

HP Business Service Management

For the Windows and Linux operating systems

Software Version: 9.23

Release Notes

Document Release Date: December 2013

Software Release Date: December 2013



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Acknowledgements

This product includes software developed by the Apache Software Foundation (www.apache.org).

This product includes software developed by the JDOM Project (www.jdom.org).

This product includes software developed by the MX4J project (mx4j.sourceforge.net).

Documentation Updates

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

- Software Version number, which indicates the software version.
- Document Release Date, which changes each time the document is updated.
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Business Service Management Release Notes

This document provides information about Business Service Management (BSM) 9.23.

What's New in This Release

BSM 9.23 includes new functionality, customer escalation fixes, and internal bug fixes. To view a full list of new features and enhancements in BSM 9.23, select **Help > What's New** in BSM, or download the [What's New document](#) from the [HP Software Product Manuals](#) web site.

BSM Support Matrixes

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

Information about supported integrations between BSM and other HP or third-party software is now available on the [HP Software Solutions and Integrations portal](#) (requires HP Passport login). Every integration listed includes a description of the integration, support matrix, and links to integration configuration documentation.

Installation Instructions

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

- New customers should follow the instructions in the [BSM 9.23 Installation Guide](#).
- Existing customers installing BSM 9.23 on top of an earlier BSM 9.2x version should follow the instructions in the [BSM 9.23 Patch Installation Guide](#).
- Existing customers upgrading from 8.x, 9.0x, or 9.1x should follow the instructions in the relevant BSM 9.23 Upgrade Guide:
 - [BSM Upgrade Guide - 8.0x to 9.2x](#)
 - [BSM Upgrade Guide - 9.0x to 9.2x](#)
 - [BSM Upgrade Guide - 9.1x to 9.2x](#)

The most updated versions of these documents are available from the [HP Software Product Manuals](#) web site.

The following planning and deployment resources are also available from the [HP Software Product Manuals](#) web site:

BSM 9.23 Planning Guides Package, which contains:

- Getting Started Guide
- Operations Manager *i* Concepts Guide
- Deployment and Capacity Planner (Capacity Calculator)
- System Requirements and Support Matrixes Guide
- Database Guide
- What's New document

BSM 9.23 Deployment Guides Package, which contains:

- Release Notes
- Database Guide
- Installation Guide
- 9.23 Patch Installation Guide
- Upgrade Guide - 8.0x to 9.2x; Upgrade Guide - 9.0x to 9.2x; Upgrade Guide - 9.1x to 9.2x

- [Smart Card Authentication Configuration Guide](#)
- [Hardening Guide](#)

Updated Components

The following updated components have been released in parallel to BSM 9.23 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 [BSM What's New document](#) also lists key new features for updated components.

Components must be downloaded separately from either the Software Updates page (major/minor releases, e.g., 9.00 or 9.20) or from the Software Patches page (patch releases, e.g., 9.13, 9.23). Both pages can be accessed from the [Downloads page](#) on the [HP Software Support](#) web site (<http://www.hp.com/go/hpsoftwaresupport>).

- **Real User Monitor 9.23**

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

- **Business Process Monitor 9.23**

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

- **SiteScope 11.23**

For installation instructions, see the SiteScope Deployment Guide, available with SiteScope or from the [HP Software Product Manuals](#) web site.

- **BSM Connector 9.23**

For installation instructions, see the BSM Connector Installation and Upgrade Guide, available with BSM Connector or from the [HP Software Product Manuals](#) web site.

- **Data Flow Probe 9.05 CUP 130**

For installation instructions, see the [Data Flow Probe Installation Guide](#), also available from the [HP Software Product Manuals](#) web site.

Note: BSM 9.23 will only work with the version of the Data Flow Probe associated with the 9.23 release. Make sure to download and install the correct Probe from the Software Patches page. The Data Flow Probe 9.05 CUP 130 setup file is titled **HPBSM923_DataFlowProbe_9.05CUP130.exe**.

- **System Health for BSM 9.23**

For installation instructions, see the System Health User Guide, available with System Health or from the [HP Software Product Manuals](#) web site.

- **TransactionVision 9.23**

For installation instructions, see the [TransactionVision Deployment Guide](#), also available from the [HP Software Product Manuals](#) web site.

- **Diagnostics 9.23**

For installation instructions, see the following guides, available with Diagnostics or from the [HP Software Product Manuals](#) web site:

[Diagnostics Server Installation and Administration Guide](#)

[Diagnostics Collector Guide](#)

[Diagnostics Java Agent Guide](#)

[Diagnostics .NET Agent Guide](#)

[Diagnostics Python Guide](#)

- **Business Process Insight Server 9.23**

For installation instructions, see the [Business Process Insight Server Administration Guide](#), also available from the [HP Software Product Manuals](#) web site.

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 [HP Software Support](http://www.hp.com/go/hpssoftwaresupport) web site (<http://www.hp.com/go/hpssoftwaresupport>), or when communicating with your HP 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 [HP Software Support](http://www.hp.com/go/hpssoftwaresupport) web site click the **Self-solve** tab, select **Include related areas**, select product, version, and operating system, select only **Known Problems** in the **Document types** area, and click **Search**. You can also search for a specific CR using the keyword box at the top of the Self-solve page.

General and Deployment

Java Runtime Environment Support on Clients Viewing BSM: From BSM 9.23, only Java Runtime Environment (JRE) 7 update 45 is supported for viewing BSM (later updates may be supported but may require a BSM patch). JRE 6 and earlier JRE 7 updates are no longer supported.

Deployment and Capacity Planner (Capacity Calculator): The [Deployment and Capacity Planner](#) (also known as the Capacity Calculator) is located on the [HP Software Product Manuals site](#).

You use this Excel sheet to input information regarding the scope of your deployment (applications, number of users, expected data) and the capacity calculator then calculates the required hardware and determines the size of your deployment. You then use this information to determine your hardware requirements and deployment configuration. You can upload the data from the capacity calculator Excel sheet while running the Setup and Database Configuration Utility in the Server Deployment page.

Authentication: BSM's default authentication strategy is Lightweight Single Sign-On (LW-SSO). When LW-SSO is enabled, you must use a fully qualified domain name (FQDN) to access BSM. This will enable integration among supported HP applications with a Single Sign-On manager, as well as working with BSM RTSM. If you are not able to provide an FQDN, it is still possible to use IP addresses for LW-SSO-trusted hosts. For details on working with IP addresses, see "Authentication Strategies" in the Platform Administration guide.

Temporary Internet Files: When logging into BSM for the first time after upgrading, delete the browser's temporary Internet files. This should be done on each browser that accesses BSM.

Skype Add-ons: An Internet Explorer exception error message is thrown inside BSM pages (usually on login page or in MyBSM), indicating Operation aborted. To resolve this issue, remove the Skype add-ons from your client. For further details, see <http://support.microsoft.com/default.aspx/kb/927917>.

BSM Connector limitations: See the BSM Connector release notes, available with the BSM Connector release and from the [HP Software Product Manuals site](#).

Upgrade: Graph family and instance included in content packs are not upgraded (QCCR1A138542)

Description: After staged upgrade with operating system change (for example, Windows source system being upgraded to a staged Linux target system), graph families and instances are not visible in the Performance Graph Mappings and in the Content Manager UIs.

Workaround: Open the Performance Graph Mappings UI again. The graph families and instances will be visible.

BSM installer does not allow the user to specify the LCore data directory (QCCR1A140980)

Description: The BSM installer provides the option to specify the installation directories at install time, but does not allow the customer to specify the LCore data directory on Windows installations.

Workaround: Install the XPL package first. During that installation, you will be queried for the LCore install directory as well as the data directory. After installing XPL, you can then run the BSM installer.

Upgrade Wizard cannot be restarted (QCCR1A151635)

Description: If you stop the execution of the Upgrade Wizard directly after `OprUcldbUploadUpgrader` has finished but before `OprCheckContentPackUpload` has started, subsequent execution of the Upgrade Wizard hangs at the same point.

Workaround: On the Data Processing Server system:

1. Enter the following command:

```
\hpbsm\bin\ContentAutoUpload -a
```

2. Click **Perform Upgraders**.

The Upgrade Wizard should proceed as expected.

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

Description: If BSM is configured for secure access (using Apache + SSL), BSM 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 `<HP BSM 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.

Applets fail with an unexpected handshake message (QCCR1I44883)

Description: In environments in which the BSM server requires a client certificate, applets using Java 1.6.0_20 may fail with an unexpected handshake message. This is a known issue from Sun (Oracle).

Workaround: Add the parameter `-Dsun.security.ssl.allowUnsafeRenegotiation=true` to the Java client.

Multiple prompts to enter credentials (QCCR1145194)

Description: When using Java version 1.6.19 and higher in a secure environment (SSL) using basic authentication, you are prompted to enter credentials for each applet every time the applet is loaded. This is a known issue by Sun (Oracle).

Workaround: As suggested by Sun (Oracle): When each applet loads the first time, select **Remember password**. There is no security concern with this workaround since the applets are also protected by the browser and you are prompted for your credentials once every time you log into BSM through the browser using basic authentication.

High Availability Controller cannot move services (QCCR1146345)

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 BSM 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 BSM.

Workaround: Restart BSM 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, BSM may not be able to be accessed.

Workaround: Create a duplicate path on the C:\ drive by copying `E:\<HP BSM root directory>\conf\settings` to `C:\<HP BSM 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 BSM Gateway Server before running the configuration upgrade in the target environment. To do so:

1. Log into the JMX console (<http://<Gateway Server name>:8080/jmx-console>) 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 BSM is up and running from within BSM (**Admin > Users and Permissions > Authentication Management wizard**).

View Size (QCCR1I61961)

Description: To enhance performance, in BSM 9.10 there is a view-size limit. As a result, if you created an extremely large view in BAC 8.x, the view may not be supported by the RTSM in 9.10 or later.

Workaround: Contact HP Support for assistance in creating new views to suit your needs.

Automatic BSM content pack upload may fail after upgrade if SISConfigurationEnrichmentUpgrader fails (QCCR1I65695)

Description: During BSM upgrade, if the **SISConfigurationEnrichmentUpgrader** reports FAILED, PARTIALLY FAILED, or NOT REQUIRED status, the BSM content packs may not automatically upload upon restart.

Workaround: Delete the blockAutoUpload file located in the **<HPBSM root directory>\conf\opr\content** folder after **SISConfigurationEnrichmentUpgrader** finished and before BSM restart.

Upgrading from BSM 9.01 to BSM 9.13 and then to BSM 9.21 causes favorite filters that include the Transaction Breakdown component to display an error (QCCR1I79087)

Description: After upgrading from BSM version 9.01 to version 9.13, and then to version 9.21, favorite filters that include the Transaction Breakdown component display an error.

Workaround: After the upgrade, recreate the favorite filter.

Upgrading from BSM 9.01 to BSM 9.13 IP3 and then to BSM 9.21 causes the Performance Over Time component in custom reports to display an error (QCCR1I79262)

Description: Upgrading from BSM 9.01 to BSM 9.13 IP3 and then to BSM 9.21 causes the Performance Over Time component in custom reports to display an error.

Workaround: After the upgrade, redefine the specific custom report.

During patch installation, warning message about Response File displays when BSM installed in non-default directory (QCCR1I85795)

Description: If you are installing the 9.22 minor-minor patch on top of a Windows installation of BSM in a custom directory (not C:\HPBSM), you may receive the message "Finalize action for HP Business Service Management 9.22 (Generate Response File) was not successful".

Workaround: You can ignore this message by clicking **OK** and continue with the installation. The only impact is that a template response file, to be used for silent installation only, will not be created as part of the installation.

Platform

Authentication: When HP Business Service Management is installed with an Oracle Database and User Synchronization enabled with an LDAP Active Directory server, ensure that you login to HP Business Service 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 HP Business Service Management, he is automatically created as HP Business Service Management user **testuser**, who can be assigned permissions in the HP Business Service Management User Management interface. If you then login to HP Business Service 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 HP Business Service 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 BSM 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 (QCCR1I59140)

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 BSM (QCCR1I60724)

Description: When connecting to BSM using an FQDN, you still see the following error in the login screen: The HP Business Service Management URL must include the Fully Qualified Domain Name (FQDN).

Workaround: Retype the HP Business Service Management URL in the address bar, and check if there is a DNS resolution for Load Balanced virtual IPs from the BSM gateways.

MIB validation program returns multiple issues (QCCR1I78961)

Description: MIB validation program returns multiple issues.

Workaround: None.

Personalization for Downtime Management (QCCR1I91787)

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). However, users should not be able to disable or modify downtimes that they did not create.

Workaround: None.

Graphing

Virtualization_Infrastructure view in Performance Perspective: Performance graph does not display for VM hosted on ESX machine (QCCR1A114189)

Description: For the Virtualization_Infrastructure view in the Performance Perspective, performance graphs are not drawn for virtual machines hosted on an ESX server.

Workaround: In the View Explorer, select the vMA node first and then select the VM that you are interested in. The performance graphs are drawn as expected.

When launching performance graphs (CI) from a VMware event, the graphs show metrics for VMs with similar names (QCCR1A118759)

Description: When a user launches a graph for a Virtual Machine CI, graphs are drawn for all the virtual machine CIs that have similar names.

Workaround: Close the graphs for unwanted virtual machine CIs.

Launching of Performance Graphs (neighborhood) option for virtualization configuration items (CIs) takes a long time to respond (QCCR1A123200)

Description: Launching of Performance Graphs (neighborhood) for virtualization configuration items (CI) takes longer if there are no agents running on the neighborhood nodes. This delay happens because the performance graphs try to connect to each of the nodes with a default time-out of 60 seconds per node.

Workaround: Use either of the following workarounds:

- Use the Launch Performance Graphs (CI) option from the Event Browser for viewing the virtualization related CIs.
- You can also change the default time-out required by Graphing to connect to the nodes.

To change the default time-out to connect to the nodes follow these steps:

- a. Launch a web browser and then enter the following URL:

```
http://<Gateway or Data Processing server name>:8080/jmx-console/
```

The Gateway or Data Processing server name is the name of the machine on which HP Business Service Management is running.

- b. To login into JMX Console, you are required to enter the authentication credentials configured when installing BSM and running the Setup and Database Configuration utility.
 - c. Click **service=Infrastructure Settings Manager** under **Foundations** to open the JMX MBEAN View page. In the `void setGlobalSettingValue()`, enter the values `opr`, `opr.graphing.responsetimeouthttp` and `<new timeout value>` (in seconds) in the **ParamValue** field for the parameters listed.
-

EUM - event launch shows all instances with same name (QCCR1A120394)

Description: When a user launches graphs for an EUM CI in one Business Transaction Flow (BTF) from the Event Perspective, graphs are displayed for all the CIs having similar names in other BTFs as well.

Workaround: After the graphs are drawn, expand the left pane in the graph window and select only the CI for which you want to view the graphs. Graphs for selected CI are then drawn.

Trying to save a custom graph gives an error message (QCCR1A126044)

Description: When you try to save a custom graph, the system shows a message stating that an error occurred while saving the graph. This is due to failure of the graph association.

Workaround: A user with Administrator privileges must manually associate the saved graph.

Line series in the graph for different intervals do not appear even though the points are plotted (QCCR1A131613)

Description: For different data sources, the line series in the graph for different intervals do not appear at times, though the points are plotted. This is because the series is in different time intervals.

Workaround: For metrics for data sources, draw separate graphs.

Pre-defined graphs for HP Operations Smart Plug-ins (SPI) are not appearing in Performance Perspective (QCCR1A139847)

Description: If you are using HP Performance Agent (PA) to monitor your SPI, the pre-defined graphs do not appear. This is because PA does not support multi-instance data logging. But if you are using CODA, you can draw the pre-defined graphs.

Workaround: None.

Predefined graphs are not listed when NIC is selected.(QCCR1A143377)

Description: When you select the MAC address of an NIC as a CI from the View Explorer, the corresponding predefined graphs are not listed. This is because while creating the Performance Graph Mappings, the NIC name is mapped to the predefined graphs and not the MAC address.

Workaround: Select the corresponding host to view the predefined graphs.

Graph for vSphere Management Assistant (vMA) is drawn when guest system is selected (QCCR1A143487)

Description: When a System Performance Graph (for example: Global History) is selected, a graph for a vMA node is drawn instead of the guest system. This is because, when an agent is installed on a vMA and both the vMA and an agent are monitoring a CI, Performance Graphing draws the graph for the first data source returned. If the first data source returned is that of vMA, the graph for vMA is drawn. Instead of drawing the graph for the monitored CI, the system draws the graph for the vMA node.

Workaround: Select the agent data source from the Data Sources box in the Metrics tab and draw the graphs.

In the Metric Selection Window of the Design Wizard, the system displays only the last selected data source in the Data Sources list (QCCR1A143696)

Description: In the Metric Selection Window of the Design Wizard, the system displays only the last selected data source in the Data Sources list.

Workaround: None.

Display names of Graph families in Content Manager are not localized (QCCR1A169348)

Description: The display names of graph families are not localized for German, Russian, and Spanish in the Content Manager. The labels are displayed in English.

Workaround: None.

Integrations

NNMi Integration: Configuring topology integration between NNMi and BSM requires the configuration of credentials to enable NNMi and RTSM to communicate. For details on configuring these credentials, see the NNMi integration document. For additional information on BSM-NNMi integration, see the HP NNMi - HP BSM Topology Integration Best Practices guide, available from the BSM Help.

Operations Orchestration (OO) Integration: The integration of OO 10.00 with BSM 9.23 is only supported if OO and BSM are in the same domain. If they are in different domains, the integration fails.

The BSM integration with Atrium 8.1 is currently supported via RTSM. For details, see [this document](#).

Release Control (RC) Integration: If you are integrating BSM with Release Control (RC) 9.11 or earlier, perform the following procedure to solve an issue that prevents correct integration of RC Change Requests into the Changes and Incidents tab in Service Health.

1. Navigate to the Adapter Management page and in the Resources pane select **RcChangeAdapter > Configuration Files > convertFields.properties**.
2. Append the following line to the end of the file: `urgency=urgency`
3. Create a new properties file called `RcChangeAdapter/urgency.properties` and add the following lines:
 - `# File format:`
 - `# RC urgency value=uCMDB urgency value`
 - `Critical=1_critical`
 - `High=2_high`
 - `Normal=3_average`
 - `Low=4_low`
 - `#UNKNOWN= there is no available value in uCMDB: 'it_process_urgency_enum'`
4. Save the file.

If the integration does not work after following the above procedure, contact HP Customer Support.

HPOM Integration: More than one HPOM (formerly HP OVO) monitor can be created on the same port using the Copy function, resulting in duplicate HPOM events. In such cases, delete the copied monitor. Note that the HPOM Event monitor is not available when SiteScope 11.x is connected to BSM 9.x, unless the monitor was created in an earlier version of SiteScope that was upgraded to SiteScope 11.x.

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 BSM-Diagnostics integration (Admin>Diagnostics) an error occurs on short-name and there is no way to re-enter the FQDN (QCCR1I62229)

Description: You should use the FQDN when registering the Diagnostics Server with BSM. 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 BSM Gateway Server to clear the Diagnostics Configuration page in BSM:

```
http://topazhost/opal/uibrIDGE/action/registration.do?action=set_
registration&customer_name=Default%20Client&opal_protocol=&opal_port=&opal_full_
host=
```

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).

TransactionVision is missing from the Service Report data sources (QCCR1I45415)

Description: The TransactionVision data is not supported as a data source in Service Reports in BSM.

Workaround: None.

Scheduled reports do not get sent (QCCR1I66606)

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 BSM from **Admin > Platform > Setup and Maintenance > Infrastructure Settings > Scheduled Reports**.

Service Health

Administration

Rules API Examples: The Rules API that was introduced in Business Availability Center version 8.00 enables you to create new business rules for Service Health and Service Level Management, using the Groovy scripting language. The BSM documentation contains basic examples of API rules. Additional examples of rules based on customer requests can be found in the Self-solve knowledge base, on the [HP Software Support](http://www.hp.com/go/hpsoftwaresupport) web site (<http://www.hp.com/go/hpsoftwaresupport>), in document **KM778069**. This document is intended to be collaborative, and more API rules will be added to it based on customer input. If you have any comments on existing rules or suggestions for new rules, please provide feedback on the document within the knowledge base. Your feedback will then be included within the document.

Modifying an HI from being fed by metrics to being fed by events (QCCR1I42865)

Description: In general, when you manually edit an HI on a CI using the CI Indicators tab (for example to use a different calculation rule), the assignment mechanism does not override these changes. However, if you modify an HI from being fed by metrics to being fed by events, the assignment mechanism does not recognize this change, and the HI is restored to its original setting. This scenario is not likely in typical usage of BSM.

Workaround: None.

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

Starting from BSM 9.23, the Business Impact Bar icon is no longer visible in the Service Health application by default. To display the bar, select **Admin > Platform > Setup and Maintenance > Infrastructure Settings**. Select **Applications > Service Health Application**. In the **Service Health Application - Business Impact** area, modify the **Display Business Impact Bar** parameter to **true** (default=false).

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 (QCCR1142825)

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 (QCCR1146512)

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 BSM 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

Wiring to the NNMi Path View component does not work (QCCR1B47089)

Description: Wiring to the NNMi Path View component does not work. For example, if Top View and Path View are on the same page, when you select a CI in Top View, the Path View component does not show the path for this CI in NNM topology.

Workaround: None.

JavaScript errors when navigating from MyBSM (QCCR1I47291)

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 BSM, 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.

MyBSM Component Gallery opens behind the Top View and Topology Map applets in IE 9 (QCCR1I92526)

Description: When configuring MyBSM pages in Internet Explorer 9, the Component Gallery pop-up might appear behind the Top View and Topology Map applets.

Workaround: Close and then reopen the Component Gallery pop-up.

Performance issues when dragging Component Gallery pop-up in MyBSM (QCCR1I92585)

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

Rules API: The Rules API that was introduced in Business Availability Center version 8.00 enables you to create new business rules for Service health and Service Level Management, using the Groovy scripting language. The BSM documentation contains basic examples of API rules.

Additional examples of rules based on customer requests can be found in the Self-solve knowledge base, on the [HP Software Support](http://www.hp.com/go/hpsupport) web site (<http://www.hp.com/go/hpsupport>), in document **KM778069**. This document is intended to be collaborative, and more API rules will be added to it based on customer input. If you have any comments on existing rules or suggestions for new rules, please provide feedback on the document within the knowledge base. Your feedback will then be included within the document.

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 BSM 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.

Operations Manager i

Authorization

Deleted users and groups remain visible in the Event Perspective (QCCR1A91299)

Description: When user groups are added or deleted, the change is not immediately visible in the User Assignment dialog of the Event Browser or Event Details.

Workaround: After the refresh interval of 10 minutes, click the refresh button in the Event Browser toolbar. The deleted users and groups will not appear and any added users and groups should be available.

Content Packs: Exchange

Events from Smart Plug-In for Microsoft Exchange are not mapped to the correct Exchange Server CI if the Exchange Server is in a cluster (QCCR1A108412)

Description: If Exchange Server is hosted on cluster then the events from the Smart Plug-in for Microsoft Exchange is not mapped to the correct Exchange Server CI. This is only observed with the Exchange 2007 Servers hosted on clusters.

Workaround: None.

Content Packs: Infrastructure

Events from the policy "SI-NetworkUsageAndPerformance" may fail to map to the correct CI (QCCR1A130703)

Description: On a node that has multiple network interfaces, events from the policy "SI-NetworkUsageAndPerformance" fail to map to the correct CI.

Workaround: None.

Event Browser

Not all areas can be controlled using only the keyboard (QCCR1A156207)

Description: It is generally possible to control the Operations Management user interface using keyboard navigation. In some cases, however, a pointing device of some kind is required. For example, when an event is selected in the browser using the keyboard (arrow keys + space) the event details are updated, but the event is not delivered to other portions of the user interface. Other examples include switching between tabs and activating context menus.

Workaround: Use a pointing device when keyboard navigation is not possible or does not function correctly.

Monitoring Automation

Wrong MANAGER_ID is Received by the HP Operations Agent when BSM is Stopped (QCCR1A162033)

Description: If the BSM server is not fully functional when an HP Operations Agent is configured to connect to that server (using the `oainstall` or the `opcactivate` tool), the agent receives the wrong `MANAGER_ID` value. As a result, the communication between OMi/Monitoring Automation and the HP Operations Agent does not work correctly, for example template deployment may not work.

Workaround:

1. To check whether you ran into the problem, go to the following location:

- **Unix:** `/opt/OV/bin`
- **Windows:** `<BSM Installation Directory>\bin\win64`
(default): `c:\Program Files\HP\HP BTO Software\bin\win64`

2. Check `MANAGER_ID` setting on the agent with the following command:

`ovconfget sec.core.auth MANAGER_ID`

3. Check connectivity from agent to the BSM server with the following command:

```
bbcutil -ping http://<BSMserver>/com.hp.ov.opc.agtdatar
```

Note: `bbcutil -ping http://<BSMserver>` would deliver the wrong ID.

Tip: Alternatively, you can look up the correct `MANAGER_ID` value on the BSM server using the command:

```
ovcoreid -ovrg server
```

4. To correct the problem rerun the agent activation:

- **Unix:** `/opt/OV/bin/OpC/install/opcactivate`
- **Windows:** `<BSM Installation Directory>\bin\win64\OpC\install\opcactivate.vbs`

(default): `c:\Program Files\HP\HP BTO Software\bin\win64\OpC\install\opcactivate.vbs`

OS Type column is empty in the Add Policy Template to Aspect pane (QCCR1A170347)

Description: In the Add New Aspect wizard, the Add Policy Template to Aspect dialog, used to add a policy template to an aspect, lists all of the available policy templates. The OS Types column should show the operating systems that the policy template is restricted to (if any). This column is always empty, even if operating system type restrictions are set.

Workaround: Open the policy template to check whether the policy template is restricted to any operating system types.

Stream-Based Correlation

Filtering by priority fails in Stream-based Event Correlation (SBEC) rules (QCCR1A168591)

Description: Filtering by priority is not used for Stream-based Event Correlation (SBEC) rules. Setting priority filters can lead to SBEC rules not behaving as expected.

Workaround: If you are experiencing problems with SBEC rules and have set priority filtering in simple or advanced filters used in conjunction with the SBEC rules, complete the following steps appropriate for the type of filter to deactivate priority filtering:

- **Simple Filter:**
 - a. Open the filter for editing.
 - b. Select all priority options.
 - c. Save the filter again.
 - **Advanced Filter:**
 - a. Open the filter for editing.
 - b. Remove the priority property.
 - c. Save the filter again.
-

User Engagement

Tool execution cannot be counted in secure distributed BSM installation (QCCR1A164434)

Description: If BSM is installed and secured in accordance with the BSM Hardening Guide, where the port 8080 on the Data Processing Server (DPS) is not reachable from the gateway for HTTP connections, achievements that rely on the number of tool executions are not awarded. User Engagement is not able to count the number of executions in this case.

Workaround: Open the port 8080 for HTTP connections on the DPS server or do not activate the Cool Tool Provider, Distinguished Tool Provider and Star Tool Provider achievements.

Uninstallation of User Engagement components is not propagated to the Component Gallery (QCCR1A164500)

Description: After uninstalling User Engagement from BSM, placeholders for its components remain listed in the Component Gallery. The red cross displayed in the placeholder instead of the thumbnail picture indicates that the component was uninstalled and is no longer available.

Workaround: Uninstallation of these components is not supported.

Event suppression rules achievements do not trigger correctly (QCCR1A164545)

Description: Achievements related to the execution of event suppression rules cannot be triggered correctly. The Event Suppression Rule Execution activity (`omi.eventSuppression.triggered`) is sent an ID that User Engagement cannot understand. It is not possible to correlate the created event suppression rule with the Event Suppression Rule Execution activity.

Workaround: Do not activate the Cool Event Suppressor, Distinguished Event Suppressor and Star Event Suppressor achievements.

User Engagement stand-alone login page is displayed and log on fails (QCCR1A170793)

Description: It is only possible to display the User Engagement stand-alone login page, and log on attempts fail. Single sign on through the BSM application fails and the login screen is displayed instead of the page content.

Database SQL error messages might be displayed and errors are logged in the `excite.log` log file.

After running the redeploy script, following the installation of the BSM 9.23 service pack, the `<HPBSM>/excite/conf/excite.properties` file is deleted.

Workaround:

1. Check that the following file is available:

`<HPBSM>/excite/conf/excite.properties`

2. If this file has been removed, create an empty file in this directory with the name:

`excite.properties`

Note: Re-apply this workaround after every run of the redeploy script.

Do not remove the `excite.properties` file, even if it has no content.

End User Management

BPM and RUM Advanced with SLM licenses are not valid (QCCR1156279)

Description: BPM and RUM Advanced with SLM licenses are not valid in BSM 9.10 or 9.12. If you upgraded from a BSM 9.0x version in which you were using evaluation versions of such licenses, they will show as expired. RUM probes assigned an expired license will not monitor any application tiers. BPM applications assigned an expired license will still be monitored, but will have limited configuration options.

Workaround: Install and assign valid licenses.

RUM Admin - disable back-end tiers discovery in Generic protocols (QCCR1164131)

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.

Error in Alerts tab in End User Management (EUM) Administration when using Java 7u9 plug-in (QCCR1179407)

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**.

Failed to create RUM action when using more than 87 Asian characters in name or 166 in description (QCCR1189760)

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

Workaround: None.

RUM Mobile report displaying according to client server locale in IE (QCCR1192098)

Description: In Internet Explorer, the locale for the RUM Mobile Health Report is determined by the operating system locale and not by the locale in the browser's settings.

Workaround: None.

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.

BSM URL: Business Process Monitor registers with BSM using `http://<BSM Gateway Server name>/topaz`, and not with HPBAC or MercuryAM at the end of the URL. You must use this format when creating instances for Business Process Monitor.

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.

BPM instances on Windows

Description: You must run BPM instances on Windows 7 as a system user (default) or as a user with administrator privileges.

Workaround: None.

Default granularity of the BPM Custom Reports time filter is calculated differently (QCCR1160312)

Description: The default granularity of the BPM Custom Reports time filter is calculated differently in BAC 8.x and BSM 9.x. Thus, BPM Custom Reports created in 8.x may appear differently after being upgraded to 9.x.

Workaround: Edit the filter in 9.0 and select any granularity that you want for each component.

Real User Monitor

After upgrading to RUM 9.1x some locations are not supported (QCCR1161975)

Description: The following locations are not supported by Real User Monitor, and traffic monitored from these locations is reported with an unknown location:

- Congo The Democratic Republic Of
- United States Minor Outlying Islands
- Macedonia The Former Yugoslav Republic Of
- South Georgia And The South Sandwich Islands
- Korea Democratic People's Republic Of

Workaround: None.

Some active filters do not work on upgraded RUM data (QCCR1162276)

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 (QCCR1163076)

Description: RUM reports are not available in BSM.

Workaround: If you configure an application for RUM the first time you log in to a new BSM system, log out of BSM and log in again before accessing RUM reports.

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 BSM Help.

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 BSM is not running, the SiteScope will appear as registered with a configurable profile in System Availability Management Administration once BSM is running again. The SiteScope must be reset when BSM 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 (QCCR1139697)

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 an upgrade to BSM 9.2x, manually resynchronize SiteScope (QCCR1139744)

Description: If you upgrade to BSM 9.2x while using SiteScope 11.x, you should manually resynchronize SiteScope instead of waiting for topology data to be sent to BSM based on the Topology resynchronization time interval.

Workaround: None.

After JBoss Application Server recovery, there is no data in SAM Administration "Summary" (QCCR1144570)

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 BSM is restarted.

Workaround: Restart BSM.

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 BSM server that uses a load balancer (QCCR1156354)

Description: When registering SiteScope to a BSM 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 BAC/BSM:

- 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 BSM 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 BSM because you do not want to lose data, you can change the host name on SiteScope under BSM Integration Preferences (**Preferences > Integration Preferences > Business Service Management machine name/IP address**).

Issue with Operations Manager integration when BSM using an HTTPS reverse proxy or a load balancer (QCCR1159226)

Description: If BSM is using an HTTPS reverse proxy or a load balancer, you need to provide the HP Operations Agent on the SiteScope server with a certificate so that it can communicate securely with BSM.

Workaround: Check for an updated version of these release notes on the HP Software Support Site for details on how to manually configure the agent.

SISConfigurationEnrichmentUpgrader failure (QCCR1165694)

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

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

Transaction Management

Note: For additional release information on TransactionVision components, see the TransactionVision 9.23 Release Notes, available from the [HP Software Product Manuals](#) web site.

Transaction Management > Administration page does not refresh correctly (QCCR1147950)

Description: In rare cases, the **Transaction Management > Administration** page does not refresh correctly after some action and the following error appears:
com.hp.am.bac.tvb.admin.shared.TVAdminException: An internal error occurred.

Workaround: Navigate away from the Transaction Management Admin UI page (by going to the site map or some other page), then return to it. The page should be correctly populated.

Changes to the PresentationQuery.xml file are not reflected until reload (QCCR1162483)

Description: Changes to the **PresentationQuery.xml** file in the Transaction Management Admin user interface (**Admin > Transaction Management > Configuration > TransactionVision** folder > **Configuration** tab > **General** tab) are not reflected until the Transaction Management Admin user interface has been reloaded.

Workaround: None.

If the Analyzer logging configuration is set to allow very large log files, the log viewer in the Transaction Management Admin user interface may display incorrectly (QCCR1164232)

Description: If the Analyzer logging configuration is set to allow very large log files (above the default values), the log viewer in the Transaction Management Admin user interface may display all but the last two lines of the log file.

Workaround: The files may be viewed in their entirety on the Analyzer system.

Transaction Management Administration page issues a security warning (QCCR1192278)

Description: Accessing **Admin > Transaction Management** results in a security warning popup window that prevents BSM from bringing up the page.

Workaround: Verify that the warning is for the “HP BSM” application and the Publisher is Hewlett-Packard. In this case the security warning can be ignored. Select the check box and then click **Run** as directed in the popup window.

Business Process Insight

The following are the recommended limits to ensure optimum performance, that apply to modeling and tracking business processes using BPI:

- Maximum number of business process activities per business process model is 50
 - Maximum number of unique business process models per BPI deployment is 8
 - Maximum number of BPI monitors (amongst all business process models) is 20
 - Maximum number of events (amongst all processes per BPI deployment) is 200/sec
 - Maximum number of business process instances stored (amongst all processes per BPI deployment) is 500,000
-

Events from TransactionVision: If you start Business Process Insight while TransactionVision’s JMS Event Queue services for sending events to Business Process Insight are unavailable, or if the JMS Event Queue services become unavailable once Business Process Insight has started, the OVBPIJmsEventHandler Service stops. To solve this problem, you need to configure the Windows Service for the OVBPIJmsEventHandler Service under **Control Panel > Administrative Tools > Services**. You should configure the service in the same way as is described for adapter Windows Services in the *Integration Training Guide - Business Events*, by selecting the Recovery option and setting each of the First, Second and Subsequent Failures to the value of **Restart the Service**.

Modifying Servlet Engine Files: If you intend to modify the Servlet Engine (Tomcat) configuration files, you need to be aware that changes made directly to the Servlet Engine files are overwritten by Business Process Insight configuration files. Refer to the Business Process Insight Server Administration Guide for more details.

Missing Infrastructure Settings: If you see an error indicating that one or more Business Process Insight Infrastructure settings is missing, make sure that you have specified a value for the Microsoft SQL Server database name:

Instance Database Settings: Database Name

You need to provide a value for this setting even if you are configuring the settings for an Oracle database. It can be any string, but you cannot leave the field blank; if you do, you receive an error when accessing the Business Process Insight Application pages.

Servlet Engine Appears Not to Start: Very occasionally, following a system restart, the Servlet Engine appears not to have started, both within the Business Process Insight Administration Console and as a Windows Service. The Servlet Engine service is actually in the process of starting, but is taking a long time, possibly due to other applications causing delay; for example, the database can take a long time to start when it is very full.

If you think that you are experiencing this problem:

1. Click the **Start** button for the Servlet Engine from the Status screen on the Administration Console.
 2. Click the **Stop** button for the Servlet Engine as soon as it is enabled. Your Servlet Engine services are now synchronized and the Servlet Engine is not started.
 3. Restart the Servlet Engine as normal.
-

Unable to Contact RMI Registry During Component Startup: If you receive an error message indicating that the Business Process Insight Server is unable to contact the RMI Registry on port 44,000, this is likely to be due to a port number clash.

The Business Process Insight RMI Registry uses port 44,000, and if another application or service is temporarily using this port, then the RMI Registry cannot start. To resolve this problem, you can:

- wait and attempt to restart the Business Process Insight components again.
- use the Business Process Insight Administration Console to modify the port number for the RMI.

Select the Port Numbers tab from the Business Process Insight Server Administration Console to change the RMI Registry port number from 44,000. If you change the value for the port number, you need to make sure that any other configuration affected by this change is also modified, for example, the Business Process Insight Infrastructure settings.

Process Definition Cannot Be Progressed: Process fails to progress when common data and event definitions are derived from a single process.

The following scenario results in a Process definition that cannot be progressed:

- Create and deploy two Process definitions, each linked to the same Data definition.
- Separate the Processes completely by creating a new Data definition with identical properties to

the first Data definition.

One of the Process definitions is now linked to the newly created Data definition and no changes are made to the progression rules. In this case, the Business Process Insight Modeler should detect that the progression rules are referencing a different Data definition, but it does not and as a result, no process instances are created.

To resolve this problem, use the Export and Import options within the Business Process Insight Modeler to make a copy of a Process definition. Use the option to rename the definitions (not overwrite them).

See “How to Manage the BPI Modeler” in the Using Business Process Insight guide for details of making copies of your Process definitions.

Empty String Values and Null String Value Evaluation in Oracle: When entering property values for subscriptions within the Business Process Insight Modeler, be aware that the Oracle Server does not distinguish between a zero-length string, and a string with a value that has not been assigned (null string). This means that if you want to test a zero length string within a subscription, you are advised to use a single blank space (" "), and not an empty string ("").

Error Importing a Process Definition: If you see an error message similar to the following when importing a Process definition into the Business Process Insight Modeler, it is possible that you are attempting to import a Process definition with a name that contains characters that are locale-specific:

The file proc-defn-name.zip is not a valid import file. Please see the log file for more information.

where **proc-defn-name** is the filename, based on the Process definition name.

There are restrictions in the use of locale-specific character sets, whereby a .zip file name can contain characters only from the character set of the system locale where the Business Process Insight Modeler is running. The content of the file can contain any characters, but the file name is limited by the character set of the Windows system that is reading or writing the file. In the case of the zip archive files for exporting and importing processes, the zip archive file name is based on the Process definition name. Therefore, if you want to export a Process definition, you have to consider where you will be importing the file. If you plan to move the file across locales, you are advised to use only ASCII characters for the Process definition name to ensure the file can be read on any configured locale.

This problem can also occur if you change the locale of the Windows system where you have created the Process definitions.

Changing the Locale: If you modify the locale for a system where the Business Process Insight Server is installed, you might find that you cannot start the Business Process Insight Administration Console when you reboot your system. The Administration Console also returns an error indicating that it cannot find the main class and that the program will exit.

This can happen in cases where Business Process Insight is installed into a directory, which is named using locale-specific characters. If the locale for the system is then changed, it is not

always possible for the directory and file names to be readable using the character set of the new locale.

If you have changed the locale of the system where Business Process Insight is installed and you are experiencing this problem, you need to:

- revert to the original locale and continue to use Business Process Insight.
- revert to the original locale, uninstall Business Process Insight, configure the new locale, and then reinstall Business Process Insight into a new directory.

Installation on Turkish Locale Causes an Exception: If you attempt to run the Business Process Insight Installation procedure using a Turkish locale, the installer does not present the installation screens correctly and, as a result, you cannot answer the installation questions. This is a problem related to the installation software.

In order to complete the installation successfully, you need to temporarily set the locale to a United States locale. When you have completed the installation, you can reset the locale to Turkish.

Non-ASCII characters in the Oracle Database Data Directory: If you enter non-ASCII characters for the Oracle database data directory during the Business Process Insight installation, the installation fails with a Database Setup error. The error indicates that Oracle is unable to create the database instance or a database table.

If the Business Process Insight installer reports a Database Setup Error, and you have used non-ASCII characters for the name of the database data directory, you need to reinstall (overinstall) Business Process Insight into the same location, this time using a database data directory name that contains only ASCII characters.

Microsoft SQL Server 2005 Excessive Checkpoint Process I/O: If you are using Microsoft SQL Server 2005 and you are aware that you are having problems with database checkpoint I/O requests, you are experiencing a known problem with SQL Server 2005. The problem has been fixed by Microsoft and has the following Microsoft defect number: **50000708**.

Microsoft provided a solution for this problem in their Service Pack 2 for SQL Server 2005. You need to make sure that you have installed Service Pack 2. Microsoft also recommends that you use the -k3 startup parameter to limit the I/O requests generated by the checkpoint process. Refer the defect text provided by Microsoft, or the Microsoft documentation for details of using startup parameters.

InstallAnywhere Uninstaller Stops Responding: Many errors encountered when the InstallAnywhere uninstaller is running, for example, a missing JVM, causes the uninstaller to stop responding, or hang.

If you experience a problem where the Business Process Insight uninstaller stops responding, you need to complete the following tasks according to what you have installed:

1. Stop the uninstaller process, which is still running on your system. For example, on a Windows system use the Task Manager.

2. If you are removing a Business Process Insight Server, delete the Business Process Insight files under the Business Process Insight installation directory.
3. Modify the Zerog Global Registry (an InstallAnywhere file):
 - Open the registry file, which is usually located in `c:\Program Files\Zero G Registry\.com.zerog.registry.xml`. Note that on Windows the registry file is located in a hidden directory, so you might have to configure your system to display hidden directories and files.

If the registry file contains only entries for the product that you are attempting to uninstall, you can rename the file. However, if there are multiple product installations, or multiple instances of one product installation, you need to edit the file as described in the following step.

If the registry file contains entries in addition to those for Business Process Insight, edit the file to remove the following entries:
 - The product elements for Business Process Insight. Make sure the element references the directory where the files are located that you want to uninstall.
 - The components elements for Business Process Insight. Make sure the component element references the directory where the files are located that you want to uninstall.

Instance pages fail (QCCR1I30664)

Description: Business Process Insight instance pages fail when first accessed in a multi-domain LWSSO configuration.

Workaround: Access the **Process Repository Explorer** under the Business Process Insight **Admin** area in Business Service Management (**Admin > Business Process Insight > Process Repository Explorer**). After doing this, the process instance pages can be accessed normally.

BPI does not support Oracle 11g RAC (QCCR1I33021)

Description: BPI does not support Oracle 11g RAC.

Workaround: None.

Business Process Diagram context menus intermittently shows JavaScript errors (QCCR1I34412)

Description: Context menus within Business Process Diagram intermittently show JavaScript errors.

Workaround: Close all open browsers and reopen the BSM user interface.

List of monitors in the Business Health tab on the BPI Health page includes default non-grouped monitors (QCCR1I35229)

Description: On the **BPI Health** page, when you specify a non-default process grouping (other than **All**), the list in the **Business Health** tab at the bottom of the **BPI Health** page includes both the Business Process Monitors that match the grouping criteria and the Business Process Monitors that have no Process Definition Group Property specified.

Workaround: If you want to segregate all Business Process Monitors by groups, then designate a group value for each of the Business Process Monitors when you create or update the Business Process Monitors in the Monitor Definer.

Monitor Definer landing page does not show the data collected for the State group (QCCR1135230)

Description: If a Business Process is deployed with a Group property (such as **Region**) and a Business Process Monitor is defined with a different Group property (such as **State**) then the Monitor Definer landing page will not show the data collected for the **State** group.

Workaround: Define the same Group property for both the Business Process and Business Process Monitor to see the group breakdown in the landing pages.

Deadline thresholds for Business Process monitors cannot be calculated (QCCR1138172/QCCR1138173)

Description: Deadline thresholds for Business Process monitors cannot be calculated if the name of the deadline property has greater than ten characters and the BPI Instance Database is on an Oracle server.

An error can occur when calculating the deadline or status for deadline thresholds on Business Process monitors if the BPI Instance Database is on an Oracle server. This error appears in one of two ways:

- The value of the deadline is listed as **Deadline unavailable**, while the following warning message appears in the Monitor Engine log:

WARNING: Monitor generation failed for... ORA-00972: identifier is too long: ...

- The monitor status is listed as **No monitor information recorded for process instance**, while the following warning message appears in the Monitor Engine log:

WARNING: Monitor generation failed for... ORA-00904: ... invalid identifier...

Workaround: Change the name of the deadline property to 10 or fewer characters.

Security warnings when launching the BPI Modeler (QCCR1138624)

Description: When launching the BPI Modeler, you may see any of the following security warning messages:

- The application's digital signature cannot be verified.
- Part of the application is missing a digital signature. Only run if you trust the origin of the

application.

- And after clicking **More Information**,
Although the application has a digital signature, the application's associated file (JNLP) does not have one.

Workaround: The messages can safely be ignored.

KPIs that contain multiple related Health Indicators are not shown in the Business Health tab in the Health page (QCCR1138672)

Description: The Business Health tab in the Health page displays a gauge for all KPIs that have configured objectives. Any KPIs that contain multiple related Health Indicators, however, will not be displayed.

Workaround: Create a unique KPI for each Health Indicator.

Instance violation counts are always zero on the Health page (QCCR1139397)

Description: The Business Health tab in the lower-right pane of the BPI Health page shows how many BPI monitor threshold violations there have been within the most recent sample period. The sample period corresponds to the period at which data samples are sent to BSM. If the sample period is too short, or the clocks are not synchronized between the database and BPI Server hosts, the violation counts may always be zero.

Workaround: If the violation counts on the BPI Health page remain zero when you expect there to be violations, check the following:

- Ensure the clocks are synchronized on the host systems for the database server, BPI server, and BSM.
 - Increase the Data samples send interval option on the HP Business Service Management settings page of the BPI Server Administration Console.
-

Errors may occur if a non-admin Oracle user attempts to install a BPI instance database with tablespace names that already exist in Oracle DB (QCCR1142012)

Description: When installing the BPI instance database on an Oracle database where pre-existing BPI tables exist (from a previous BPI installation where the Keep BPI data option was selected during the previous version uninstall), errors may occur if the database setup is conducted by a non-admin Oracle database user.

Workaround: When installing BPI against an Oracle database where legacy BPI database data has been retained from a previous installation, perform the BPI Instance database setup on the Oracle database as the Admin Oracle database user.

When deleting a previously created Data definition in BPI Lite mode an error may occur (QCCR1145844)

Description: When using the Modeler in BPI Lite mode (BPI is not licensed or the BPI Server is not running), and you delete an existing Data definition that was created for a Business Process in BPI Full mode, an error may occur.

Workaround: Re-create a Business Process model with no Data definitions.

Filter Validation Error in the Monitor Over Time report (QCCR1147399)

Description: In the Monitor Over Time report, a Filter Validation Error occurs if you did the following: 1) opened the Monitor Over Time report immediately before you created a monitor, 2) navigated directly to **BPI > Admin > Monitor Definer** and added a monitor, and 3) navigated back to BPI Applications through the application menu **Application > Business Process Insight**, which reopens the Monitor Over Time report and the Filter Validation error.

Workaround: If you go out of the Monitor Over Time report by navigating to another report, or to the site map, and then reopen the Monitor Over Time report, the error is resolved.

Process Definition Name and the Data Definition Name cannot be identical (QCCR1148053)

Description: When creating a Business Process Model in the Modeler, the Process Definition Name and the Data Definition Name cannot be identical. Be sure that the Data Definition Name string is different from the Process Definition Name for all Business Processes.

Workaround: Change the Data Definition Name using the Modeler if necessary.

BPI Value monitors show the completed process value instead of the value of the activities in the span (QCCR1148691)

Description: If you create a BPI Value monitor that spans multiple activities, and the value does not change from one activity to another, the monitor reports the value for the last activity in the span. However, in such cases where the value changes across activities, the monitor reports the value of the completed process even if the last activity that completes the process is not in the defined span.

Workaround: None.

Error when using TV-BPI integration and the Decimal column type (QCCR1150361)

Description: When opening an event definition exported from the TV txn that has a data field of decimal type, an error occurs.

Workaround: When using TV-BPI integration, do not use the Decimal column type either when creating a data column in the UI or when creating XDM definitions by hand through XML. Use Double instead of Decimal.

Selecting the PDF menu item in the Scorecard reports does not work for some Business Processes (QCCR1156352)

Description: Selecting the PDF menu item in the Scorecard reports does not work for some Business Processes and may display the error message: HTTP 500 error.

Workaround: None.

Modeler occasionally fails to start with error "Unable to use remote proxied object" (QCCR1160390)

Description: Occasionally, when the BPI Modeler is launched, an error repeatedly appears that the Modeler cannot access the process repository.

Workaround: One of the following five actions may resolve this issue. Perform each action in the order listed, checking for the problem resolution after each one.

Note: You must have BSM Administrator permissions to perform these steps.

1. Make sure that the browser on the system hosting the BSM-UI browser session is configured to use Java 1.6 **javaws**.

The Java 1.7 version of **javaws** when used by the browser may not be compatible with the modeler **JNLP** launch configuration/arguments and can cause the modeler to not launch.

2. Ensure the process repository service is up and running.
 - a. Launch the **HP Business Service Management Status** panel on the BSM host.
 - o For Windows, access: **Start > All Programs > HP Business Service Management > Administration > HP Business Service Management Status**.
 - o For Linux, access: `http://<BSM_FullyQualifiedHostName>:11021/invoke?operation=showServiceInfoAsHTML&objectname=Foundations:type%3DNannyManager`
 - b. After you launch the Status panel and log in, look for a **ServiceName** called **bpi_process_repos**.
 - c. Verify that the **bpi_process_repos** Status is **STARTED**. If not, you may need to restart BSM.
 - d. If you have a full BPI installation with a licensed server, ensure that all the BPI components are running on the BPI Administration Console Status page.
3. Ensure your browser has the appropriate proxy configuration.

Access the Proxy settings dialog box to see if the BSM domain has a proxy exception in the proxy exceptions list. For example, if your BSM server is called **bsm.hp.com**, then the proxy exception would be ***.hp.com**. Internet Explorer calls these proxy **Exceptions**, and Firefox calls these **No Proxy for**. If there is no BSM domain proxy exception, and it is appropriate, add the BSM domain to the exceptions list.

Accessing the Proxy Settings panel varies depending on the type of browser and browser version you use to access BSM. Usually, the proxy settings can be configured from the browser tools or options panels in the network configuration or LAN settings under proxy servers.

4. Clear **javaws** cache.

Typically, the **bpimodeler.jnlp** file in **javaws** cache is updated when changes are detected, but by manually uninstalling the application from **javaws**, you ensure a fresh download of the **bpimodeler.jnlp** from the BSM server. On the system where you plan to launch the modeler, run **javaws –uninstall** in a command prompt.

5. Clear the browser cache of BSM cookies.

Your browser cache may contain a stale BSM cookie, which does not have the correct session ID and/or proper credential information. This can occur during unusual BSM shutdown scenarios where the Modeler was running at the time of the BSM shutdown.

Clearing the cache specifically for BSM is different depending on which browser you are using:

■ Firefox Browser

- i. Select the **Tools > Options > Privacy** tab.
- ii. On the Privacy tab, click the **remove individual cookies** link. A dialog box opens with a list of cookie sites.
- iii. Search through the sites for the hostname of your BSM host and select it.
- iv. Click the **Remove Cookie** button at the bottom to remove the cookies associated with the BSM host site and close all Tools windows.

■ Internet Explorer Browser

The following procedure ensures proper deletion of the targeted cookies, rather than using the Internet Explorer cookie removal tool, which may not always permit file deletions.

- i. Select the **Tools > Internet Options > General** tab.
- ii. Click the **Settings** button for deleting temporary files, history, cookies, and so on. A Settings dialog box opens.
- iii. Click the **view files** button to view the cookies, which are opened in a Windows Explorer window to your local Temporary Internet Files location.
- iv. Open a second Windows Explorer window.
- v. Copy and paste the Address line (for example, C:\<Local Settings>\Temporary Internet Files) from the original Windows Explorer window opened by the IE browser, to the second Windows Explorer window.

All the cache files are visible from this second window.

You can now delete any of the IE browser cache files from this second Windows Explorer window.

- vi. Search for and delete a pair of files called topaz/ (see the adjacent Internet Address column):
 - One file is associated with **Cookie:<user>@<bsmhost>/topaz/**.
 - One file is associated with **http://<bsmhost>/topaz**.

BPI Administration page issues a security warning (QCCR1192279)

Description: Accessing **Admin > Business Process Insight** or **BPI Modeler** results in a security warning popup window that prevents BSM from bringing up the page.

Workaround: Verify that the warning is for the “HP BSM” or “BPI Modeler” application and the Publisher is Hewlett-Packard. In this case the security warning can be ignored. Select the check box and then click **Run** as directed in the popup window.

Run-time Service Model (RTSM)

Installation and Upgrade

It is now possible to manually update the MySQL version on the installed 9.05 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.

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 BSM 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 previous versions of BSM, 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**.

Before installing a Content Pack, make sure that BSM is running and that you run the JMX operation, **adjustFactoryClassModel**, to align the class model. The **adjustFactoryClassModel** operation can be found with the Class Model Services. This operation aligns the factory flag for all classes and all class properties (such as attributes, qualifiers, and so on).

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.

When upgrading from BAC 8.0x to BSM 9.2x/RTSM 9.05, the following limitations apply:

- Generic Breakdown Reports with four breakdown criteria will lose the fourth criterion. Only three breakdown criteria are supported in version BSM 9.2x/RTSM 9.05.
 - RTSM 8.x annotated reports are no longer supported in version BSM 9.2x/RTSM 9.05. They will be lost upon upgrade.
-

If the root CIT configured in UCMDB before the upgrade from BAC 8.0x was IT_World, the value of it after the upgrade is Managed Object.

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 BSM 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.

Reports

Adding deep folding to the report layout sometimes causes an error on PDF export.

To enable hyperlinks in reports, set the infrastructure setting **Enable links in exported reports** to **TRUE**. To display icons in exported reports, set the infrastructure setting **Display icons in exported reports** to **TRUE**.

When you open the Compare Snapshots Report from IT Universe Manager, the **Send Mail**, **Generate Direct Link**, and **Export Report** buttons are enabled before a report is generated. If you click them, they have no effect.

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

Integration job for syncing (population syncing) between RTSM and CMS is limited to 500,000 CIs and relationships (QCCR1179192)

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 BSM and the central CMDB (or vice versa) 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 BSM may be lost as well.

Workaround: If you plan to stop data synchronization between BSM 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 BSM 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 UCMDB 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 BSM, see the BSM System Requirements and Support Matrixes Guide associated with the version of BSM you are installing.

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.

Documentation

The RTSM Best Practices Guide that was released with BSM 9.23 contains inaccurate information about the Data Push integration. Although the guide recommends using Data Push for topology synchronization from CMS to BSM, it is supported only when integrating data from UCMDB/CMS 10.01 CUP5 and later to BSM 9.22 and later. The corrected information is available in the RTSM Best Practices Guide available from the [HP Software Product Manuals](#) web site.

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

In the BSM Application Administration Help and Guide > Service Health, in the topic titled How to Set Up a Geographic Map, the instructions refer to a version of JRE that is no longer supported with BSM. In BSM 9.23, JRE version 7 update 45 is supported.

In the BSM Application Administration Help and Guide > Transaction Management, in the topic titled Null Pointer Exception After BSM Login, the text refers to a version of JRE that is no longer supported with BSM. In BSM 9.23, JRE version 7 update 45 is supported.

Multilingual Support

BSM/OMi

User cannot change currency symbol in SHA (QCCR1170497)

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.

CI Statures from definitions "Changed from" and "Changed to" are displayed on BSM Server locale for OMi Event Console (QCCR1153350)

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

To enable MLU support in PDF reports User should specify Unicode font in Infrastructure Settings Manager > Foundations > Reporting > “Unicode font path for displaying PDF characters” (QCCR1I21288)

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)

RUM

RUM Engine 'Transaction Management Configuration' page UI will be on JVM locale instead of browser one (QCCR1I57500)

RUM Installer is missing fonts of Chinese/Japanese/Korean on RedHat 6.x (QCCR1H72432)

RUM Installer does not display Korean characters, shows "empty squares" on Linux systems (QCCR1H72088)

BPI

UI of BPI modeler is displayed as BSM Server OS locale (QCCR1I69767)

Installation on Turkish Locale Causes an Exception: If you attempt to run the Business Process Insight Installation procedure using a Turkish locale, the installer does not present the installation screens correctly and, as a result, you cannot answer the installation questions. This is a problem related to the installation software.

In order to complete the installation successfully, you need to temporarily set the locale to a United States locale. When you have completed the installation, you can reset the locale to Turkish.

Non-ASCII characters in the Oracle Database Data Directory: If you enter non-ASCII characters for the Oracle database data directory during the Business Process Insight installation, the installation fails with a Database Setup error. The error indicates that Oracle is unable to create the database instance or a database table.

If the Business Process Insight installer reports a Database Setup Error, and you have used non-ASCII characters for the name of the database data directory, you need to reinstall (overinstall) Business Process Insight into the same location, this time using a database data directory name that contains only ASCII characters.

Diagnostics

Diagnostics - no support for non-English characters in Java and .NET Probes names (QCCR1I57918)

SiteScope

SiteScope Installer is missing fonts of Chinese/Japanese/Korean on RedHat 6.x (QCCR1H72432)

SiteScope Installer does not display Korean characters, shows "empty squares" on Linux systems (QCCR1H72088)

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 issues that were previously published in the BSM Release Notes and that have been fixed in this release.

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 [Software Patches](#) page, accessed from the [Downloads](#) page on the [HP Software Support](#) web site (<http://www.hp.com/go/hpssoftwaresupport>).
2. Log in with your HP Passport credentials.
3. Select the relevant product and version (for example, **Application Performance Management (BAC) > 9.23**), and click **Search**.
4. Click the name of the patch for which you want to see fixed issues (or that you want to download). A page containing information about the patch and a link to download the patch displays.
 - You can review symptom and resolution information for fixed issues in the **Symptoms** and **Defect Descriptions** sections of the page.
 - You can click any specific change request in the **Change Requests** section of the page to view detailed information about that CR.

Issues Fixed in this Release

Staging Data Replicator (SDR) issues (QCCR1I63137)

The System Health Capacity Meter page appears in English only (QCCR1I84104)

The System Health Installer appears in English only (QCCR1I84596)

First attempt at logging in to System Health from BSM fails when BSM is hardened for smart card authentication (QCCR1I85002)

Unable to delete custom graphs in Operations Management in Internet Explorer 8 (QCCR1A119284)

Missing data in daily and weekly reports (QCCR1I77388)

Changes to breakdowns may result in inconsistent KPI statuses (QCCR1I70973)

Faulty API (Groovy) Rules can cause the Service Health Application to display an error until the rule is fixed, and processes are restarted (QCCR1I80719)

If the MARBLE worker process is restarted manually or fails during a calculation cycle, MARBLE fails and does not recover (QCCR1I80918)

If the MARBLE supervisor process is restarted manually or fails during a calculation cycle, MARBLE fails and does not recover (QCCR1I80928)

Drilldown menu working incorrectly in reports with a tree table in Internet Explorer 9 (QCCR1I69035)

RUM Text Pattern events are not functional for Oracle NCA over TCP (QCCR1I54373)

The Printer-Friendly application summary report does not collapse the application names by default (QCCR1I85761)

Error appears when accessing the Administration page (QCCR1I50435)

Previously Fixed Issues

System Health - Incorrect paths and file names for OPR log monitors (QCCR1I77004)

System Health - "Database Connectivity" and "Database Statistics" monitors for the OMi database failing (QCCR1I78296)

During BSM upgrade, Staging Data Replicator starts with the following error: Could not find or load main class com.mercury.am.platform.bac2go.authutil .ModifyXML SDR not running (QCCR1I78085)

Files empty when exporting reports to CSV format (QCCR1I77721)

BSM Installation Guide contains some inaccuracies in the Disaster Recovery chapter (QCCR1I78770)

User permission issue on BPM location view for Application EUM reports (QCCR1I77756)

No application information shows in BPM edit screen (QCCR1I78880)

Add drill to "BPM Performance Over Time " for BTF using System Health (QCCR1I73358)

During RUM upgrade, Import User Configuration data fails due to ArrayIndexOutOfBoundsException when reading Beatbox_Default_Const_Configuration.xml (QCCR1I78137)

Events from data collectors are buffered and the OVC process is not running (QCCR1A143704)

After rollback of 9.21 SP content cannot be redeployed and Dashboards can not be initialized (QCCR1A152986)

Certificate configuration is corrupted after deleting a configured database and re-creating it (QCCR1A152708)

Wrong BSM versions displayed in BSM install/uninstall screens (QCCR1I79126)

BSM_DT service will not start and RUM and BPM data will not enter BSM if all downtime definitions are invalid (QCCR1I85483, QCCR1I84606)

JRE 7 Update21 breaks previously existing Java Security Policies, making BSM inaccessible (QCCR1I85734)

9.20 UCMDB Packages are not available after upgrade (QCCR1A146975)

CI Resolver initialization is blocked if CI label is too long (QCCR1A146666)

Gateway Servers do not get their node certificate automatically assigned (QCCR1A146503)

Upgrade Wizard may hang when pressing Back in the OPR Database Settings dialog box (QCCR1A144886)

Configuration continues after fatal error and skips further important configuration steps (QCCR1A144758)

Cannot configure authentication for JMX-RMI channel on Linux environment (QCCR1I79387)

Cut and paste of CI does not impact downtime (QCCR1I79391)

No downtime impact on SLM Business Transaction CI (QCCR1I79482)

Predefined graphs for HP Operations Smart Plug-ins (SPIs) are not coming up in Performance Perspective, except for the HP Operations Smart Plug-ins for Infrastructure (QCCR1A153103)

Data not available for some monitors for new SiteScope monitors (QCCR1A145635)

Report filter does not work properly when the word "error" is in the report name (QCCR1I79257)

In MyBSM > SLM page, Current Status Snapshot does not show all SLAs when the SLAs node is selected in SLA Selector (QCCR1I79325)

In the Health Indicator component, if an event has arrived twice, there is no tooltip for the related HI (QCCR1I66891)

In EUM alerts, an Event Data Value cannot be added to RUM Event Alert filter (QCCR1I69978)

WebTraces over UDP protocols do not work (QCCR1I56114)

Downtime configuration not working when accessed from EUM Admin > BPM/RUM Configuration page (QCCR1I85280)

Global values used for HIs instead of local ones in breakdown per location LIVs. Location name not reported in new BPM versions (QCCR1I76627)

Unable to add a BPM configuration to an existing Business Transaction Flow in EUM Administration (QCCR1I75225)

Generating SAM Reports (QCCR1I66800)

Dynamic Disk Space monitor is not affected by CIs associated with downtime in BSM (QCCR1I79033)

User with System Viewer permissions can edit Metrics and Indicators settings in SAM Admin (QCCR1I83769)

Drilldown from Transaction Management Transaction Summary report to RUM Transaction Summary generates a stack trace and does not get generated (QCCR1I78476)

Precision of Monitor Instance Values (QCCR1I28156)

Landing pages not displaying monitor values and statistics to double precision (QCCR1I29319)

Monitors with a type of Absolute Duration raise violations before an instance has completed (QCCR1I31705)

Errors with long names for the BPI Instance database and user name (QCCR1I41558)

SiteScope SAP CCMS Alert monitor is not displayed (QCCR1I46581)

It is now possible to update the MySQL version on an installed Data Flow Probe. For details, see Update MySQL Version on Data Flow Probe. (QCCR1H77847)

The CmdbAdapter.zip of the CUP is now automatically deployed. (QCCR1H79779)

The data locks now release even after the thread gets interrupted and encounters a timeout. (QCCR1H78668)

It is now possible to select all IP ranges in the probe and in a protocol. (QCCR1H78720)

Empty values for a list attribute are now correctly returned when retrieving history. (QCCR1H78429)

Triggers for discovery jobs are no longer failing with a java.lang.ClassCastException error due to missed type check in the code. (QCCR1H76469)

Discovery no longer fails if there are problems with trigger CIs. (QCCR1H78765)

It is now possible to create an aging report filter when logged in on a machine in the French language. (QCCR1H78575)

**HP ServiceNow integration job no longer fails with the following exception:
java.lang.Exception: Traceback (most recent call last): File "<string>", line 2, in <module>. (QCCR1H78725)**

The Generic Database adapter no longer fails to connect after updating to this CUP8 (as occurred when updating to version 9.05 CUP6 using Content Pack 10). (QCCR1H80338)

When an Integration Point is deactivated, no integration jobs are running (even if they were previously set to run in the scheduler). (QCCR1H80422)

When a pattern-based model is created, saved, and reopened, the model type remains consistent and it no longer appears as an instance-based model. (QCCR1H79720)

The LDAP Mapping module now displays all groups that are retrieved from the LDAP server. (QCCR1H79276)

Incremental calculations of partial-graphs in Enrichments no longer contain incorrect link conditions. (QCCR1H78428)

Introduced the `omit.external.ends.ids` setting in the Generic Push Adapter which filters out the `end1Id` and `end2Id` parameters. (QCCR1H79598)

A JMX method was added for cleaning obsolete records from the LOA table. (QCCR1H79265)

Fixed issue with GDBA package redeployment. It is now possible to avoid starting adapters on the server. (QCCR1H79634)

Improved functionality of the discovery auto trim attribute qualifier when it is enabled together with the Lower/Upper case attribute qualifiers. (QCCR1H79950)

Improved discovery statistics data structure. (QCCR1H79197)

A JMX method was added to clean up the CCM discovery tables. (QCCR1H79534)

Improved the way errors with results containing only one bulk are reported. (QCCR1H80326)

Error messages from the Get All Models flow are now displayed both in the UI and in the log. (QCCR1H81255)

Improved Jetty logging to avoid message spamming. (QCCR1H81251)

Improved the pattern-based model scheduler. (QCCR1H81578)

Added timeout to data-in operations. (QCCR1H80789)

Improved the way history schema tables are created when the main schema already exists. (QCCR1H80827)

Enhanced the Content Pack deployment to run a data update. (QCCR1H81542)

Improved the analysis process for adding/removing a large bulk of links. (QCCR1H81294)

Improved the handling of multiple triggers for a single job at the same time. (QCCR1H80873)

Template-based views now get the inter-layer property from the base template and inter-layer links are no longer displayed for the view if the property is disabled. (QCCR1H81225)

System Type Manager list definitions can be deleted and no longer cause unidentified errors. (QCCR1H81199)

Integration jobs populating CIs from UCMDB to RTSM no longer fail with a Couldn't update link error. (QCCR1H81634)

Warning messages are no longer repeated in reconciliation logs. (QCCR1H81160)

The Show Element Instances option for a TQL now displays the expected number of elements. (QCCR1H77566)

Fixed issue with CUP5 deployment not opening properly when Cmdb9xAdapter was being used. Correct API was added to CUP6 to fix the problem. (QCCR1H78064)

When working in BSM, the RTSM got stuck due to deadlocked threads. A part of the synchronization was removed so that the deadlock no longer occurs. (QCCR1H77902)

Relationship changes can now be authorized in State Management. (QCCR1H77389)

When exporting CI attributes based on enumerated data type, the correct value is now returned. (QCCR1H76305)

Enhanced identification mechanism to improve performance of Host Connection by SNMP job. (QCCR1H76539)

When using the SM adapter, new CIs pushed into UCMDB are detected and replicated in HP Service Manager. (QCCR1H76612)

Improved operation of Get Related CIs permission. (QCCR1H76692)

Attribute conditions can be set when creating a new query in the Enrichment Manager for attributes of type String List. (QCCR1H76695)

Time display format is consistent, defaulting to local time. (QCCR1H76782)

The state of the Active check box for jobs appearing in Administration > Scheduler can now be changed. (QCCR1H76796)

After RTSM2CMS diff sync, the display label of several nodes no longer becomes blank as a result of deletion and changes of the same CI in source and target. (QCCR1H75366)

Jetty does not redirect "/" (root to login page when root-context is configured but not used. (QCCR1H75560)

Application performance is ok when opening a TQL definition. (QCCR1H75267)

Model Editor in Modeling Studio does not distort the model name after deleting the models' content and clicking Save. (QCCR1H75612)

"Relationship restriction" and direction can be set for Virtual compound relationships. (QCCR1H65840)

Improved login performance. (QCCR1H75844)

UI's servlet now knows how to handle junk URLs. (QCCR1H75493)

When filtering related CIs on "Running Software", children CIs are no longer returned in the count. (QCCR1H72781)

In "Apply Perspectives to CI", the perspective description in "Description" field is actualized. (QCCR1H73029)

Efficiency of Data Container update using Identification has been improved. (QCCR1H75875)

The Java API getCIsErrorData(errorId) is no longer returning an empty collection. (QCCR1H75155)

"J2EE WebSphere Connections by JMX" connects to the websphere node by SSL protocol when the UCMDB server communicates with the DDM Probe by SSL protocol. (QCCR1H74154)

You can now configure a role which enables the user to add or modify WMI credentials only. (QCCR1H74775)

The user can use "Changed during x ([hours])" operator when creating an enrichment. (QCCR1H74854)

The direct link URL for scheduled reports is generated properly when a reverse proxy is configured. (QCCR1H73981)

Integer attributes can be enriched with a value from another CI. (QCCR1H73728)

GUI Export to XML succeeds in jdom for bad characters. (QCCR1H74842)

Enrichment: the append operation on a string-list works correctly. (QCCR1H74345)

Editing properties of a CI in the ITU Manager works correctly. (QCCR1H74703)

There is no "SSL handshake failed" error when running the Oracle Database Connection by a SQL job. (QCCR1H75819)

RTSM starts on the tql_res_utils service. (QCCR1H74761)

Removing key attributes works in Consolidated Mode. (QCCR1H73920)

The JMX function initializeHistoryDBFromModel succeeds. (QCCR1H75743)

When LDAP is configured, UCMDB Web Service users are also supported. (QCCR1H66187)

There is no intermittent problem with saving schedules on integration jobs for a particular adapter. (QCCR1H76173)

Activating enrichment does not cause a calculation failure if the TQL calculation does not end on time. (QCCR1H72951)

The user can now change the CI Type icons based on values from the Is Candidate for Deletion attribute. (QCCR1H74862)

Comparing snapshots in UI does not cause an error after purging the history DB. (QCCR1H75090)

BasicClassUpdater prints full information about failed calculated links and typedefs. (QCCR1H75221)

XML Export Adapter succeeds in jdom for bad characters. (QCCR1H75711)

Reconciliation Priority displays the Integration Point under Attribute Overrides when <<All Integrations>> is selected. (QCCR1H76035)

History purging on MS SQL no longer causes SQLException - Cannot find the object "CHANGE_ID_TMP". (QCCR1H76504)

In some locales scheduled reports are not sent due to improper conversion of date strings. (QCCR1I79528)

The localized Diagnostics_Content_Pack.xml for de, es, fr, ja, ko, ru, and zh_CN languages will not be in BSM 9.20 packages. As a result, L10N users will see English CI and KPI names. (QCCR1I75556)

Management reports by default do not support UTF-8 encoding. Workaround is to check International version check box in Preferences > General Preferences. (QCCR1I56586)

For SiteScope versions 11.10 or earlier integrated with OMi – CI names characters and alert names are not readable in OMi Event console. Workaround is to use same locale as SiS server OS in the entities' names (QCCR1I43630)

BSM/SHA Installer does not support Japanese, S-Chinese, Korean, German on Linux system (due to QCCR1H72432 and QCCR1I73877, these languages are disabled on Linux)

RUM Installer is not localized to Spanish (QCCR1H70346)

BSM/SHA Installer is not localized to Spanish (QCCR1H70346)

SiteScope Installer is not localized to Spanish (QCCR1H70346)

We appreciate your 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 (Business Service Management 9.23)

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 SW-Doc@hp.com.