supported for pushing CIs from UCMDB to Service Manager.</p> <p>None.</p>
QCCR1E119141	<p>PROBLEM: The <code>Ignore on null</code> option is not supported for data push from UCMDB to Service Manager.</p> <p>None.</p>

ID	Issue
QCCR1E117760	<p>PROBLEM: The Visual Mapping tool is not disabled for some out-of-the-box XML mapping scripts in which the external class cannot be displayed in the External Class Model pane.</p> <p>Such out-of-the-box mapping scripts include:</p> <ul style="list-style-type: none"> • CLIP Downtime Population mapping script • Relationship push and population mapping scripts • Federation mapping scripts <p>None.</p>
QCCR1E118871	<p>PROBLEM: If a TQL query has different exposed fields for the child CI types of the root, the Visual Mapping tool cannot display all of the exposed fields. As a result, you cannot configure mapping for fields that are not displayed by using a drag and drop in the Visual Mapping interface.</p> <p>Configure mapping for the fields directly in the XML editor. Alternatively, split the query into multiple ones and then use the Visual Mapping tool.</p>
QCCR1E119548	<p>PROBLEM: CI relationship deletions cannot be synchronized to UCMDB through population.</p> <p>None.</p>

Enhancement Requests

The following table lists the enhancement type fixes in Content Pack 25.

ID	Component	Summary
QCCR1H99547	Universal Discovery - Content	Added support to discover EMC Isilon Filers via Storage Devices by SNMP Discovery.
QCCR1H105463	Universal Discovery - Content - Virtualization	Added Red Hat Virtualization Discovery to discover Red Hat Enterprise Virtualization Manager (RHEV-M) topology, such as RHEVM Cluster, RHEVM Datacenter, RHEVM Network, RHEVM Resource Pool, RHEVM VNIC Profile, RHEVM Volume, Red Hat Virtualization, virtualization hosts, hypervisors, and relationships between virtual machines and hypervisors, using REST APIs.

ID	Component	Summary
QCCR1H108880	Universal Discovery - Inventory Discovery	<p>Inventory Scanner can now discover Solaris Zone topology and Solaris LDOM topology.</p> <p>Added the following new job parameter to the Inventory Discovery by Manual Scanner Deployment and Inventory Discovery by Scanner jobs:</p> <p>discoverLDM. Specifies whether to report Solaris LDOM partitions.</p> <p>Note: If the value of this parameter is set to true and LDMs are discovered, UD Full (UDF) license is required.</p>
QCCR1H110184	Universal Discovery - Content - Layer2	Added a new normalization rule for serial_number_oid to discover the serial number of Aruba Network devices (Aruba 6000) by SNMP.
QCCR1H111536	Universal Discovery - Content - Network	Added a new job Firewall Topology by Shell to discover Juniper firewalls that contain virtual firewalls through SSH Protocol.
QCCR1H115698	Universal Discovery - Content - Storage - CIM	Added support to discover EMC Data Domain data via Storage Devices by SNMP Discovery.
QCCR1H116186	Universal Discovery - Inventory Scanner	The Inventory Discovery by Scanner job can now report more CPU related attributes about LPAR.
QCCR1H116350	Universal Discovery - Content - J2EE	Added support for customized paths when searching tnsnames.ora in J2EE WebSphere discovery.
QCCR1H116887	Universal Discovery - Content - Clouds - Amazon	Enhanced the existing Amazon Web Services (AWS) Discovery to support the discovery of Amazon Auto Scaling Groups.
QCCR1H117235	Universal Discovery - UD Agent	Added support to disable the Call Home events when deploying UD Agent. For details on how to disable Call Home, see "How to Disable Call Home" in the <i>UCMDB Discovery and Integrations Content Guide - General Reference</i> .

ID	Component	Summary
QCCR1H117296	Server - Class Model	Increased the size limit of the dnserver attribute for Domain Controller CI to 500 .
QCCR1H117399	Universal Discovery - Content - Web Services	Added support to discover JVM CIT by the JEE Weblogic by Shell job.
QCCR1H117464	UCMDB Browser - Assisted Modeling - Assisted Modeling	ASM can now read and parse the ports in the same line with the delimiter "," (comma) from portNumberToPortName.xml .
QCCR1H117617	UCMDB Browser - Service Modeling	ASM will report 1433 for the default TCP port and 1434 for the default UDP port when the default port number is not specified in the web.config file.
QCCR1H117638	Universal Discovery - Accurate Dependencies	Updated ASM configuration signature to support some special format in JDBC connection strings for JBoss server.
QCCR1H117642	Universal Discovery - Accurate Dependencies	ASM can now find the concrete site name according to the host name of entry point URL when there are multiple services deployed on the same IIS server with the same listening port but different URLs.
QCCR1H117643	Universal Discovery - Accurate Dependencies	The updated Related Database Schema layer will only show the concrete SQL Server instance according to the service context of ServiceConnectionPoint in the current service scope.
QCCR1H117727	Universal Discovery - Accurate Dependencies	ASM can now resolve the SiteMinder configuration file to report SiteMinder policy servers.
QCCR1H118042	Universal Discovery - Content - Clustering & Load Balancing - Cisco CSS	The Cisco Prime by Web Services job can now discover Cisco Access Points devices.

ID	Component	Summary
QCCR1H118114	Integration - Integration Adapters - Generic Push Adapter - ServiceNow	Added a mapping file sample about using the Reference link type for the ServiceNow Enhanced Generic Adapter in the "Sample Integration Population Query" section of the <i>UCMDB Discovery and Integrations Content Guide - Third Party Integrations</i> .
QCCR1H118289	Universal Discovery - Content - Layer2	Added a new normalization rule for Check Point 4800 firewalls (.1.3.6.1.4.1.2620.1.6.123.1.38).
QCCR1H118329	Universal Discovery - Accurate Dependencies	ASM can now discover web servers balanced by Varnish cache proxy by parsing the Varnish configuration files.

Fixed Defects

The following table lists the defects that were fixed in Content Pack 25.

ID	Component	Summary
QCCR1H103751	Integration - Integration Adapters - Generic Push Adapter - BMC Atrium	IP addresses and machines are incorrectly mapped to UCMDB by the Population from Atrium adapter when there is a large set of data. Now the IP addresses and machines are correctly mapped from BMC Atrium to UCMDB after implementing the code change.
QCCR1H111206	Integration - Integration Adapters - Generic Push Adapter - BMC Atrium	The Population from Atrium adapter merges results of distinct TQLs. Now this adapter works properly after implementing the code change.
QCCR1H116514	Universal Discovery - Content - Host Resources	The Host Applications by Shell job creates incorrect relationships between Weblogic AS and IpServiceEndpoint. Now this job works properly after implementing the code change.

ID	Component	Summary
QCCR1H116618	Universal Discovery - Content - J2EE	<p>The JEE Weblogic by Shell job fails with the following error message: "unbound method getName() must be called with Cluster instance as first argument (got Cluster instance instead)".</p> <p>This error will not appear after implementing the code change.</p>
QCCR1H116677	Universal Discovery - Content - Host Resources	<p>The Host Applications by Shell and Apache Tomcat by Shell jobs return incorrect IpServiceEndpoint.</p> <p>Fixed the application signature to report the proper IP address and Port data.</p>
QCCR1H116701	Universal Discovery - Content - Virtualization - Hyper-V	<p>The Hyper-V Topology by Shell job neither creates all the physical-to-virtual connections nor receives any errors.</p> <p>Fixed the issue by reporting other hosts when they have the same Device ID, using SystemName instead.</p>
QCCR1H116815	Reconciliation - Engine	<p>Added the DDM_REQUIRED_TOPOLOGY qualifier for hana_db CIT in order to avoid a wrong merge when running the HanaDb Topology by SQL job.</p>
QCCR1H116883	Universal Discovery - Data Center Discovery	<p>Oracle Data Guard CIs do not have the name attribute.</p> <p>Fixed the issue by filling in the name attribute of Oracle Data Guard CI by the Oracle Topology by SQL job.</p>
QCCR1H116912	Universal Discovery - Inventory Discovery - Inventory Discovery	<p>Added support for sudo configuration matching for any UNIX Shell with sudo configured in case double quotation marks and single quotation marks are used in full path.</p>
QCCR1H116936	Universal Discovery - Content - Host Resources	<p>Need to discover PA-RISC HP-UX systems by the Host Resources by Shell job, and the command that is used for CPU core discovery does not exist in the OS.</p> <p>The Host Resources by Shell job can now discover CPU cores on PA-RISC HP-UX systems properly.</p>
QCCR1H116984	Universal Discovery - Content - J2EE	<p>The JEE Weblogic by Shell job fails with the following error message: "unbound method getPid() must be called with Process instance as first argument".</p> <p>This error will not appear after implementing the code change.</p>

ID	Component	Summary
QCCR1H116985	Universal Discovery - Discovery Execution - Rules Engine	<p>ClassType flips between load balance and switch due to normalization rules for OID .1.3.6.1.4.1.1872.1.13.1.4.</p> <p>Fixed the issue by aligning the ClassType of Alteon devices between normalization rule (snmp.gz) and oidToHostClass.xml.</p>
QCCR1H117038	Universal Discovery- Inventory Scanner	<p>There are no clear instructions on how to deploy UD Agent with a technical user (non-admin user) using sudo and no SSH credentials configured on UCMDDB in order to run Inventory Scanner that should discover all the hardware data on a UNIX node.</p> <p>Fixed the issue by always setting the access attribute of aioptionrc as 666 (rw-rw-rw-).</p>
QCCR1H117129	Universal Discovery - Automated Software Recognition	<p>The ports from portnumbertoportname.xml are ignored if they are in upper case in automated discovery cases.</p> <p>Now the ports from portnumbertoportname.xml are case insensitive.</p>
QCCR1H117239	Universal Discovery - Inventory Scanner	<p>When running both Host Connection by Shell and Inventory Discovery by Scanner, sometimes the serial number changes values.</p> <p>Fixed the issue by changing the way to get the serial number on the Inventory Discovery by Scanner side so that the values will be consistent.</p>
QCCR1H117273	Universal Discovery - UD Agent	<p>AIX UD Agent installation fails with the following error message: "Failed to load library '/usr/lpp/HP/Discovery/bin/libssl.so'".</p> <p>AIX UD Agent installation now works properly after implementing the code change.</p>
QCCR1H117317	Universal Discovery - Content - Storage - CIM	<p>The Storage Devices Topology by CIM job fails with the following error message: "TypeError: int: can't convert non-string with explicit base".</p> <p>Now this job works properly after implementing the code change.</p>
QCCR1H117341	Universal Discovery - Content - Database	<p>When running the Oracle Applications by SQL job for discovering the ERP applications, it fails to report data because of no key attribute name in CI DB Tablespace.</p> <p>The Oracle Applications by SQL job will not report DB Tablespace when it has no name.</p>

ID	Component	Summary
QCCR1H117411	Universal Discovery - Content - Clustering & Load Balancing - F5 BIG-IP	<p>The correct number of load balancers is not discovered by the F5 BIG-IP LTM by SNMP job.</p> <p>Fixed the Data Flow Probe redundancy filtering issue by adding a new hidden random generated ID attribute lb_cluster_id to the CIT definition.</p>
QCCR1H117425	Universal Discovery - Content - Virtualization - VMware	<p>The VMware vCenter Topology by VIM job cannot discover the VMware topology correctly.</p> <p>Now this job can discover the VMware topology correctly after implementing the code change.</p>
QCCR1H117466	Universal Discovery - Content - Virtualization - VMware	<p>The VMware vCenter Topology by VIM job fails with an internal error.</p> <p>Now this job works properly after implementing the code change.</p>
QCCR1H117469	Universal Discovery - Content - Host Connections	<p>zOS CIs are merged into Mainframe CIs after running the Host Connection by SNMP and/or Host Networking by SNMP jobs.</p> <p>Fixed the normalization rules to resolve the incorrect merge issue.</p>
QCCR1H117517	Universal Discovery - Content - Host Resources	<p>JBoss AS discovery either results in error (using Host Applications by Shell) or is incomplete (using JEE JBoss by Shell job).</p> <p>JBoss AS discovery works properly without errors after implementing the code change.</p>
QCCR1H117561	Universal Discovery - Inventory Scanner	<p>OSHostWindowsName is scanned as Windows 8; however, it should be Windows Server 2012 Std Evaluation.</p> <p>Fixed the issue by setting Windows name as Windows Server 2012 Std Evaluation.</p>
QCCR1H117639	UCMDB Browser - Service Modeling	<p>When non-printable characters exist in a web.config file, the host discovery of an IIS server will not discover database connections.</p> <p>Fixed the issue by filtering out non-printable characters during parsing the web.config file.</p>
QCCR1H117644	Universal Discovery - Service Discovery - Backend	<p>If server.xml is not found during Tomcat discovery, exceptions are thrown.</p> <p>Fixed the issue by preventing reading the Tomcat server.xml that does not exist.</p>

ID	Component	Summary
QCCR1H117663	Universal Discovery - Content - Host Resources	<p>The Host Resources by Shell and Host Applications by Shell jobs fail to detect CPU on HP-UX.</p> <p>These jobs can now detect CPU on HP-UX correctly after implementing the code change.</p>
QCCR1H117671	Universal Discovery - Automated Software Recognition	<p>When discovering UCMDB, the database is not reported by the Host Discovery by Shell job if the database is MSSQL Server.</p> <p>MSSQL Server does not have the SID. Use the short host name instead.</p>
QCCR1H117698	Universal Discovery - Service Discovery - Backend	<p>ASM discovery of UCMDB gives the following false warning message in the communication logs for 10.x discovery: "Failed parsing cmdb config file (history part)".</p> <p>Starting with UCMDB 10.x, the database information does not have history. So only record the history database in UCMDB 9.x.</p>
QCCR1H117780	Universal Discovery - Inventory Scanner	<p>The scanner cannot scan a Linux system successfully or produce a scan file.</p> <p>Now the scanner can produce a scan file successfully even if encountering the "ioctl(...SIOCGIFADDR...)" error while detecting DNS information.</p>
QCCR1H117891	Universal Discovery - Content	<p>The attribute discoveredOsVendor flips when running Host Connection by Shell and Inventory Discovery by Scanner discovery jobs.</p> <p>Fixed the issue by implementing the similar logic to populate the attribute DiscoveredOsVendor for the Host Connection by Shell job.</p>
QCCR1H117930	Universal Discovery - Content - Storage - CIM	<p>The Storage Devices Topology by CIM job fails to discover IBM storage devices.</p> <p>IBM storage discovery now works properly after implementing the code change.</p>
QCCR1H117932	Integration - Integration Adapters - Generic Push Adapter - ServiceNow	<p>Added support for setting a string list type (node_role) value via mapping file for old legacy ServiceNow push integration adapter.</p>

ID	Component	Summary
QCCR1H118014	Universal Discovery - UD Agent	<p>After upgrading to Content Pack 24, the UD Agent creates a Program folder.</p> <p>Added double quotation mark (") around the directory while executing the <code>mkdir</code> commands to avoid creating such a folder.</p>
QCCR1H118018	Universal Discovery - Inventory Scanner	<p>UD Scanner version 10.30 fails with the following error message: "Fatal program failure, code #11".</p> <p>Fixed the issue by excluding some invalid directory of software.</p>
QCCR1H118040	Universal Discovery - Content - J2EE	<p>The JEE Weblogic by Shell job fails with the following error message: "unbound method getName() must be called with Server instance as first argument (got Server instance instead)".</p> <p>This error will not appear after implementing the code change.</p>
QCCR1H118041	Universal Discovery - Discovery Rules Engine	<p>Added a new normalization rule for HPE Virtual Connect FlexFabric (OID .1.3.6.1.4.1.11.5.7.5.6).</p>
QCCR1H118084	Universal Discovery - Inventory Scanner	<p>The XML Enricher fails to parse the scan file if the scan file contains the iSCSI information.</p> <p>Now the XML Enricher parses the scan file properly after implementing the code change.</p>
QCCR1H118087	Universal Discovery - Content - Host Resources	<p>Some Websphere AS CIs are missing the administrationDomain attribute.</p> <p>The administrationDomain attribute can now be reported after implementing the code change.</p>
QCCR1H118112	Universal Discovery - Content - Clouds - Amazon	<p>Some HTML code appears in the Cloud Instance ID attribute when discovering the Cloud.</p> <p>If the result of curl http://169.254.169.254/ contains HTML code, the Cloud Instance ID attribute will not be reported.</p>
QCCR1H118175	Universal Discovery - Content - Host Resources	<p>The Host Applications by WMI job truncates Microsoft DNS Server version.</p> <p>The version can now be reported in full after implementing the code change.</p>

ID	Component	Summary
QCCR1H118207	Universal Discovery - Content - TCP and P2P	<p>The Network Connectivity Data Analyzer job fails if data that is collected on the Data Flow Probe contains invalid IP addresses.</p> <p>Do not select the IP address like 0.0... when collecting data from database.</p>
QCCR1H118309	Universal Discovery - Content - TCP and P2P	<p>When sending NetFlow version 10, the dPkts and dOctets fields are not filled out in the traffic links, nor in the Postgres database of the Data Flow Probe.</p> <p>Now the dPkts and dOctets fields are correctly populated and recorded to Data Flow Probe database after implementing the code change.</p>
QCCR1H118347	Universal Discovery - Discovery Troubleshooting	<p>The Azure by Webservices job fails after the communication log shows all data has been collected from Azure and the Azure.py script is building the OSH.</p> <p>This job now works properly after implementing the code change.</p>
QCCR1H118378	Universal Discovery - Content - Host Resources	<p>Two separate nPars with the same name from different complexes are merged by the HP nPars and vPars by Shell job.</p> <p>Fixed this issue by adding the complex serial number to nPars.</p>
QCCR1H118492	Universal Discovery - Inventory Scanner	<p>AIX inventory scan fails because it cannot save large stored files.</p> <p>Fixed the issue by using another memory allocation method for huge memory allocation.</p>

Send documentation feedback

If you have comments about this document, you can [contact the documentation team](#) by email. If an email client is configured on this system, click the link above and an email window opens with the following information in the subject line:

Feedback on Release Notes (Universal CMDB Content Pack 25.00 (CP25))

Just add your feedback to the email and click send.

If no email client is available, copy the information above to a new message in a web mail client, and send your feedback to cms-doc@microfocus.com.

We appreciate your feedback!