



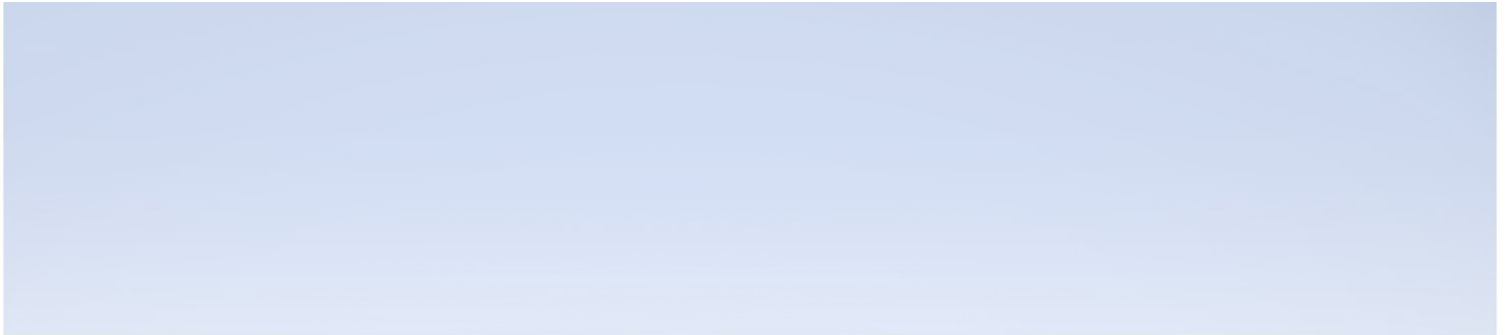
Hewlett Packard
Enterprise

Application Performance Management

Version 9.40, Released August 2017

Release Notes

Published September 2017



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The title page of this document contains the following identifying information:

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Application Performance Management Release Notes

This document provides information about Application Performance Management (APM) 9.40.

What's New in This Release

APM 9.40 includes new functionality, customer escalation fixes, and internal bug fixes. To view a full list of new features and enhancements in APM 9.40, select **Help > What's New** in APM, or download the [What's New document](#) from the [HPE Software Support](#) site.

APM Support Matrixes

APM system requirements and support matrix information, including APM server and database support matrixes as well as support and compatibility data for APM data collectors and other APM components, is now located in the separate [APM System Requirements and Support Matrix](#) document, located on the [HPE Software Support](#) site.

Information about supported integrations between APM and other HPE or third-party software is now available on the [HPESW Solution and Integration Portal](#) (requires HPE Passport login). Every integration listed includes a description of the integration, support matrix, and links to integration configuration documentation.

Installation Instructions

Before installing APM 9.40, review the system requirements in the [APM System Requirements and Support Matrixes Guide](https://softwaresupport.hpe.com/km/KM02505665) (https://softwaresupport.hpe.com/km/KM02505665).

For complete instructions on installing this software, see the relevant documentation:

Current BSM/APM version	Notes	See instructions in:
New customers	-	APM 9.40 Installation Guide . https://softwaresupport.hpe.com/km/KM02505639
Existing customers upgrading from APM 9.3x	-	APM 9.40 Upgrade Guide (https://softwaresupport.hpe.com/km/KM02505666)
Existing customers upgrading from BSM version 9.25 or 9.26	<p>You must upgrade your existing BSM to APM 9.30 with the latest patch and then upgrade to APM 9.40.</p> <p>If you are using the staging upgrade option (from BSM 9.25/6) with the standalone SDR, you need to use the 9.30 SDR. You can also use the 9.30 SDR to send the samples from BSM 9.25/6 to the staging APM 9.30.</p> <p>When you will upgrade the staging APM 9.30 directly to APM 9.40, you can use the same 9.30 SDR to send samples to APM 9.40.</p>	<ol style="list-style-type: none">1. APM Upgrade Guide - BSM 9.25 or 9.26 to APM 9.30 https://softwaresupport.hpe.com/km/KM022254692. APM 9.40 Upgrade Guide https://softwaresupport.hpe.com/km/KM02505666

The most updated versions of these documents are available from the [HPE Software Support](https://softwaresupport.hpe.com) site.

Note: If you are upgrading to APM 9.40 and are running Red Hat Enterprise Linux 5.x, upgrade your operating system to Red Hat Enterprise Linux 6.x or 7.x and then perform the upgrade using the Direct upgrade method.

[APM 9.40 Planning Guides Package](#), which contains:

- Getting Started Guide
- Deployment and Capacity Planner (Capacity Calculator)
- System Requirements and Support Matrixes Guide

- Database Guide
- What's New document

APM 9.40 Deployment Guides Package, which contains:

- Release Notes
- Database Guide
- Installation Guide
- APM Upgrade Guide
- Smart Card Authentication Configuration Guide
- Hardening Guide

Updated Components

The following updated components have been released in parallel to APM 9.40 with new features and/or bug fixes. For more information about the features and fixes included in each component, see the documentation included with the component. The [APM What's New document](#) also lists key new features for updated components.

Components must be downloaded separately from either the software updates (major/minor releases, e.g., 9.00 or 9.20) or from software patches (patch releases, e.g., 9.13, 9.23). Both software updates and software patches can be accessed from the [HPE Software Support](https://softwaresupport.hpe.com) site (<https://softwaresupport.hpe.com>).

- **Real User Monitor 9.40**

For instructions on installing Real User Monitor (RUM), see the Real User Monitor Installation and Upgrade Guide, accessible with RUM or from the [HPE Software Support](#) site.

- **Business Process Monitor 9.40**

For installation instructions, see the Business Process Monitor Deployment Guide, available with BPM or from the [HPE Software Support](#) site.

- **SiteScope 11.40**

For installation instructions, see the SiteScope Deployment Guide, available with SiteScope or from the [HPE Software Support](#) site.

- **Data Flow Probe 10.32**

For installation instructions, see the [Data Flow Probe for APM 9.40 Installation Guide](#), also available from the [HPE Software Support](#) web site.

Note: APM 9.40 will only work with the version of the Data Flow Probe associated with the 9.40 release. Make sure to download and install the correct Probe from the Software Patches page. The Data Flow Probe 10.32 setup file is titled **HPEAPM9.40_DataFlowProbe_10.32.exe**.

- **System Health for APM 9.40**

For installation instructions, see the System Health User Guide, available with System Health or from the [HPE Software Support](#) site.

Note: System Health for APM 9.40 will only work with APM 9.40. It will not work with any earlier versions of APM.

- **Diagnostics 9.40**

For installation instructions, see the following guides, available with Diagnostics or from the [HPE Software Site](#) site:

[Diagnostics Server Installation and Administration Guide](#)

[Diagnostics Collector Installation Guide](#)

[Diagnostics Java Agent Guide](#)

[Diagnostics .NET Agent Guide](#)

Fixed Customer Encountered Defects

The following is a list of fixed customer encountered defects. They are listed according to product and version and are identified by a Change Request number (QCCRxxxxxxx). Use this number when looking for more information about the problem on the [HPE Software Support](https://softwaresupport.hpe.com) web site (<https://softwaresupport.hpe.com>), or when communicating with your HPE Support representative.

Fixed in APM 9.40

Issue ID	Summary
100925	Show AM/PM or 24 hour time column headers for BPM Performance Over Time report
101464	In BSM 9.23, the right-click of "Insert new model" in the Modeling Studio does not always function correctly
106816	The error "The number of CIs to display is larger than the set limit. Ask the system administrator for assistance or contact HP Customer Support" is incorrect
109657	NOA tasks are failing with the error "Arithmetic overflow error converting expression to data type int"
111783	The Max Data Points is correct for BPM reports, but not for RUM reports
113726	When configuring a custom report with Transaction Breakdown components for graph + table for two applications, the data for the first application is duplicated.
114228	The Watch List component shows the actual time for the CIs instead of "last status change" time
116386	Question regarding BAC upgrade from 8 to 9
119139	The Post Installation Wizard does not verify host names if the last label has a hyphen '-'
119730	BLException: no.active.model.error caused by configuration server wizard execution order
119786	Hierarchy personalization is not saved after a user logs out of BSM
119788	CiChange wiring does not work from Watch List to Hierarchy components when KPI status filter is applied to Hierarchy component
119821	A browser configured with a non-English locale fails to show the License Management UI
120223	HometQ configuration is not created correctly for HA deployment with two typical servers
120431	Header/Footer of scheduled reports does not accept HTML code
120515	DBVerify utility throws error when column "default" is added by a third party database client

Issue ID	Summary
120519	Use localhost for PDF report generation
120595	Need to be able to configure multiple Secure Reverse Proxies in APM
120672	Cannot validate if HornetQ component is working properly by using the web console
120767	Running executable fails if there are spaces in msg_text argument
120789	BSM does not allow the following characters in EUM Alert names: [()~+{}]
120937	Editing an existing report in Report Manager from Application Health to Application Summary returns "An Internal error has occurred"
120948	EUM Alerts Dependency does not work correctly in some cases for alerts configured with data grouping if follow-up is triggered
120962	RTSM returns error 500
120988	"Make this my default profile DB" checkbox is checked after discarding changes on the page
121052	Out of Memory error occurs if bus monitor group is enabled in System Health
121096	Unable to start BSM when the directory <HPBSM>\log doesn't exist
121273	MyBSM pages - In view explorer component, view is not always saved correctly
121377	APM - OMI downtime synchronization failure
121684	MyBSM - Tooltips in reports are blocked by the bottom edge of the window
121773	System Health BLE Offline engine in error
121942	Add limitation to the KPI Assignment section in the Service Health Admin Best Practices guide about the number of assigned HIs.
122165	Invoking retrieveTotalSessionCount JMX in Active Topaz Sessions opens a connection to the JBoss management CLI but does not close it
122166	"Business logic engine service is currently unavailable" error in Top View for views with Group by Query Node Manual Hierarchy Method selected
122544	Unable to export reports as pdf from Applications > User Reports
122687	URL generated with "Link to this page" functionality is redirecting to HTTP instead of HTTPS, when "embedded link" is selected and Load Balancer is used
122753	QA support for Java 8 Update 101 on BSM
122784	In an HA deployment with two typical servers, CIs in Top View may assume 'No data' status when both servers are online
122787	Document encryptedCredentials=true parameter
122816	APM - OMi integration cannot be created properly

Issue ID	Summary
122949	Viewing EUM snapshots yield 403 access prohibited error
123039	EUM data is not aggregated when the application has been stopped
123574	Unable to set maxcolumns for DynamicTableRenderer
123592	Sorting order of report is different online than offline
123673	Cross Site redirect caused by problem retrieving direct.centers.server.url infrastructure setting.
123697	Filter report - "Raw data" option is disabled in "Month" view
123836	App Health Mobile App stops working after opening it again
124000	Lasting CI Status Alerts assigned to Local Impact Views are sent with delay
124016	Hierarchy component not displaying correctly on first load when a filter is applied
124108	Login.jsp - Login form always posts autologin = yes
124207	CSV file for report manager list is empty - null recipient
124208	Scheduled reports lose personalization
124231	Limitation in the length of "Database name " and "SQL server authentication User Name " in creating profile database
124330	OMi page wiring --ViewChange/CI change
124501	Metric disappears from filter when choosing Unix measurement for Cross Performance report
124673	\HPBSM\jboss-as\standalone\log huge disk space usage on DPS
124984	Out of Memory error occurs if refresh rate interval was set in custom report
125018	APM Certified using Oracle Container DataBases (CBD)
125044	Missing checkboxes under Report Manager > Create new schedule for selected report when the browser is in French
125146	HI CI Summary report: CI hierarchy is not showing correctly in generated PDF
125228	Wrong redirection after login if Application Health is set as Default Entry Context
125824	Default Entry Context and Default Entry Page not inherited from group settings for LDAP users who log in for the first time
126045	Embedded link on this page doesn't work for Metrics Over Time report when user is not logged in
126253	WDE not able to publish samples if system has two NICs. No data arrives in APM
126502	Trend report does not accept IMG tag

Fixed in BPM 9.40

Issue ID	Summary
119904	BPM configuration updates not working intermittently
120813	In TruClient scripts, during scheduled execution, the "profiles/load/user_state" folder is deleted.
121788	In the BPM Administration Guide, the procedure to turn on REST API functionality is incorrect.
121758	Site instance authentication in BPM
120284	Extended log option reset to default after BPM restart
120497	Questions about Business Process Monitor Administration document
122243	BPM intermittently stops sending samples and does not resume
122267	Too many orphan TcWebIELauncher.exe processes are left behind bringing BPM systems into an inconsistent state
106862	LR_EXIT function lr_exit(LR_EXIT_VUSER_AFTER_ACTION , LR_PASS) in VuGen behaved differently in previous versions
118341	Discrepancies in Performance Analysis Report "Error" and its drill down.
121705	Missing TruClientWeb in SnapshotSupportedProtocols list in agent1.cfg
124811	BPM does not generate snapshots correctly
124950	BPM locations samples are not sent to APM until BPM is restarted
124981	APM shows "No data" in BPM Webtrace Report
124359	No Error Snapshot is generated on BPM for some TruClient scripts
120500	BPM silent installation deployment through Client Automation package fails
118886	TruClient Web script failed to run in BPM
119878	APM truncating Auditlog entries
119868	In the Performance Analysis Report, "Server Time to First Buffer" and "Network Time to First Buffer" show a minus sign (-).
121335	Questions regarding Performance Raw Data report
121905	Cannot upload scripts that contain dots "."
121910	TruClient script does not create SnapshotOnError
122136	EUM tabs are sometimes grayed out

Issue ID	Summary
124985	BTs do not display in the same order in EUM Reports as defined in Report Configuration
126037	In the Analysis Report, Metrics Over Time with Time Comparison option for View as table is not correct
126236	BPM license change from Single to Unlimited and vice-versa throws an error
123820	In Application Health, App Overview and BPM are not working in Load Balancer
124012	Script size is not accurate when downloading from Script Repository

Fixed in RUM 9.40

Issue ID	Summary
119927	RUM Application Infrastructure Summary Report - Connection Availability(%) status
122342	Not able to save the settings for RUM applications when HTTP frontend and mobile backend are assigned to the same engine
123499	Snapshot Replay button on RUM reports is not working on all non English locales
126945	In the Management database table, EUMRUM_ENGINES field URL_PW is set to NULL value
117977	Pop-up UI error message when synchronizing configuration in RUM
120816	RUM CM Probe does not use maxSessions and sessionMaxIdleTime values from cm.properties file
121054	Sample thrown: No container was resolved
121176	RUM Session Summary report issue
121281	Admin password not retained during upgrade
121375	Client Monitor probe's Active Sessions count goes beyond probe's maxSessions configuration value
122448	RUM Session Details report sometimes shows "There was a problem retrieving data from Real User Monitor Engines." when RUM engine has no data for the selected session
122450	RUM Session Details report's General Event's section sometimes shows "There was a problem retrieving data from Real User Monitor Engines." when the crash event contains invalid unicode characters
122900	RUM Engine Data Publisher should modify double quotes (") before exporting data to CSVs
123241	Incorrect data with future startTime in RUM Session Analyzer report

Issue ID	Summary
123670	Need meaning of errors: Error while parsing Probe channel line. Error while parsing field "x-session-bytes [session bytes]" - bad int format

Fixed in SIS 11.40

Fixed in Diag 9.40

Issue ID	Summary
123312	NullPointerException reported in mediator logs at MRUHashMap\$MRUEntry.recordaccess
124449	Blank page when accessing "Applications > Diagnostics" in APM
124844	Failed to see SOAP calls from Java probe 9.26 on JBOSS EAP 6.4.12, Java 7
124802	Why is XDRGenericInputStream regenerated?
120356	Mediator servers reporting many "persistence of entity" warnings
124082	Cannot upgrade/install Diagnostics Server 9.30
124885	Specific webAPI errors when enabling domain with Diagnostics NET agent 9.26 IP2
123982	Difficulties in connecting Mediator and Commander by TLS
126551	Automatic Probe Assignment fails after upgrade to 9.30

Notes and Limitations

Problems and limitations are identified with a Change Request number (QCCRxxxxxxx). Use this number when looking for more information about the problem on the [HPE Software Support](https://softwaresupport.hpe.com) web site (<https://softwaresupport.hpe.com>), or when communicating with your HPE Support representative.

To see the most updated status of limitations listed in this section, new limitations published after version release, or generally to view a list of known problems for a specific product and/or version, on the [HPE Software Support](https://softwaresupport.hpe.com) web site sign in and click **Search**. Select the relevant product, version, and operating system (for example, Application Performance Management (BAC) > 9.40 > Windows), and select **Known Problems** in the **Document types** area. You can also search for a specific CR using the search box at the top of the Self-Solve Knowledge Search page.

General and Deployment

Post Install cannot find the installed web site. IIS10 on Windows 2016 Standard/Datacenter Edition (QCCR1I125841)

APM does **not** support Microsoft Internet Information Services (IIS) 10.

APM supports Windows Server 2016 Standard/Datacenter Edition (64 bit) with Apache HTTP Server, however, there will be a slight degradation in performance during installation.

CAC: Java applets are not loaded in some cases (QCCR1I118356)

Description: Java applets are not loaded in some cases. The following error appears: Error signing certificate verify.

Workaround: If this error occurs, use custom mode instead of Full CAC mode for Smart Card Authentication configuration (CAC) mode.

Customized version of httpd-ssl.conf file might be overwritten (QCCR1I41178)

Description: If APM is configured for secure access (using Apache + SSL), APM uses a customized version of the file `httpd-ssl.conf` on the Gateway Server. This file might be overwritten during the upgrade with a standard version of the file, breaking the configuration.

Workaround: Before upgrading, backup the customized file `<APM root directory>\WebServer\conf\extra\httpd-ssl.conf`. Then reapply the changes to `httpd-ssl.conf` using the backup version as a reference to the location of the certificate files.

High Availability Controller cannot move services (QCCR1I46345)

Description: If there is a problem with one of the `marble_*` processes (for example, one of the processes cannot start), you must disable the `marble_supervisor` process. If this process is not disabled, the High Availability Controller (HAC) cannot move the process' services (such as the DASHBOARD service that controls Service Health) to another Data Processing Server if there is a problem with the primary server.

Workaround: Disable the marble_supervisor process. HAC will move DASHBOARD service to another DPS.

Restart of APM may be required after database outage (QCCR1146504)

Description: If the management database was down or unreachable and the connection has been restored, you may have to restart APM.

Workaround: Restart APM when the management database is available again.

Adding additional Gateway servers with differing paths causes login failures (QCCR1147337)

Description: If two Gateway servers are installed onto different drive paths, for example, one was installed onto the C:\ drive and the other onto the E:\ drive, APM may not be able to be accessed.

Workaround: Create a duplicate path on the C:\ drive by copying E:\<APM root directory>\conf\settings to C:\<APM root directory>\conf\settings.

Upgrade will fail if IDM-SSO is enabled in the source environment (QCCR1158648)

Description: If you are using IDM-SSO, upgrade will fail if IDM-SSO is enabled in the source environment but not yet configured in the target environment.

Workaround: Disable IDM-SSO on the APM Gateway Server before running the configuration upgrade in the target environment. To do so:

1. Log into the JMX console (<http://<Gateway Server name>:29000>) and search for the SSO service (**service=SSO**).
2. Locate the **setSingleSignOnMode** operation and in the ParamValue box, type **Lightweight**.
3. Click **Invoke**.

IDM-SSO can be re-enabled after APM is up and running from within APM (**Admin > Users and Permissions > Authentication Management wizard**).

Platform

Authentication: When HPE Application Performance Management is installed with an Oracle Database and User Synchronization enabled with an LDAP Active Directory server, ensure that you login to HPE Application Performance Management with the correct-case UID (uppercase or lowercase), as configured on the LDAP server. This is because while the Oracle Database is case-sensitive, the LDAP Active Directory is not case sensitive, and logging in with an incorrect case UID can create undesirable results.

For example, if a user called **testuser** exists on the LDAP Active Directory server and logs into HPE Application Performance Management, he is automatically created as HPE Application Performance Management user **testuser**, who can be assigned permissions in the HPE Application Performance Management User Management interface. If you then login to HPE Application Performance Management as **Testuser**, the LDAP Active Directory server sends an acknowledgement that the user exists (because Active Directory is not case sensitive) and he is allowed entry to HPE Application Performance Management. However, since the Oracle Database does not identify this user as **testuser** (because the Oracle Database is case sensitive), the user **Testuser** is treated as a new user, without the permissions that were assigned to **testuser**.

NLS_LENGTH_SEMANTICS: The recommended setting for Oracle parameter NLS_LENGTH_SEMANTICS is the default setting of BYTE; setting this value to CHAR may affect database performance.

Infrastructure Settings: Changes to infrastructure settings are not included in the Audit Log.

Schema Creation: You cannot create a schema that starts with a digit.

Downtime notifications may not be sent if the Data Processing Server is down (QCCR1144964)

Description: If the Data Processing Server is down for any reason, notifications of downtime starting and ending during the time period when the Data Processing Server was down may not ever be sent. Notifications sent to recipients regarding downtimes are configured during downtime creation.

Workaround: None.

Java applets may fail to load (QCCR1157396)

Description: Java applets may fail to load intermittently.

Workaround: If a Java applet in APM fails to load, clear your Java client cache:

1. In the Windows Control Panel, click **Java**.
 2. On the General tab, select **Settings > Delete Files**.
-

Applets fail to load when "Internet Explorer Enhanced Security" is enabled (QCCR1159140)

Description: In some environments, certain applets fail to load when **Internet Explorer Enhanced Security** is enabled on the client machine (for example, the **LDAP Group Mapping Wizard**).

Workaround: Disable Internet Explorer Enhanced Security on the client machine (for example, **Control Panel > Add/Remove Programs > Add/Remove Windows Components > scroll down to Internet Explorer Enhanced Security Configuration** and uncheck the box).

Login page does not load if accessing through LB in separate domain from APM (QCCR1160724)

Description: When connecting to APM using an FQDN, you still see the following error in the login screen: The HPE Application Performance Management URL must include the Fully Qualified Domain Name (FQDN).

Workaround: Retype the HPE Application Performance Management URL in the address bar, and check if there is a DNS resolution for Load Balanced virtual IPs from the APM gateways.

MIB validation program returns multiple issues (QCCR1178961)

Description: MIB validation program returns multiple issues.

Workaround: None.

Personalization for Downtime Management (QCCR1191787)

Description: Users who are assigned Full Control permission on the Downtime resource can modify all CI Downtimes (even CI Downtimes created by another user with Full Control permission on Downtimes). The problem is that users should NOT be able to disable or modify downtimes that they did not create.

Workaround: None.

User names in multiple LDAPs must be unique (QCCR11102048)

Description: Users created on different LDAPs with the same user name unite to a single user. Therefore, user names in multiple LDAPs must be unique.

Workaround: None.

Integrations

EMS Integration:

- The maximum size of an expression in the EMS Integration configuration file is 4000 characters.
 - An EMS monitor may not find its configuration file when upgrading the SiteScope version. In such cases, manually copy the contents of the configuration file to the EMS monitor configuration in the user interface.
-

In the APM-Diagnostics integration (Admin>Diagnostics) an error occurs on short-name and there is no way to re-enter the FQDN (QCCR1162229)

Description: You should use the FQDN when registering the Diagnostics Server with APM . However if you entered a non-FQDN for the Diagnostics Server you could get stuck in a registration problem loop.

Workaround: Use the URL below and substitute the “topazhost” name in the URL with the FQDN of the APM Gateway Server to clear the Diagnostics Configuration page in APM:

http://topazhost/opal/uibrIDGE/action/registration.do?action=set_registration&customer_name=Default%20Client&opal_protocol=&opal_port=&opal_full_host=

Diagnostics > APM 9.30 limitation due to OMi removal. (QCCR11118157)

In previous releases of BSM, Diagnostics sent CIs, metrics, and events to BSM. Health Indicator status (coloring) for the Application Infrastructure CIs was based on events sent to BSM through the OMi event channel.

In APM 9.30, due to the OMi removal, Diagnostics sends events to OMi and continues to send CIs and metrics to APM. As a result of this change, the Application Infrastructure CIs (Diagnostic Probe, Oracle/MSSql Database, IBM WebSphere MQ, WebSphere AS Dynamic Caching, IBM WebSphere MQ, IBM MQ, WebLogic AS, JBOSS AS, SQL Server, MSSQL Database, Oracle iAS, Oracle, SAP, SAP R3 Server, VMware ESX Server, Host Node) do not show the correct HI Status in APM 9.30.

The HI status for these CIs appears as Undetermined (blue question mark). If you are upgrading from BSM 9.2x to APM 9.30, the last status received for the CI before the upgrade will be displayed.

Workaround: To enable sending events related to threshold violation in Diagnostics to OMi, in the **serverbin** directory of the Diagnostics server :



1. Run **cscript switch_ovo_agent.vbs -server <FQDN of OMi> -cert_srv <FQDN of OMi>**.
 2. Go to **OMi Administration > Certificate Requests** and grant certificates.
 3. Run **cscript switch_ovo_agent.vbs -server <FQDN of OMi> -cert_srv <FQDN of OMi>** again. All tasks should now display correctly.
-

SiteScope re-direct to HTTPS APM 9.30 does not work. (QCCR11118851)

When redirecting SiteScope from BSM 9.26 to APM 9.30 using the staging upgrade, the following error appears:

“Failed to re-register to HPE Application Performance Management: Calling to BAC API failed.”

Workaround:

1. Go to **APM 9.30 > Administration > System Availability Management**.
2. In the Summary pane, select the SiteScope integration and click . The integration will automatically be deleted from the SiteScope side.
3. Click  to create the integration again.

Operations Orchestration (OO) REST Integration instead of SOAP (QCRQ1167601)

Problem: After integration, some APM actions fail

Solution: Operations Orchestration (OO) must be version 10.51 or higher

Reports and Reporting

PDF: It is not possible to search charts inside reports exported to PDF (since the charts are saved as images). It is possible to search inside tables.

Export: It is not possible to export chart reports to Excel and XML (CSV is supported).

Scheduled reports do not get sent (QCCR1166606)

Description: Favorite reports sent using the report scheduler or via Send Now mechanism do not arrive to recipient email addresses.

Workaround: Ensure that the **SMTP sender name** setting uses email format. **SMTP sender name** is set during installation or in APM from **Admin > Platform > Setup and Maintenance > Infrastructure Settings > Scheduled Reports**.

APM/User Reports - Images referenced in the header/footer (pointing to a URL in the Internet) are lost when exporting the report to PDF (QCCR1189512)

Description: Images referenced in the header/footer are lost when exporting the report(s) to PDF. An "X" is shown instead.

Workaround: Place the image(s) on the APM Gateway Server under:
<APM installation folder>\AppServer\webapps\site.war\images

Access the image in the header/footer as follows:

Application Health

Unable to load more than 200 business applications in Application Health (QCCR11127523)

Description: If you have more than 200 business applications in the Application Health Dashboard, you may experience slow loading of this page. The time will vary according to the specific machine memory and CPU power.

You may also get an 'undefined' error message when waiting for the dashboard to load.

Recommendation: As a solution, we recommend that you:

- Limit the user permissions to view up to 200 applications. For information, see *Application Health Permissions* in the APM User Guide.
 - Create a dashboard filter that will limit the number of applications to 200. For information, see *Viewing the Application Health Dashboard* in the APM User Guide.
-

Service Health

Administration

The Rules API enables you to create new business rules for Service Health and Service Level Management, using the Groovy scripting language. The APM documentation contains basic examples of API rules. For additional examples of rules based on customer requests, see HPE Software Support:

<https://softwaresupport.hpe.com/km/KM778069>

Changing the breakdown configuration does not refresh Service Health components (QCCR1I46143)

Description: In the Breakdown UI, changing the breakdown configuration does not refresh Service Health components.

Workaround: If you have configured a breakdown in a local impact view (for example, transaction by location), and you want to change the breakdown type (for example, to location by transaction), you must perform the following steps:

1. Edit the original breakdown configuration, and select the new breakdown type as **None**.
 2. Save the change, and wait a few minutes for the change to take effect.
 3. Select your view, and edit the breakdown type to the type you want defined.
-

Changes made to triplets not reflected in Service Health calculation (QCCR1I59377F)

Description: If you make changes to the triplets that define impact links within **RTSM CI Type Manager > Calculated Relationships > Triplets**, these changes are not reflected in Service Health calculation.

Workaround: After making these changes, access the JMX console (http://<server_name>:21212/jmx-console). Within the **UCMDB** list of services, select **TQL Services**, and invoke **retrieveTqlNames** using your customer ID. Within the results, search for **marble_dashboard_tql**, and click **Deactivate**. When deactivation is done, click **Activate**. Service Health calculations will now implement your modified impact links.

Hidden rule parameters lose their default values (QCCR1I65242)

Description: If you create a KPI assignment that uses a rule with hidden rule parameters, and the assignment updates an existing KPI with a different rule, the hidden rule parameters lose their default values.

This typically impacts rule calculations. (Note that this does not apply to new KPIs, but only to existing KPIs which had a different rule before they were updated by the assignment.)

Workaround: Before updating the assignment, edit the rule definition in the Rule Repository and make the hidden rule parameters configurable (not hidden). You can then update the rule in the KPI assignment, and synch existing CIs. After you save the assignment, you can return the rule parameters to be hidden. Alternatively, you can delete the existing KPIs before running the KPI assignment; this causes the assignment to create the KPIs rather than update them.

Cannot create local impact pattern view based on the BSMDowntime_impact query (QCCR1I65385)

Description: Within **Service Health Administration > View Builder**, you cannot create a local impact pattern view based on the **BSMDowntime_impact** query.

Workaround: You can create a pattern view based on the **BSMDowntime_impact** query within **RTSM Administration > Modeling Studio**.

Application

The Watch List component in Service Health does not support breakdowns; you cannot add virtual CIs (breakdown CIs) from a local impact view to a watch list.

PNR KPI Persistency: The PNR KPI in Service Health does not have persistency in case of a Data Processing Server failure or a system restart. The PNR KPI shows an initialized status until the SLA is recalculated, at which time the PNR value is updated.

Daylight Savings Time:

- Reports that include the time period during which a Daylight Savings Time (DST) change took place (change to or change from DST) will either be missing one hour (in cases where clocks are moved forward) or have two sets of data for the same hour (in cases where clocks are moved back).
- If a report's time range includes the time of a Daylight Savings Time (DST) change, the data for the period after the DST time change is incorrect. To obtain correct data for the entire time range, print two separate reports, one for the time range before the DST time change and one for the time range after the DST time change.

Moving the Configuration Items dialog box can freeze the UI (QCCR1I42825)

Description: Within the 360° View, if you select the Filter icon on the toolbar, and then click the Configuration Items link, the Configuration Items dialog box opens. If you move this dialog box within the screen, the UI can freeze.

Workaround: Reselect the component to enable it again.

If the management database goes down, the 360° View suffers a fatal error (QCCR1I46512)

Description: If you are working with High Availability and a load balancer, if the management database goes down, the 360° View suffers a fatal error.

Workaround: Log out of APM and then log in again.

Inconsistency displaying breakdown views (QCCR1147502)

Description: If no new samples were received after a breakdown was defined in a view, and samples were received from only some of the locations, the view can show inconsistent worst statuses on the locations.

Workaround: None.

Not possible to reset HI to default (QCCR1148559)

Description: In the Health Indicators component, the menu command "Reset Health Indicator" to reset an HI to its default state does not work for metric-based indicators.

Workaround: None.

Only one filter is saved in session per user and customer (QCCR1152699)

Description: Within the Hierarchy component, only one filter can be used at a time, per user, per customer (regardless of quick filter or advanced). This means that if a user is using a filter in one Hierarchy component, and the user then activates a different filter in another Hierarchy component, the first filter is overridden.

Workaround: None.

Filter change done during Web Server or Application Server restart is not saved (QCCR1162605)

Description: If you are working in a high availability environment with a load balancer, and are editing an existing filter in Service Health when the web server or application server restarts, changes to the filter are not saved.

Workaround: None.

MyBSM

JavaScript errors when navigating from MyBSM (QCCR1147291)

Description: In some versions of Internet Explorer if the browser is configured to show JavaScript errors, when you navigate from MyBSM to a different application in APM, a popup window appears. This window contains the following message: **Errors on this webpage might cause it to work incorrectly.**

This message is not indicative of a problem. Any changes you made in MyBSM are saved, and MyBSM continues to work correctly.

Workaround: To prevent this message from appearing, within Internet Explorer access the **Internet Options > Advanced** tab, and clear the **Display a notification about every script error** check box.

Performance issues when dragging Component Gallery pop-up in MyBSM (QCCR1192585)

Description: Performance issues when dragging Component Gallery pop-up in MyBSM. Sometime focus can be lost and user is forced to regain focus on the pop-up to continue dragging.

Workaround: None.

Service Level Management

The Rules API enables you to create new business rules for Service Health and Service Level Management, using the Groovy scripting language. The APM documentation contains basic examples of API rules. For additional examples of rules based on customer requests, see HPE Software Support:

<https://softwaresupport.hpe.com/km/KM778069>

PNR KPIs: In Service Level Management, you cannot attach more than one PNR KPI (defined in Service Health) to a CI.

CIs in SLAs: You cannot add a CI to an SLA when the CI includes a copy of itself in the original definition in the RTSM. This is because nesting is meaningless in the SLA calculation (Service Level Management cannot calculate a CI using the CI result as a value). If you do so, your operation will fail with a general error. However, you can add the same CI to an SLA more than once if the CI does not include a descendant of itself. In this case, Service Level Management calculates the CI only once, so the objectives are the same no matter where the CI appears in the SLA hierarchy.

Linkage between Business Transaction and SAP Transaction is disabled (QCCR1I47274)

Description: After APM restart, the automatic linkage of Business Transactions to SAP Transactions is disabled.

Workaround: To enable the linkage mechanism, restart the VERTICALS service in the MercuryAS process.

End User Management

Error in Alerts tab in End User Management (EUM) Administration when using Java 7u9 plug-in (QCCR1I79407)

Description: An error may occur when clicking the Alerts tab in EUM Admin if client browser is using Java 7u9 plug-in.

Workaround: Clean Java browser cache and then open the Alerts tab again. To clean the Java cache:

1. Navigate to **Start > Control Panel > Java**.
 2. In the Temporary Internet Files section, click **Settings**.
 3. In the Temporary File Settings dialog box, click **Delete Files**.
-

Business Process Monitor

VuGen Scripts: When you run a script written in VuGen that uses proxy settings from an automatic configuration script (.pac file) configured in the runtime settings of the script, if one of the proxies in the .pac file is unavailable, replaying the script in either VuGen or Business Process Monitor may result in a high response time and, in some instances, the script may fail due to a timeout. The script can be run in Internet Explorer without this problem, as it ignores the unavailable proxy.

Page Component Breakdown URL: When running a page component breakdown (from End User Management or Business Process Monitor), the target URL is limited to 144 characters.

Real User Monitor

Some active filters do not work on upgraded RUM data (QCCR1I62276)

Description: When reports are generated for RUM data that has been upgraded to version 9.x, some of the active filters in the report do not work.

Workaround: None.

RUM reports not available (QCCR1I63076)

Description: RUM reports are not available in APM .

Workaround: If you configure an application for RUM in the APM UI (Application > End User Management) the first time you log in to a new APM system, log out of APM and log in again before accessing RUM reports.

RUM Admin - disable back-end tiers discovery in Generic protocols (QCCR1I64131)

Description: In EUM Administration, automatic tier discovery does not work for the following generic protocols, even if the Enable automatic tier discovery check box is selected:

- TCP Request-Response
- TCP Streaming
- UDP Request-Response
- UDP Streaming

Workaround: None.

Failed to create RUM action when using more than 87 Asian characters in name or 166 in description (QCCR1I89760)

Description: When creating a new RUM action/page in APM and using Asian characters, you are limited to no more than 87 characters for the name and 166 characters for the description.

Workaround: None.

Client Monitor Probe should be able to capture and report 4xx and 5xx error events (QCCR1I111139)

Description: Client Monitor Probe does not report HTTP error events, such as 400 series error (page not found, etc.) and 500 series error (server errors)

Workaround: None.

System Availability Management and SiteScope

SiteScope Release Notes: Refer to the SiteScope release notes for all SiteScope limitations.

SiteScope Documentation: SiteScope documentation is available only as a standalone help system. It is not a part of APM Help.

You can access the SiteScope documentation online at <http://sitescope-help.saas.hpe.com> or access the .pdf files supplied with SiteScope.

SAM Administration Copy and Paste: In System Availability Management Administration, when copying objects from one SiteScope to another, there is no dependency check. This means that you can copy an object that depends on another object to a different SiteScope, even though the object on which it depends does not exist on the target SiteScope.

SAM Administration Page cannot be displayed error: In System Availability Management Administration, when the SiteScope service is down, instead of receiving an error to this effect, you will see a **Page cannot be displayed error**.

SiteScope Reset: If a SiteScope is being reset when APM is not running, the SiteScope will appear as registered with a configurable profile in System Availability Management Administration once APM is running again. The SiteScope must be reset when APM is running.

SAM Administration Recently Used Monitors: On the **New Monitor** page, the **Recently Used Monitors** list is not saved when you exit System Availability Management Administration.

SiteScope Profiles: When creating a SiteScope profile in System Availability Management Administration, if you change the profile display name after having received any error during the profile creation process, the default profile name is not changed accordingly. Ensure that the profile name and SiteScope agent machine location fields contain the desired values.

Monitor Deployment Wizard only supports topology reporting for monitors that have a default topology defined (QCCR1I39697)

Description: The Monitor Deployment Wizard only supports topology reporting for monitors that have a default topology defined. This means you can select to add a template to a CI only if the CI type is the default CI type for all the monitors in the template.

Workaround: None.

After JBoss Application Server recovery, there is no data in SAM Administration "Summary" (QCCR1I44570)

Description: After JBoss Application Server recovers from a server crash, the information in the right pane of the Summary tab in SAM Administration does not show any data until APM is restarted.

Workaround: Restart APM.

408 Request Timeout error in Internet Explorer 7

Description: When accessing SiteScope from System Availability Management Administration using Internet Explorer 7, a 408 Request Timeout error is displayed.

Workaround: Configure the browser to accept cookies from the SiteScope server.

1. In Internet Explorer, select **Tools > Internet Options > Privacy** tab > **Advanced** button.
 2. Select **Override automatic cookie handling**, make sure **First-party cookies** and **Third-party cookies** are set to **Accept**, and select **Always allow session cookies**.
-

Settings when registering SiteScope to a APM server that uses a load balancer (QCCR1156354)

Description: When registering SiteScope to a APM server that uses a load balancer, make sure that the Gateway server name/IP address (in **Admin > System Availability Management > Distributed Settings**) is the Default Virtual Server for Application Users URL (and not the Default Virtual Server for Data Collectors URL). This URL can be found in **Admin > Platform > Setup and Maintenance > Infrastructure Settings > Foundations > Platform Administration > Host Configuration table**.

Workaround: None.

No reconciliation between SiteScope and Discovery and Dependency Mapping (QCCR1156709)

Description: There is no reconciliation between SiteScope and Discovery and Dependency Mapping when there is only a default SQL server instance. SiteScope reports the default value "SQLServer" as the name of the CI, while DDM reports the name of the host.

Workaround: Install an SQL database with a named instance.

Unable to perform some actions in SAM Administration in a load balancing environment (QCCR1158582)

Description: Unable to perform the following actions in SAM Administration in a load balancing environment when SiteScope 10.x or later is integrated with APM:

- Copy/paste from one SiteScope to another.
- Perform a Global Search and Replace.
- Run the Monitor Deployment Wizard.

Workaround: Register (or remove and reregister) SiteScope to the APM server using the Default Virtual Server for Application Users URL instead of the Default Virtual Server for Data Collectors URL (enter the URL in **Admin > System Availability Management > Distributed Settings > Gateway server name/IP address**). This URL can be found in **Admin > Platform > Setup and Maintenance > Infrastructure Settings > Foundations > Platform Administration > Host Configuration table**.

If you cannot remove SiteScope from APM because you do not want to lose data, you can change the host name on SiteScope under APM Integration Preferences (**Preferences > Integration Preferences > Application Performance Management machine name/IP address**).

SISConfigurationEnrichmentUpgrader failure (QCCR1165694)

Description: During APM upgrade, SISConfigurationEnrichmentUpgrader may report FAILED, PARTIALLY FAILED, or NOT REQUIRED status, or the APM content packs may not automatically upload.

Workaround: Delete the **blockAutoUpload** file located in the **<APM root directory>\conf\opr\content** folder.

Run-time Service Model (RTSM)

Installation and Upgrade

You can manually update the MySQL version on the installed Data Flow Probe. This is an optional procedure for customers who prefer to use the latest MySQL version, and is not mandatory for an operational probe.

To update the MySQL version on the Data Flow Probe:

1. Log into the machine where the Data Flow Probe is running.
2. Stop the Data Flow Probe (either using a console or the **UCMDB Probe** service).
3. Stop the MySQL service by opening the **Services** console and locating the **UCMDB_Probe_DB** service.
4. Locate the MySQL installation (for example, C:\hp\UCMDB\DataFlowProbe\MySQL).
5. Rename the MySQL directory to a different name. This step is for backup purposes only.
6. Copy the **MySQL.zip** file containing the new version to the Data Flow Probe machine and extract it under the DataFlowProbe directory so that a new MySQL directory is created under it (for example C:\HP\UCMDB\DataFlowProbe\MySQL directory).
7. Edit the **MySQL\my.ini** configuration file to contain the correct paths.

For example, if DataFlowProbe is installed under C:\HP\UCMDB\DataFlowProbe directory, update **my.ini** to contain the following lines:

```
# The MySQL server
[mysqld]
basedir = "C:/hp/UCMDB/DataFlowProbe//MySQL/"
datadir = "C:/hp/UCMDB/DataFlowProbe//MySQL/data/"
tmpdir = "C:/hp/UCMDB/DataFlowProbe//MySQL/temp/"
```

8. Start the MySQL service.
9. Run the **clearProbeData.bat** script (for example C:\HP\UCMDB\DataFlowProbe\tools\clearProbeData.bat).
10. Start the Data Flow Probe.

All UCMDB help pages throw an error when you try to access them from the APM application. You can access the UCMDB help pages using the following link:

<http://cmshelpcenter.saas.hp.com/CMS/Content/Index.htm>

Unsupported UCMDB version error messages appear in the log file (HTML Document) located in **<HPE APM root directory>\odb\runtime\log\package_reports\customer_1\deployReports** relating to the **CMKpiAdapter.zip** and **CMPolicyAdapter.zip** packages. You can ignore these error messages since the packages, which are part of the Content Pack (CP), are not required for APM functionality.

After upgrading a client machine to Java 7 updates 2 or 3, text fields in dialog boxes are not in focus and the user should manually click on the fields to bring them into focus. This limitation can occur when using the Internet Explorer and Firefox browsers; it does not occur when using the Google Chrome browser.

When the Data Flow Probe is configured to be installed in separate mode, so that Manager and Gateway processes are running on separate machines, the following additional configuration is required on the Discovery Flow Probe Manager's machine:

1. The Probe Manager must have the exact same Probe ID (`appilog.collectors.probe.name`) as specified during the installation of the Probe Gateway.
2. Stop the Manager process (if it is already running).
3. Open **<UCMDB installation>\DataFlowProbe\conf\DiscoveryProbe.properties** and locate the following code:

```
# The Domain name  
appilog.collectors.domain = ${DefaultDomain}
```

4. Change this code to contain the Data Flow Probe's actual domain. For the default domain, `DefaultDomain`, this code should look as follows:

```
# The Domain name  
appilog.collectors.domain = DefaultDomain
```

5. Save `DiscoveryProbe.properties` and start the Manager process.
-

After upgrading to the latest APM patch, if a job's time zone setting was other than "Discovery probe time zone", it must be reconfigured to the correct time zone.

When upgrading from BSM versions 9.26 or earlier, if you enabled Update/View permissions in the Data Flow Management modules, but did not enable the Execute permission, you must manually re-enable those modules by selecting the Execute/Update permission for the relevant users. For the Adapter Management, the permission should be set to **Update**.

If integrations are configured under RTSM Integration Studio (for example, topology synchronization integrations between central UCMDB and RTSM), after upgrading, the Data Flow Probe will run population jobs immediately for active integration points, even if the integration is not scheduled. If you do not want the integration to run, disable the integration before running the upgrade from any BSM 9.x version.

Application and Modeling

Hidden queries are no longer displayed in Package Manager by default. To display hidden queries in Package Manager, go to User Preferences and change the value of the Show hidden queries in the Modeling Studio user preference to true.

If a TQL query containing a federated history query node fails to calculate when using the Changed during x hours operator, redeploy the `CmdbHistoryAdapter` located in the **..\<Data Processing Server root directory>\odb\content\adapters** directory.

The APM server may not start up properly when the setting **Max CIs in view supported to rediscover** in the Infrastructure Settings Manager is set to very high values.

When creating a cron expression in the Job Definition Scheduler, the time and date must be in the future. If the current date or a past date is defined, it will cause an error.

When Delete permission is assigned for a CIT, all of its sub-classes can also be deleted.

When Create permission is assigned for a CIT, it can be updated and all of its sub-classes can also be created.

In Enrichment Manager, Impact Analysis Manager, and CIT Manager, when you select several CITs and their connecting relationships and select **Export Map to Image** with the **Selected Object Only** option, the resulting image does not display the relationship names.

It is possible to edit CITs even if they are assigned the READ_ONLY_CLASS qualifier.

The Screen Capture tool cannot capture a screen shot when the UCMDB/RTSM browser is running in a multi-display environment.

The **Clear Filter** button in the Job List dialog box (for scheduled reports and scheduled snapshots) does not work properly.

When creating a new Impact rule in the Impact Analysis Manager, the created Impact rule can be run within the IT Universe Manager even if the **UCMDB** check box on the Impact Rule Groups page of the wizard is not selected.

In IT Universe, if you right-click a Virtual Compound Link from the Get Related pane, the Show Compound Path option is disabled.

The following API has been added to the CI Selector to get the selected CIs' display labels and class names using Javascript:

- String getSelectedCmdbObjectDisplayNames()
 - String getSelectedCmdbObjectClassNames()
-

The new **retrieveAllActiveUsers()** method is now available in the **UCMDB-UI:name=UCMDB Integration** section of the JMX console. This is equivalent to the **getAllActiveUsers()** method that was available in UCMDB version 8.0x.

In the UCMDB_JavaAPI, in cases where an attribute type was of type **string** or **integer** list, the **Attribute#getDefaultValue()** method, which had returned strings in XML format, now returns a collection of string or integer objects.

There have been some performance improvements in the Generic Database Adapter.

In the **Views** tab in the Security Manager, when Delete permission is set and a view is deleted, the query on which the view depends is also deleted.

When working in multi-customer environment (such as SaaS), you must work with a single database and schema.

In the Modeling Studio, it is not possible to create more than one pattern-based model of the same CI type, based on the same query. When you try to create a new one, it overwrites the existing one.

Deprecated CI types do not appear in strike through font if the font size is less than 14 points.

In the Routing tab in the Layout Properties dialog box, (accessed by selecting **Layout > Layout Properties**), all the options seem to be available, but only some of them are actually used in the layout of the map.

In the Impact Analysis Manager, if an XML file is imported with the same file name as an existing Impact Rule, a confirmation message saying that an Impact Rule of that name already exists is not displayed before replacing the existing Impact rule.

When exporting CI instances found for a selected TQL, you can now manually enter up to 150,000 CIs per page.

If you have **Delete** permissions for views and you delete a view, the TQL query on which the view depends is also deleted.

In the Modeling Studio, no informative error message is displayed when you import an invalid XML file for views or queries.

In Modeling Studio, you cannot change the query type of an Enrichment or Impact Analysis query in the Query Definition Properties dialog box if there are resources that are defined on top of this query.

In the Impact Analysis manager, when you try to save an Impact rule for which you defined a sub-graph, a generic error message appears without giving detailed information regarding the problem.

Printing semi-transparent graphics using the **Run Screen Capture Tool** produces poor quality results.

In the Hierarchical tab in the Layout Properties dialog box, (accessed by selecting **Layout > Layout Properties**), the **Minimum Backward Edges** and **Optimize For Feedback Flow** options do not work properly.

The new viewing system currently does not support displaying view results via the IT Universe Manager that were based on a rule-based template.

When displaying CIT instances with the network port number property, the network port number is displayed with a comma. This comma is irrelevant but is displayed because of the manner in which Java reads the value from the system.

When you search for a string in the Modeling Studio or the Reports module, the Highlight button highlights only the first occurrence of the string that is found.

When a calculated relationship is selected in Enrichment Manager or Impact Analysis Manager, the Qualifier tab in the Relationship Properties dialog box is not functional (the qualifiers selected are not applied to the selected relationship).

When creating a view based on a new TQL query in Modeling Studio, if you add a condition to one of the query nodes and save the view, and then modify the view topology without closing the window, an error is generated. To avoid the error, close the window after adding the condition and saving the view, and then open the view again and make the topology changes.

The Show Element Instances dialog box does not display the External icon for federated CIs.

The Hierarchy Pane of the Pattern View Editor in Modeling Studio does not display the External icon for federated CITs in the TQL query.

When editing an out-of-the-box attribute of type byte, an error is generated. For example, when editing the AttachmentContent attribute of an Attachment CI, an error occurs. User-created attributes can be edited safely.

You can set the starting date and time and repeat interval for pattern-based model updates using the Pattern Based Model Scheduler dialog box in the Modeling Studio. Select Daily Pattern Based Model Scheduler Updates to set the repeat interval in hours. Select Advanced Pattern Based Model Scheduler Updates to set the repeat interval using a cron expression.

A fatal error occurs when clicking the Run Screen Capture Tool icon under RTSM administration (QCCR11123769)

Confidential Manager

If you change the default domain name in RTSM, you must first verify that the Data Flow Probe is not running. After the default domain name is applied, you must execute the **DataFlowProbe\tools\clearProbeData.bat** script on the Data Flow Probe side, and then restart the Data Flow Probe.

Note: Execution of the **clearProbeData.bat** script will cause a discovery cycle on the Probe side once the Probe is up.

Discovery

When setting up the Data Flow Probe, if you import illegal ranges from a CSV file (for example, the start IP is higher than the end IP), no error is displayed, and the range is saved. You must fix the invalid range manually.

SQL Protocol: The Encryption Method field enables you to choose SSL support for Oracle connections.

SNMP Protocol: The **Privacy Algorithm** now supports both DES and AES algorithms.

If you want to connect a new Data Flow Probe to RTSM with an identifier of a Data Flow Probe that is already defined on a different domain, you must remove the existing Probe from RTSM (from the Data Flow Probe Setup module), prior to installing the new Probe.

To prevent an overload on the Data Flow Probe machine, you can limit the number of remote processes that run simultaneously. Locate the **appilog.agent.local.services.maxRemoteProcesses** parameter in the **DiscoveryProbe.properties** file. The default value is unlimited (-1). Change the value to the maximum number of processes that can be run simultaneously. If you change this value, you must restart the Probe. (This overload can occur when activating certain out-of-the-box jobs that launch a Java process for each destination, for example, J2EE or SAP jobs.)

Downloaded **jar** file resources can cause the Probe to restart before all the other resources of an adapter package have downloaded. To prevent this occurring, the reset time is, by default, **40** minutes. You can change this time:

Access the **appilog.agent.probe.restartProbeAfterJarDownload.interval** parameter in the **DiscoveryProbe.properties** file. The delay until a restart on the first resource download (that is, for a first start or after clearing the Probe data) is 10 milliseconds.

In the Dependency Map, when selecting to show all instances of a selected CI, the instances are not displayed.

When you try to filter triggered CIs by probe in the Discovery Control Panel - Status pane, the triggered CIs are not filtered.

Discovery job error and warning messages are displayed in the language of your client's operating system, independent of browser language settings.

Integration

It is now possible to disable the reporting of null values in the GDBA adapter by adding in the adapter's **adapter.conf** file the following setting: **report.null.values=false**.

Integration job for syncing (population syncing) between RTSM and CMS is limited to 500,000 CIs and relationships (QCCR1I79192)

Description: The integration job that is defined to sync (population sync) between the RTSM and CMS (or another instance of RTSM) and vice versa, is limited to 500,000 CIs and relationships. This is a limitation of live TQL queries. This limitation applies to all sync jobs that pull data simultaneously from the same CMS/RTSM – they are restricted to a total of 500,000 CIs and relationships.

When syncing data from UCMDb/CMS 10.01 CUP 5 and up to RTSM, it is recommended to use the push sync adapter on the CMS side instead of population. This sync method is limited to 5 million CIs and relationships per sync job.

If you are using data synchronization between APM and the central CMDB or OMI's RTSM with aging enabled in the adapter, if you disable the sync for a time period which exceeds the aging interval, CIs may be deleted by the aging mechanism. As a result, related data and configurations in APM may be lost as well.

Workaround: If you plan to stop data synchronization between APM and the central CMDB for a time period which exceeds the aging interval, it is recommended to disable the aging in the adapter. If the aging has been enabled and is changed to be disabled, it is recommended to run full data synchronization before stopping the data synchronization between APM and the central CMDB. (QCCR1H65590)

When running a history-based push job (for changes), you can incorrectly select any integration TQL query, even those that are federated or contain virtual links.

If you start a population job (for the first time) on a TQL query that is currently being edited, saving the query may remove its "Active" status and cause the job to fail. If this occurs, running a full population job again will fix the problem.

A population job that uses the UCMDDB 9.x adapter to retrieve federated data can retrieve only added or updated CIs, but cannot remove deleted CIs from the CMDB.

The EMC Control Center (ECC) database does not contain WWN (World Wide Name) information for FCHBAs (Fiber Channel Host Bus Adapters) attached to Storage Arrays. Therefore, this discovery populates the WWN attribute of FCHBA CIs with the ECC ID (internal to ECC) of the HBA. The script also populates the **data_note** attribute of each such FCHBA CI with a note that ECC does not have WWN info and duplication of this CI is possible.

Discovery and Integration Content

For details on the Discovery and Integration Content Pack versions compatible with this version of APM, see the APM System Requirements and Support Matrixes Guide associated with the version of APM you are installing.

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.

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.

Content Pack Documentation Updates

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

- http://SERVER_NAME:PORT/ucmdb-ui/docs/DDMContent.jsp – Discovery and Integration Content Guide
- http://SERVER_NAME:PORT/ucmdb-ui/docs/permissions.jsp – the Permissions document
- http://SERVER_NAME:PORT/ucmdb-ui/docs/readme.jsp – the Release Notes (this file)
- http://SERVER_NAME:PORT/ucmdb-ui/docs/whatsnew.jsp – What's New in this release

RTSM Multilingual Support

Multi-Byte characters do not appear in titles and sub-titles in reports when exporting or previewing as PDF.

For reasons of compatibility, Integration Point names and Data Flow Management job names can include only English letters, numbers, and the underscore character (_).

Because the maximum string length for many UCMDB parameters is defined and documented in bytes, the real acceptable value length is shorter when multi-byte or language-specific characters are used.

In Enrichment Manager, required attributes in the **Node Definition** dialog box are not marked in bold for the Japanese, Chinese, and Korean versions.

Non-English characters should not be used in paths to different properties or adapter files.

Multi-byte characters should not be used in user passwords.

The action names in scheduled jobs are stored with localized names (according to the locale being used), but those names are displayed with no dependence on locale. Those action names may be user-modified and therefore will be user-specific.

Excel can now open UTF-8 encoded CSV documents correctly.

HP Universal CMDB/RTSM does not fully support surrogate pairs and combining characters.

Diagnostics

When call/min values are very small, the graph is not displayed since the graph resolution is too low. (QCCR11127077)

Description: The graph should support a higher resolution so it can reflect very small values as well.

Workaround: None.

Transaction's call/min may have different values in transactions list (left pane) and transaction summary (right pane) (QCCR11126272)

Description: Transaction summary is refreshed when you select a transaction from the list while the list is refreshed when you click the **Refresh** button. The values are refreshed in different points in time and therefore can be different.

Workaround: Click the **Refresh** button to align the values.

Documentation

The note about accessing the JMX console from the localhost in the *JMX Console* chapter of the [APM Platform Administration Guide](#) and the instructions in *How to Enable Accessing JMX Console Remotely* in this chapter only applies to JMX ports other than 8080 (for example, 21212). To secure access to the JMX console through port 8080, see the instructions in *Opening JBoss HTTP Port 8080* in the *Hardening Workflow* chapter in the [APM Hardening Guide](#).

The section on **Integrating Multiple CMDBs** in the **RTSM Data Flow Management Guide** does not contain support information for recent APM releases. For the complete APM-CMS support matrix, refer to the **APM System Requirements and Support Matrixes** pdf.

In the APM Help, the previous and next buttons do not function for the Run-time Service Model (RTSM) topics.

Multilingual Support

The left menus and other UI elements in Application Health are not translated to the language of non-default locales (QCCR11127010)

Description: In any browser, when the locale is set to a non-default locale, the left menus and other UI elements in Application Health are not translated to the language of that locale.

Workaround: In your browser, change the selected language to be the main language of the selected locale. For example, for German just select **German [de]** and not the one with additions such as German (Germany) [de-DE].

For example, in Internet Explorer:

1. Click the **Tools** button at the top-right of your browser window.
2. Click **Internet Options**.
3. In the General tab, under the Appearance heading, click **Languages**.
4. Select the two letter language code of the locale and move it to the top of the language list.
5. Click **OK**.

Note: This procedure is similar in all browsers.

Items in component gallery are not translated; Service Health top pane tabs (Page Names) are not localized (QCCR1169138, QCCR1145575)

Unreadable characters in command line interface help (QCCR1A139904)

Description: There is a general problem with printing localized unicode text on the Windows command line. Due to limitations in the default console font and the wrong code page being in place, certain characters do not display correctly.

A detailed description of this problem can be found at :

http://illegalargumentexception.blogspot.com/2009/04/i18n-unicode-at-windows-command-prompt.html#charsets_1252

Workaround: In the console window on Windows perform the following actions:

1. Open the properties of the command window (right-click on the frame and select **Properties**. Switch to the **Font** tab and change the font to **Lucida Console**.
2. Click the **OK** button to close the properties dialog box. The new font setting is used for all future command prompts.
3. In a command window, enter the following command:
`chcp 1252`

All command line tools should now display with the correct localized text.

Application > Service Health top pane tabs (Page Names) are not localized (QCCR1I45575)

The RTSM Class Model does not support multi-byte character sets. All class model items, including CI type, relationship, and attribute names, descriptions, and display labels, cannot contain multi-byte characters. (QCCR1I62755)

SiteScope

Run results for some monitors are shown according to the server locale or in English, instead of the client locale (QCCR1I30190)

Localized Service names are not readable while trying to add a Service monitor on WMI remote host. Workaround – use NetBios. (QCCR1I30808)

When using the Microsoft Windows Resources monitor in a non-English locale, the monitor counters and run status summary are not readable. Workaround: Configure the monitor to use the Direct registry queries collection method. (QCCR1I54985)

Fixed Issues

This section lists fixed problems and limitations for APM 9.40 that have been made visible to customers for tracking in the [HPE Software Support](https://softwaresupport.hpe.com) web site (<https://softwaresupport.hpe.com>).

For a complete list of the problems and limitations fixed in this release that have been made visible to customers for tracking:

1. Navigate to the [Self-Solve Knowledge Search](#) page, on the [HPE Software Support](#) web site (<https://softwaresupport.hpe.com>).
 2. Select the relevant product, version , and operating system (for example, **Application Performance Management (BAC > 9.40 > Windows)**).
 3. Under Document Type, select **known problems**.
 4. Click the issue that you want to view (or download). A page containing information about the issue displays.
-

Unable to create Enrichment rule based on new query (QCCR11119184)

Symptom:

Unable to save an Enrichment rule when it is based on a new query .

Resolution:

You are now able to save an Enrichment rule when it is based on a new query .

APM does not start with manually created schemas on Oracle (QCCR11119376)

Symptom:

APM does not start with shemas that were manually created in Oracle.

Resolution:

APM now starts with shemas that were manually created in Oracle.

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Feedback on Release Notes (Application Performance Management 9.40)

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 docteam@hpe.com.

We appreciate your feedback!