



HP Operations Manager i

Software Version: 10.01

Release Notes

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Operations Manager i Release Notes

Software version: 10.01

Publication date: October 2015

This document is an overview of the changes made to Operations Manager i (OMi) in versions 10.00 and 10.01. Because OMi 10.00 included many additions and advancements, the updates and new features for that version are included here, in addition to the latest information about OMi 10.01.

You can find information about the following in this document:

["OMi 10.01 Installation " on the next page](#)

["New Features in OMi 10.01" on page 8](#)

["New Features in OMi 10.00" on page 13](#)

["Changed Features in OMi 10.00" on page 21](#)

["Notes and Limitations" on page 22](#)

["Documentation Errata" on page 29](#)

Support Matrix

For information about supported environments and compatibility with other products, see the Operations Manager i Support Matrix. The support matrix may be updated between releases, and so is only available at the HP Support web site:

<http://support.openview.hp.com/selfsolve/document/KM323488>

OMi 10.01 Installation

The OMi 10.01 Installation files are in the following location:

HP_OMi_10.01_for_Linux.zip

HP_OMi_10.01_for_Windows.zip

For steps to install Operations Manager i, see the Operations Manager i Installation and Upgrade Guide:

1. Unpack the .zip file for the OMi 10.01 installation and documentation.
2. Open the Documentation folder.
3. Double-click HP_OMi_Installation_and_Upgrade_Guide.htm to open the OMi 10.01 Installation and Upgrade Guide in a web browser.

Upgrade: You can upgrade from BSM 9.2x to OMi 10.01, where x is higher than or equal to 4. Both in-place and side-by-side upgrade methods are supported.

Update: You can update from OMi 10.00 to OMi 10.01 using the in-place method.

For details on installation, upgrade, and update, and the hardware and software requirements for OMi, see the [OMi Installation and Upgrade Guide](#).

New Features in OMi 10.01

User Experience

- **Event Browser as a popup from Monitoring Dashboard.** The preferences of the Monitoring Dashboard My Workspace component have been extended to include the **Open Event Browser on Click** option. The **Open Event Browser on Click** option configures the Monitoring Dashboard to open the Event Browser in a popup window when you click a widget. With this option selected, you can save space on your My Workspace page by excluding the Event Browser from the page. The Event Browser opens on demand in a new window.

- **System Purpose Indicator.** The Purpose Indicator allows administrators to customize the color of the OMi bar, which is HP blue by default. It also includes an optional label indicating the purpose of the OMi system, for example, Test System, Production System, or Mid-Level Manager-of-Manager System.

For details, see **Administration Guide > Introduction > Customizing the OMi UI** in the OMi Online Help.

- **Launch tool on multiple events or CIs in parallel.** OMi now enables you to launch a tool on multiple CIs or events in parallel as opposed to having to launch a tool on one CI or event after the other. You can launch tools on events, CIs and nodes.

When started from multiple CIs or events, the Run Tool wizard offers a list of matching tools for you to choose from. The tool is then started in parallel on the corresponding host systems. The execution results are combined in the Results page of the wizard for you to view and check. Additionally, you can stop a running tool or rerun it.

For details, see **User Guide > Introduction > Tools** in the OMi Online Help.

- **Monitored Nodes UIs display a list of existing assignments for a selected node.** You can now retrieve a list of existing assignments for a selected node. For details, see **Administration Guide > Setup and Maintenance > Monitored Nodes** in the OMi Online Help.
- **Updating description of original event.** An Infrastructure setting has been added that allows you to update the description of the original event with the description of the last duplicate event by setting the **Update Description of Original Event** infrastructure setting to true. For details, see **Administration Guide > Setup and Maintenance > Infrastructure Settings > Infrastructure Settings for Operations Management** in the OMi Online Help.
- **Policy Deployment for multiple policies.** You can now set a policy deployment condition for multiple policies within an aspect in one step. For details, see **Administration Guide > Monitoring > Management Templates & Aspects > Configuring Aspects** in the OMi Online Help.
- **Permissions for each Service Health Admin UI.** You can now set dedicated permissions for each Service Health administrative UI, defining more fine-grained user roles. Previously, these UIs could be accessed only by Super Admin users. For details on permissions, see **Administration Guide > Users > Users, Groups, and Roles** in the OMi Online Help.
- **Pre-selection of CIs, widgets or time range for KPI Over Time page and Auto-update.** The KPI Over Time dashboard and My Workspace component configurations are now persistent. Data

and widget configurations are maintained upon subsequent logins. For details, see **User Guide > Dashboards > KPI Over Time Dashboard** in the OMi Online Help.

- **Drilldown to SiteScope.** When SiteScope monitors are used to set the status of a configuration item (CI), you can drill down from the CI (or from a health indicator (HI) on the CI) to a SiteScope monitor that contributes to the HI's status. For details on configuring drilldown, see **Administration Guide > Monitoring > Policy Templates > Importing HP SiteScope Templates** in the OMi Online Help.

Event Browser

- **Launching Policy Editor from Event Browser for selected event.** You now have the possibility to edit policy template properties for a selected event by launching the Policy Editor directly from the Event Browser. For details, see **User Guide > Introduction > Event Browser** in the OMi Online Help.
- **Global Event Browser defaults.** OMi administrators can now customize the Event Browser and save the configuration as global defaults. The defaults are applied to any new Event Browser opened and are used by all new users. User-specific Event Browser configurations override the global defaults for existing Event Browsers only. For details, see **Administration Guide > Operations Console > Event Browser Options** in the OMi Online Help.

- **Improved filtering for closed events.** You can now select an event filter in the **Closed Events Browser Configuration** dialog box to further reduce the number of events in the selected range. The **Closed Events Browser** has been improved to show the selected range, the time the list of closed events was retrieved from the database, and a **Reconfigure** link, which opens the **Closed Events Browser Configuration** dialog box for you to further refine your selections. In addition, a purge message is displayed if the resulting list contains more than the configured maximum number of closed events.

For details, see **User Guide > Introduction > Event Browser > Viewing Closed Events** in the OMi Online Help.

- **Selection of multiple blocks of events.** You can now select multiple blocks of events. For details, see **User Guide > Introduction > Event Browser > Configuring the Event Browser**

Tool Enhancements

- **User account credentials for commands.** You can now specify the credentials of a user account to be used to execute a command or script. If both user name and password are specified, the operator does not need to enter any credentials when running the tool. For details, see **Administration Guide > Operations Console > Tools** in the OMi Online Help.
- **Archiving tool usable for auditing purposes.** You can now find out who has modified an event by checking the `modified by` attribute when there is a change in the user or group assignment.

Command-Line Interface

- **-nodeId <nodeId> option for opr-archive-events.** The opr-archive-events command-line interface has been enhanced with the -nodeId <nodeId> option, which enables you to delete the events related to a specific node. For details, see **User Guide > Introduction > Event Browser > Event Closing and Archiving Tools > opr-archive-events Command-Line Tool** in the OMi Online Help.
- **-id <evt_id> option for opr-close-events.** The opr-close-events command-line interface now accepts the option -id <evt_id>, which enables you to close one or more events by specifying the event IDs. For details, see **User Guide > Introduction > Event Browser > Event Closing and Archiving Tools > opr-close-events Command-Line Tool** in the OMi Online Help.
- **User names in event archive files.** The opr-archive-events command-line tool has been enhanced to add the name in addition to the ID of every user who modified the event to the event archive file. For details, see **User Guide > Introduction > Event Browser > Event Closing and Archiving Tools > opr-archive-events Command-Line Tool** in the OMi Online Help.
- **include_annotations HTTP parameter.** The URL query language of the Event Web Service has been extended by the new include_annotations HTTP parameter. This parameter enables you to specify whether annotations are included in the events when querying the Events Service (event_list). By default, annotations are not included. For details, see **Extensibility Guide > Automating Operator Functions and Event Change Detection > Event Web Service Query Language > HTTP Query Parameters** in the OMi Online Help.
- **opr-node command-line interface.** You can use the new opr-node command-line interface to manually add, modify, list or delete nodes in the RTSM. For details, see **Administration Guide > Monitoring > Command-Line Interfaces > opr-node Command-Line Interface** in the OMi Online Help.

BSM Connector

- **Support for installing HP Operations Agent 12 patches on top of HP BSM Connector**

Different versions of HP Operations Agent and BSM Connector are not always compatible. Note the following:

 - BSM Connector 10.01 is shipped with the MR version of HP Operations Agent 12 (OA 12) and also works with later minor versions of OA 12. For details, see the support matrix at <https://softwaresupport.hp.com/group/softwaresupport/search-result/-/facetsearch/document/KM323488>.
 - When you install BSM Connector 10.01, the MR version of OA 12 is automatically installed.
 - When you upgrade from BSM Connector 10.00 to BSM Connector 10.01, the MR version of OA 12 is automatically installed.
 - BSM Connector 10.00 shipped a pre-release version of Operations Agent 12, which is not

compatible with BSM Connector 10.01.

- BSM Connector 10.00 does not work with the MR version of OA 12.

For details on how to install or upgrade to BSM Connector 10.01, see the *HP BSM Connector Installation and Upgrade Guide*.

- **New policy type - Perl script policies**

New Perl script policies enable you to write your own Perl scripts and use them to collect various data from your systems. The Perl functionality that is available for scripting is limited only by the ootb Perl module in the HP Operations Agent Perl runtime, providing you with additional flexibility compared to the policies that only read different file types (such as logs or XML) or receive data through an API set or web service.

Perl policies support event, metric, and generic output data.

For more details, see the chapter "Perl Script Policies" in the *HP BSM Connector User Guide*.

- **New data type - generic output data**

New generic output data policies enable you to collect generic data from third-party systems. The data collected by using these policies is often forwarded to consumer applications, which do not require data models. Generic output policies require minimal configuration, without the additional overhead (such as defaults, rules, and similar) compared to creating event or metric policies.

The generic output data type is available for database, Perl, structured log files, REST web service, and XML policies.

For more details, see the chapter "Collecting Generic Output Data" in the *HP BSM Connector User Guide*.

- **Data forwarding**

In BSM Connector 10.01, you can configure Data Forwarding policies that forward the collected performance data directly to consumer applications through HTTP(S) POST requests to REST web service endpoints (targets) which accept data in XML or JSON formats.

You can forward the structured input data immediately after it is collected or forward metric data after it is processed by the policy. You can forward data to different targets or discard it, based on the rules you define.

For more details, see the chapter "Forwarding Data" in the *HP BSM Connector User Guide*.

- The BSM Connector metric format was updated. As a result, templates that have been created for connectors earlier than BSM Connector 10.01 will not work any longer with BSM Connector 10.01. Updated graph templates for BSM connectors provided by HP will be made available on HP Live Network soon after the release.

For the latest connectors, see the HP Live Network on <https://hpln.hp.com/group/operations-bridge>.

HP Operations Agent Compatibility

BSM Connector 10.01

- BSM Connector 10.01 is shipped with the MR version of HP Operations Agent 12 (OA 12) and also works with later minor versions of OA 12. For details, see the support matrix at <https://softwaresupport.hp.com/group/softwaresupport/search-result/>

[/facetsearch/document/KM323488](#).

- When you install BSM Connector 10.01, the MR version of OA 12 is automatically installed.
- When you upgrade from BSM Connector 10.00 to BSM Connector 10.01, the MR version of OA 12 is automatically installed.

BSM Connector 10.00

- BSM Connector 10.00 shipped a pre-release version of Operations Agent 12, which is not compatible with BSM Connector 10.01.
- BSM Connector does not work with the MR version of OA 12.

For details on how to install or upgrade to BSM Connector 10.01, see the *HP BSM Connector Installation and Upgrade Guide*.

Content Management

- OMi management packs. Management packs provide add-on infrastructure and application monitoring content for OMi. They provide end-to-end monitoring solutions to detect, monitor, troubleshoot, forecast and remediate issues in the IT domain. Additional to the Management Packs already available with OMi 10.00, the following management packs are included in OMi 10.01 and can be installed during the configuration:
 - HP OMi Management Pack for Microsoft SharePoint Server (1.0)
 - HP OMi Management Pack for Microsoft IIS (1.0)
 - HP OMi Management Pack for SAP (1.01)
 - HP OMi Management Pack for Infrastructure (1.12)

Check [HP Live Network](#) for later versions. For more information about the management packs, see the management pack documentation and release notes, available from [Self-Solve Knowledge Search](#).

Platform Support

With OMi 10.01, the following are newly supported:

- **Database - external on separate system**

| | |
|---------------------------------|------|
| MS SQL Server Developer Edition | 2014 |
|---------------------------------|------|

The complete OMi 10.01 Support Matrix is available at:

<http://support.openview.hp.com/selfsolve/document/KM323488>.

New Features in OMi 10.00

Installation News

- **Simplified product installation and configuration.** The installation and configuration wizards have been redesigned to make the installation and configuration tasks quicker and easier. The configuration wizard now offers an express configuration option, which installs the embedded PostgreSQL database and uses default values for all other configuration options.

The OMi product installation also installs Monitoring Automation and, optionally, User Engagement, which have been merged into OMi 10.00. You can also optionally install OMi Management Packs.

The installation documentation is now interactive: you can select how you want to install or upgrade and then only see the instructions for your selected scenario. For details, see the [OMi Installation and Upgrade Guide](#).

- **PostgreSQL database support.** OMi 10.00 offers true single-server deployment with the embedded PostgreSQL database for smaller environments.

Multi-server deployment with a separate PostgreSQL database for larger deployments is also supported. For details, see the [OMi Database Guide](#).

User Experience

- **Improved UI navigation.** The OMi 10.00 UIs have been adapted to use the web browser's navigation features such as back and forward navigation, bookmarks, history, refresh, full screen, and more. The operational UIs have been refreshed with a new look and feel. The OMi 10.00 menus have been restructured and simplified. You can now search for a specific menu item. Smart navigation remembers your selection. You can open UIs in multiple tabs and can therefore compare results in different UIs.

See also **User Guide > Introduction > Navigating and Using OMi** in the OMi Online Help.

- **Discover OMi.** An interactive exploration map that enables you to explore OMi step-by-step, following predefined paths and learning OMi features along the way. The map begins with an interactive tutorial. Each step offers built-in information as well as links to additional resources, for example, the related UI page, online help, or videos. Discover OMi tracks your progress so that you are aware of the areas you have already visited, shows fast path and advanced topics. It is easy to use, and offers built-in self-explanatory help.

See also **User Guide > My Workspace > Monitoring Your Environment With My Workspace > Predefined Pages** in the OMi Online Help, and **Workspaces > Operations Console > Discover OMi** in OMi 10.00.

- **User management: roles and permissions.** In OMi 10.00, you assign permissions to user roles, and then assign the roles to individual users or groups of users. This reduces the effort and complexity involved in assigning permissions directly to users or groups.

The Users, Groups, and Roles UI guides you through the user management workflow. See also **Administration Guide > Users > Users, Groups, and Roles** in the OMi online help.

- **My Workspace.** In OMi 10.00, MyBSM has been renamed My Workspace but still offers the same features as MyBSM. You see Service Health components showing RTSM views, the event browser, and APM data tightly integrated into the OMi console.

For details, see **User Guide > My Workspace** in the OMi online help.

Resilience

- **Health check.** In OMi deployments, it is important to check that the agents are running correctly, and that the server and agents can communicate with each other. This is especially important in agent installations that facilitate the integration of data from other management systems (for example, HP BSM Connector or HP SiteScope). If the agent on such a system fails, the event flow from the integration also stops.

By default, health checking (of the type Agent & Server) is enabled for all agents monitored by OMi and, also by default, agents send heartbeat events only to their primary manager. OMi can also check the health of HP BSM Connector and HP SiteScope connected servers.

For details, see **Administration Guide > Setup and Maintenance > Monitored Nodes > Configuring Health Checks** in the OMi Online Help.

- **Self-monitoring of OMi deployment.** OMi 10.00 introduces support for the OMi self-monitoring functionality. To ensure efficient operations, OMi keeps track of the health of its components and reports problems so that a corrective or preventive action can be taken.

The new OMi Health Status UI page contains the health status of OMi self-monitored components, displays a list of related events, and shows how the health status of the selected object affects the health of the related objects. The new OMi Server Self-Monitoring out-of-the-box management pack contains a management template and aspects for monitoring the availability, status, and performance of individual OMi components and processes.

For details, see **User Guide > Operations Console> OMi Health Status** and **Administration Guide > Management Packs> Management Pack for OMi Server Self-Monitoring** in the OMi Online Help.

- **Self-monitoring of agent.** OMi 10.00 provides helpful error messages and pro-active notifications for agent problems, integrated with the OMi health model.

Agent Management

- **Mass operations on remote agents.** The command-line interface opr-agt enables you to manage and configure one or more HP Operations Agents in parallel. The available options include status, start, restart, stop agents, get or set configuration variables on the agent, switch the primary manager, and deploy configuration.

For details, see **Administration Guide > Monitoring > Command-Line Interfaces > The opr-agt Command-Line Interface** in the OMi Online Help.

- **Deployment of agent patches and hotfixes.** In OMi 10.00, you can update the HP Operations

Agent that is currently installed on a monitored node to a hotfix, patch, or new base version. To install an agent package on the server, use the `opr-package-manager` command-line interface. To update the agents, use the Monitored Nodes UI.

For details, see **Administration Guide > Setup and Maintenance > Monitored Nodes > Connecting HP Operations Agents to OMi > Updating HP Operations Agent Installations** in the OMi online help.

- **Switch HP Operations Agent from OM to OMi.** In OMi 10.00, you can switch the HP Operations Agent management to the OMi server. This feature is useful for the environments with multiple servers managing the same HP Operations Agent (for example, with the HPOM management server and the OMi server). The switch is executed on the OMi server by running the `-switch_manager` option of the `opr-agt` command-line interface. After the agent management switch, all health-check and license-related information is transferred and held on the OMi server now acting as the agent's primary manager. In addition, the new primary manager performs the health checking for the agent and receives all new certificate requests.

You can also completely remove all policies from the HP Operations Agent using the `-deploy -clean` option of the `opr-agt` command-line tool. After the clean operation, other servers cannot access the agent and the policies deployed from other servers are no longer present on the agent.

For details, see **Administration Guide > Monitoring > Command-Line Interfaces > The opr-agt Command-Line Interface** and **Administration Guide > Setup and Maintenance > Monitored Nodes > Connecting HP Operations Agents to OMi > Connecting Existing HP Operations Agent Installations** in the OMi Online Help.

- **Configuring HTTPS communication.** The OMi Administration Guide and online help now include a section on configuring HTTPS communication if the server and agents are separated by a firewall.

For details, see **Administration Guide > Setup and Maintenance > Monitored Nodes > Configuring HTTPS Communication** in the OMi Online Help.

Policy Management

- **Enable adding policy templates from template groups.** In OMi 10.00, you can add policy templates from template groups, not just from flat lists. This enables you to search more quickly for the policy templates that you want to assign.

For details, see **Administration Guide > Monitoring > Management Templates & Aspects > Configuring Aspects** in the OMi Online Help.

- **Assignment update.** If newer versions of a management template, aspect, or policy template exist, you can update the related assignments and automatic assignment rules to contain the newer/latest version of the assigned item. In addition, you can get an overview of all assignments/automatic assignment rules that do not contain the latest version of the assigned item and may therefore require an update by choosing to display a list of items that require an update.

For details, see **Administration Guide > Monitoring > Assignments and Tuning** and **Administration Guide > Monitoring > Automatic Assignment Rules** in the OMi Online Help.

- **Bottom up policy update.** If a newer version of a policy template or an aspect exists, you can update the related management templates and aspects to the latest version.

For details, see **Administration Guide > Monitoring > Policy Templates** and **Administration Guide > Monitoring > Management Templates & Aspects** in the OMi Online Help.

- **MA support of customer instrumentation file tree as on HPOM.** OMi 10.00 introduces an additional possibility for configuration data import from HPOM on UNIX using the `-opccfgdwn` command. This command enables you to select the parts of configuration that you want to download and save the data to flat files in the file system. The downloaded configuration data can then be copied to the OMi server and uploaded by using the ConfigExchange command-line interface.

In addition, if `-opccfgdwn` is used as the download utility, the HPOM for UNIX 8.x-style instrumentation data is automatically converted into the format compatible with OMi at the upload time.

For details, see **Administration Guide > Monitoring > Migrating Configuration Data > Importing Configuration Data from HP Operations Manager** in the OMi Online Help.

- **MA instrumentation redeployment to multiple nodes.** In OMi 10.00, you can use the `opr-jobs` command-line interface to restart or list suspended and/or failed deployment jobs. Combined with the Create Suspended Deployment Jobs infrastructure setting, it is used for automating the execution of deployment jobs during maintenance time periods.

For details, see **Administration Guide > Monitoring > Deployment Jobs** and **Administration Guide > Monitoring > Command-Line Interfaces > The opr-jobs Command-Line Interface** in the OMi Online Help.

In OMi 10.00, you can choose between redeploying the full configuration or deploying only the configuration that was not yet transferred to the monitored nodes (performing delta deployment). For details, see **Administration Guide > Setup and Maintenance > Monitored Nodes** in the OMi Online help.

- **Additional features and usability enhancements.** OMi 10.00 introduces Monitoring Automation enhancements in order to simplify ongoing maintenance of policies, aspects and management templates and to facilitate evolution:
 - improved policy/assignment update workflow
 - instrumentation redeployment to multiple nodes
 - content pack Admin UI enhancements
 - performance and scalability improvements

External Instructions

- **External instructions.** OMi 10.00 introduces support for retrieving instructions generated by external instruction interfaces, such as knowledge bases, databases, web page, or other external sources.

The new External Instructions UI page is provided to create and activate an instruction retrieval Groovy script. This script calls the instruction interface and retrieves the instruction text for the specified event. The options for external instructions are set in the Policy Editor. Once the policy is deployed and the specified event containing or referencing external instructions occurs, the Groovy script is executed. The event-related instructions can be viewed in the Event Browser. The instruction output can include plain text with hyperlinks or HTML.

OMi delivers a predefined content pack containing a sample instruction retrieval script and a filter for external instruction interfaces.

For details, see **Administration Guide > Operations Console > External Instructions** and **Extensibility Guide > Groovy Scripts > Development and Deployment of Scripts > External Instruction Retrieval Scripts** in the OMi Online Help.

Operations Bridge

- **Enhanced scalability.** OMi now supports ten million Configuration Items (CIs) and two million CIs with status in the Run-time Service Model (RTSM). The RTSM is now based on the HP Universal CMDB 10.11.
- **Event statistics and return on investment.** A new dashboard has been added to the dashboard library to report on event count statistics in OMi and to map total events against correlated or suppressed events.

See also, for example, **User Guide > Introduction > Navigating and Using OMi** in the OMi Online Help.

- **KPI Over Time page and component.** The KPI Over Time dashboard covers multiple use cases by displaying the status of each configuration item, and each instance of the attached key performance indicators (KPIs). This enables you to view the statuses and status summaries of selected KPIs and CIs over time. The dashboard lets you choose from a number of widgets to survey historical KPI status data and the health of the monitored environment at a glance.

See also **Workspaces > Dashboards > KPI Over Time** in the OMi Online Help.

Content Management

- **OMi content.** Improvements to boost the breadth of our content offering and to accelerate content development.
 - Ongoing Management Pack extension
 - Ongoing Connector extension
 - Community expansion: massive extension of number of Management Packs (MPs) covering the most important metrics. Latest Management Pack releases are available for download from the [HP Live Network](#).
- **Content Manager with HTML-based import UI.** Content Pack developers can easily find created content.
- **OMi management packs.** Management packs provide add-on infrastructure and application monitoring content for OMi. They provide end-to-end monitoring solutions to detect, monitor, troubleshoot, forecast and remediate issues in the IT domain.

The following management packs are included in OMi 10.00 and can be installed during the configuration:

- HP OMi Management Pack for Apache Web Server (1.0)
- HP OMi Management Pack for Hadoop (1.1)
- HP OMi Management Pack for IBM WebSphere Application Server (1.0)
- HP OMi Management Pack for Infrastructure (1.1)
- HP OMi Management Pack for Microsoft Active Directory (1.0)
- HP OMi Management Pack for Microsoft Exchange Server (1.0)
- HP OMi Management Pack for Microsoft SQL Server (1.0)
- HP OMi Management Pack for Oracle Database (1.1)
- HP OMi Management Pack for Oracle WebLogic (1.01)
- HP OMi Management Pack for SAP (1.0)
- HP OMi Management Pack for SAP HANA (1.0)
- HP OMi Management Pack for SAP Sybase ASE (1.0)
- HP OMi Management Pack for Vertica (1.0)

Check [HP Live Network](#) for later versions. For more information about the management packs, see the management pack documentation and release notes, available from [Self-Solve Knowledge Search](#).

Platform Support

With OMi 10.00, the following are newly supported:

- **Management Server Platform**

| | |
|--------------------------|-----|
| Red Hat Enterprise Linux | 7.x |
|--------------------------|-----|

- **Client Browser**

| | |
|-------------|---------------------|
| Web Browser | Safari 7.x (Mac OS) |
|-------------|---------------------|

- **Database - external on separate system**

| | |
|------------|-----|
| PostgreSQL | 9.3 |
|------------|-----|

- **Database - embedded on OMi system**

| | |
|------------|-----|
| PostgreSQL | 9.3 |
|------------|-----|

The complete OMi 10.00 Support Matrix is available at:

<http://support.openview.hp.com/selfsolve/document/KM323488>.

BSM-APM 9.25 Integration

- **BSM-APM 9.25 capabilities.** Business Service Management (BSM) systems include Application Performance Management (APM) applications such as Real User Monitoring (RUM), Business Process Monitor (BPM), and Service Level Management (SLM). To integrate an APM 9.25 application with OMi 10.00, you need to integrate BSM 9.25 with OMi 10.00. This integration provides the following features:
 - APM health (KPI and HI status) and events are forwarded to OMi
 - OMi performance graphs show APM metrics stored on APM systems
 - User interface cross-launch: APM MyBSM user interface components can be directly integrated into OMi 10.00 workspaces to view detailed APM information
 - Topology synchronization between APM and OMi systems
 - Synchronization of downtime information

For more information, see the APM chapter of the [OMi Integrations Guide](#).

BSM Connector

- **BSM Connector.** A powerful technology to integrate 3rd party data into OMi is now open to also integrate into SHR and Operations Analytics. BSM Connector 10.00 now features reduced application footprint, easier maintenance, simplified installation and configuration, and improved performance.

For details on changes in the installation and configuration, see the HP BSM Connector Installation and Upgrade Guide.

- **New metric channel.** Metrics management is modified. Metrics are now stored on the BSM Connector system and are no longer automatically forwarded to OMi, which improves performance. The structure of the HP BSM Connector metric policies is changed in 10.00. They now also support the metric defaults and rules and it is easier to manage attributes.

Metrics can now also be collected from XML files.

- **New topology channel.** BSM Connector 10.00 supports collecting topology data from XML files and through the REST Web Service Listener. Therefore, various legacy collection methods are no longer in use. Discovery scripts are no longer part of the policies, the processing is moved to the OMi server and BSM Connector can now forward either complete topology data or only topology changes. Managing data from simple topology environments is simplified and synchronization packages are needed only for complex topologies.
- **Improved data collection from databases.** In BSM Connector 10.00 you can now use more complex SQL queries instead of a limited set of statements supported in BSM Connector 9.x.

Additionally, initial value statements and session variables are supported, giving you more flexibility when collecting event and metric data from databases.

- **Improved data collection from web services.** Collecting data from Web services is now easier, faster and more efficient due to the replacement of the protocol for accessing the Web services. Instead of using SOAP messages, BSM Connector 10.00 now uses the REST protocol, which offers more flexibility and security.
- **Improved data collection from log files.** In BSM Connector 10.00 the structured log file policies replace the log file policies from BSM Connector 9.2x. With structured log file policies you can more easily manage the event and metric data collected from log files because the extracted data is now structured by using the OM pattern-matching language, instead of regular expressions. The log file structure is defined so that the dynamic parts of the text-based events can be extracted from any log file row, assigned to variables, and then used as parameters to build the event description or to set other attributes.

Log files can now be collected only locally on the system.

For a detailed list of changes in the policies after the upgrade, see the section "Validate the Upgraded Policies" in the *HP BSM Connector Installation and Upgrade guide*. To display this section, select the option "Upgrade from HP BSM Connector 9.2x" on the initial page.

Documentation

The OMi 10.00 documentation has been enhanced as follows:

- **HTML5 online help.** The online help is now in HTML5 format for new look and feel and better search capabilities. The scope of the search can be limited to the Administration, User, Extensibility, and RTSM sections of the help.
- **Interactive installation and upgrade guide.** This guide enables you to specify the type of installation or upgrade that you want to perform and then view or print a customized guide, which includes only the requirements and tasks that apply to you.
You can select only the combinations of options that are supported. Therefore, as you make your selections, you may notice that some options disappear or become unavailable. For information, see the [OMi Installation and Upgrade Guide](#).
- **Videos.** OMi how-to videos are available on HP Videos. You can find them at [OMi Tutorials](#) on the HP Live Network.
- **Links to UIs.** Links from the online help to the UIs bridge the gap between the help and the UI, and provide quick access to OMi from the documentation.
- **Redesigned documentation set.** The number of documents is reduced to one OMi Administration Guide, an OMi User Guide, an OMi Extensibility Guide, and an OMi Concepts Guide. The RTSM documentation set has been updated without changing the scope of the documents.
- **Slideshows.** Intuitive slideshows to demonstrate product functionality have been added; for example, view the agent health check slides in the online help at:
Administration Guide > Setup and Maintenance > Monitored Nodes > Configuring Health Checks > Agent Only Checking
- **QR code.** Check out the QR code on the last page of each OMi document!

Changed Features in OMi 10.00

- **Groovy 2.2.1.** Groovy has been updated to version 2.2.1. The new Groovy features can now be used in your scripts. In some cases, scripts might need to be updated due to Groovy 2.2.1 syntax changes.

For details on debugging Groovy scripts, see **Extensibility Guide > Groovy Scripts > Best Practices** in the OMi Online help.

- **Event API changes.** The event API has changed for the type `com.hp.opr.api.scripting.Event`. The return types of its methods `getAssignedUserId()` and `getAssignedGroupId()` as well as the parameters of the methods `setAssignedUserId(userID)` and `setAssignedGroupId(groupId)` have changed from numerical values to the type `UUID`.

In Groovy scripts, you can use the keyword `def` to declare variables to be used with these methods. Usage of types `int` or `long` with these methods will lead to errors (`GroovyCastException`).

- **Event Filter: exists text operator.** The new exists operator displays any event that contains a custom attribute of the specified string. For example, **Sample exists** displays all events that contain the custom attribute `Sample`.
- **Export to PDF.** The Export to PDF button has been removed. This affects several UI components, including Downtime Management, Business Rules, KPIs, Context Menus, KPI and Health Indicator customizations per CI.
- **JMX console port change.** The URL to the JMX console for the application server has changed to `http://localhost:29000`. In OMi 10.01, all HTTP JMX consoles can only be accessed locally.

For details on the JMX console, see **Administration Guide > Additional Configuration > JMX Console** in the OMi Online Help.

For details on OMi ports, see **Administration Guide > Additional Configuration > Port Usage** in the OMi Online Help.

Notes and Limitations

Problems and limitations are identified with a change request (QCCR) number. For more information about open defects, visit <https://softwaresupport.hp.com>, or contact your HP Support representative directly.

OMi

Title: Hostname/IP of the DPS servers got mixed up with the monitored DNS server. (QCCR8D47695)

Description: If a windows agent node name cannot be resolved by DNS, it may happen that a monitored node is created which has the DNS server name as a node name.

Resolution Description: Update to patch 10.01 IP 7. In 10.01 IP7, the opr-activate-agent.bat script has been fixed to properly set the OPC_IP_ADDRESS and OPC_NODENAME even if the node can not be resolved by DNS.

Title: On Windows 2012, ovtomcatB stops after restarting either the ovc services or the BSM Connector host (QCCR8D35014)

Description: When either ovcservices or the BSM Connector host are restarted on Windows 2012, ovtomcatB stops running. The following error message appears upon ovcservices restart:

(ctrl-7) Error in the target component.

Workaround: Increase the timeout times, as follows:

1. Install BSM Connector.
2. Before running the bsmc-conf tool, run the following command:

```
ovconfchg -edit
```

The ovconfchgconfiguration file opens.

3. Add the following lines to the beginning of the ovconfchg file:

```
[ctrl.ovcd]
ACTION_TIMEOUT=120
KILL_TIMEOUT=30
MONITOR_CHECK_INTERVAL=2000
PROCESS_TIMEOUT=180
```

4. Restart the BSM Connector host.
 5. Run the bsmc-conf tool.
-

Title: Application server does not start on a new OMi 10 Installation using Windows authentication for SQL connection (QCCR8D37192)

Description: After setting up Windows Authentication with SQL Server and successfully running the configuration wizard, application server does not start.

Workaround:

1. Stop OMi
2. Backup <OMi Install Directory>\bin\start_as.bat
3. Replace <OMi Install Directory>\bin\start_as.bat with the version described below:
Copy the lines below into a file and call it <OMi Install Directory>\bin\start_as.bat
set NOPAUSE=true
call %TOPAZ_HOME%\bin\set_jboss_env.bat
cd /d "%TOPAZ_HOME%\bin"
call %JBASS_HOME%\bin\standalone.bat %1 -Dorg.owasp.esapi.resources=%TOPAZ_HOME%\AppServer\resources
4. Start OMi

Title: OMi10.01 localization: Multi Language User in **Administration > Setup and Maintenance > Infrastructure Settings** (QCCR8D36017)

Description: The RTSM section of the foundation settings in the Infrastructure Settings are localized to the locale of the server instead of the client locale.

Title: User is unable to draw graph for a CI when SYSTEMNAME is passed as IP address and INSTANCE is passed as Fully Qualified Domain Name (FQDN) of the host. (QCCR1A90579)

Description: The Graphing component can't draw a graph for a CI when SYSTEMNAME is passed as the IP address and INSTANCE is passed as the Fully Qualified Domain Name (FQDN) of the host.

Title: When a CI is monitored by multiple data sources, the user can't add metrics in Performance Graph Designer wizard to draw graphs. (QCCR1A177733)

Description: If you design a graph for a CI monitored by multiple data sources in Performance Graph Mapping, only one data source is listed. It is not possible to add metrics from all the data sources of the CI in Performance Graph Designer wizard. Multiple data source listing is not supported in the Performance Graph Designer wizard.

Workaround:

1. Go to **Applications > Operations Management > Performance Perspective**.
2. In the **View Explorer** pane, select the CI monitored by multiple data sources.
3. In the **Performance Pane**, select the Data Source.
4. Draw a graph and click the option **Configure** from the drop-down in the drawn graph. Metrics can now be added for the graphs.

Title: 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.

Title: It is not possible to install the Data Flow Probe on Red Hat Enterprise Linux 7 (QCCR1H97547)

Description: It is not possible to install the Data Flow Probe on Red Hat Enterprise Linux 7.

Workaround: Before installing the Data Flow Probe (DFP), create a symbolic link from libsas12.so.3.0.0 to libsas12.so.2, so the PostgreSQL 9.2.2 of the DFP will find the libsas12 library.

Example:

```
cd /usr/lib64/
```

```
ln -s ./libsas12.so.3.0.0 ./libsas12.so.2
```

This will create the symbolic link.

Title: Upgrade to single server environment: Dashboard pages are missing (QCCR8D36140)

Description: Dashboard pages are missing because 9.2x UI components that are built in are removed during the upgrade. The new OMi components are uploaded later in the process. Because of a dependency of the dashboard pages to one of those deleted OMi components an error occurs.

Workaround:

1. Go to <OMi_HOME>/HPBSM/conf/uimashup/import/errors on Microsoft Windows or to <OMi_HOME>/conf/uimashup/import/errors on linux.
 2. Copy all files from Components, Events, Pages to ../toload/Components, Events, Pages
 3. Restart OMi or call the JMX method on your gateway server at <http://localhost:29000>, search for the UIMDataLoader, execute start() method)
-

Title: APM OMi 10 integration: CI Change for Drilldown: Application Health Business Summary results in an endless loop of reloads (QCCR8D38939)

Description: After setting up the drilldown correctly, the **Drilldown: Application Health Summary** is reloading endlessly.

Workaround: A Hotfix is available through HP Support.

Title: OMi does not start anymore after running Smart Card Wizard. (QCCR8D38929)

Description: After running the Smart Card Wizard to setup certificate based authentication and restarting OMi in order to activate it, OMi will not start anymore. It aborts during the initialization phase. The problem is that the Apache Web Server does not start anymore because httpd-ssl.conf contains a new line to set the "Secure"-Flag for cookies. As mod_headers is not activated in the httpd.conf file, Apache aborts with a syntax error.

Workaround:

1. Open HPBSM/WebServer/conf/httpd.conf in editor.
2. Locate the line: #LoadModule headers_module modules/mod_headers.so.
3. Remove the # at the beginning of the line in order to uncomment the entry.
4. Save the modification.

Title: The `jdbc.properties` from `odb/conf` is not backed up before the de-installation of OMi 10.00 (QCCR8D38915)

Description: After updating to OMi 10.01, OMi does not start. The reason is that the `jdbc.properties` from `odb/conf` are not backed up before the de-installation of OMi 10.00.

Workaround:

1. Workaround 1: before having run the script `updateOMi10to1001.bat/sh`

Add the following line to `<DVDRoot>\Update\preUpdateBackup.txt`:

`odb/conf/jdbc.properties`

2. Workaround 2: if the uninstallation of OMi 10.00 has already been completed (disregard if workaround number 1 was used)

Before the first startup edit the file `%TOPAZ_HOME%/odb/conf/jdbc.properties` and change the line starting with `cmdb.url` according to the DB guide. On all servers, open the directory `<OMi_HOME>\odb\conf`. Locate the `jdbc.properties` file. If your server is running Linux OS, replace all the double back slashes with single slashes.

- a. Find the line starting with `cmdb.url`.

- b. Replace this with the following line:

```
cmdb.url = jdbc:mercury:oracle:TNSNamesFile=<OMi_
HOME>\\conf\\omitnsnames.ora;TNSServerName=<SERVICE NAME>
```

where `<SERVICE NAME>` is the entry in `omi-tnsnames.ora`, which is equivalent to the RAC service name.

- c. If the file does not exist, create an empty `jdbc.properties` file under the above folder and add the following entry:

```
Oracle = ddoracle
cmdb.url = jdbc:mercury:oracle:TNSNamesFile=<OMi_
HOME>\\conf\\omitnsnames.ora;TNSServerName=<SERVICE NAME>
```

where `<SERVICE NAME>` is the entry in `omi-tnsnames.ora`, equivalent to the RAC service name.

Title: Rules containing **Priority** as a filter are not applied (QCCR8D931)

Description: After creating a new SBEC Repetition Rule with Filter `Priority = None` and sending some events that match this filter, a `JdbcSQLException (Column "a.priority" not found)` is logged to `opr-backend.log`

Workaround: When using an simple or advanced filter with priorities, the following steps need to be executed:

- Simple Filter
 - Open the filter for editing.
 - Select all priority options.
 - Save the filter.
- Advanced Filter

- Open the filter for editing.
- Remove the priority property.
- Save the filter.

Title: The ConnectedServer operating system is not migrated during upgrade or migration (QCCR8D35820)

Description: ConnectedServers do not have an operating system associated with them anymore after upgrading from BSM 9.2x to OMi 10.00 or OMi 10.01, even when it was defined before the upgrade or migration.

Workaround: When manually activating the migrated ConnectedServers, also manually select the correct operation system setting.

Title: Information is not correctly sent to the User Engagement modules for users that are set up with special characters in their user names (QCCR8D22218)

Description: After BSM users are created with login name and user name containing special characters in one of the supported locales, and after they then log in to BSM and access a User Engagement page (for example, the User Engagement Dashboard), the participant is automatically created in the User Engagement module. When the same users complete an activity to receive an achievement, no achievements are received for these users.

Workaround: Do not allow special characters for user names in BSM and in LDAP. If special characters are allowed in user names and LDAP, the User Engagement module cannot be used.

Title: : Achievements in OMi User Engagement are not triggered through event processing (QCCR8D34746)

Description: It can happen that User Engagement will not consider all achievements, especially when these achievements are associated with SBEC, TBEC or EPI. For example, users do not receive achievement such as **Cool Stream Correlator**.

Workaround: Disable and enable User Engagement participation of the affected user.

Title: When OMi is configured to authenticate with CAC, CLI tools without the -cs option are not run. (QCCR8D37102)

Description: When OMi is configured to use CAC authentication, the CLI tools under hpbsm/opr/bin do not directly prompt users to enter the password for the smartcard connected to the system. Instead, users have to specify that a smartcard authentication is to be run, using the option -sc or -smartcard). Users attempting to run a tool without the -smartcard option automatically receive an error message.

Workaround: Use the option -sc or -smartcard when running the CLI tools under hpbsm/opr/bin.

Title: It is not supported to create separate local OMi users who have the same login name as LDAP users, who will log in to OMi (QCCR8D36157)

Description: In case a local OMi user exists with the same login name as an LDAP user, the login with the LDAP user succeeds. However, there is no extra user created for the LDAP user. Instead the local user is used in both cases. The authentication of the user is performed on the LDAP server in case the LDAP user performs the login.

Workaround: When configuring LDAP configurations in OMi ensure that no local OMi users exist that have the same log in name as the UUID attribute of the LDAP users that are supposed to login to OMi.

Management Packs

Title: SAP System CI duplication when discovered with OMi Management Pack for SAP (QCCR8D34125)

Description: SAP System CI fails to reconcile for SAP ABAP and SAP J2EE domain, with discovery from OMi10.01 Management pack for SAP. (QCCR8D34125)

Workaround: : Enable the enrichment rule **SapSystemReconciliation**. Follow these steps:

- Go to Administration > RTSM Administration > Modeling > Enrichment manager.
- Go to SAP folder under Root > Operations Management
- Select enrichment rule **SapSystemReconciliation** and click on Properties
- Go to **Rule General Attributes**, select the check box **Rule is Active** and save the rule

See the individual OMi10.01 Management pack release notes for more details on a particular OMi10.01 Management Pack, available on <https://softwaresupport.hp.com>.

BSM Connector

Title: Discovery: CI's relationships are not restored by REST WS Topology policy. (QCCR8D38704)

Description: Relationships of CIs cannot be restored if they were deleted using the "Detect Deltas" option of the REST WS Topology policy.

Workaround: Use the BSMC command line tool `topology.sh` or `topology.exe` to publish the complete topology repository of a specific policy to the server.

Title: BSM Connector **Standalone installation only:** Linux: Preparation for standalone configuration fails (QCCR8D36134)

Description: When configuring BSM Connector for **standalone usage** on Red Hat Enterprise Linux 7, the delivered script 'prep_bsmc_sa.sh' fails. This is caused by the fact that the pre-built openssl binary cannot run since RHEL 7 does not include required dependent libraries.

Workaround: Install the required dependent libraries using a package manager of your choice. The libraries are available on the **Red Hat Enterprise Linux 7** distribution DVD or the Red Hat customer web site. The required libraries can then be installed using the command

```
yum install libstdc++*i686*
```

After the installation of the dependent packages has finished, `prep_bsmc_sa.sh` can be successfully executed.

RTSM

Title: Discovery Control Panel: No (error) message in case of missing license - instead Integration Studio is shown (QCCR1H98669)

Description: If there is no license for the Discovery Control Panel, the Integration Studio is shown.

Documentation Updates

The first page of this document identifies the:

- Version number for the software.
- Software release date.

To check for recent updates or to verify that you are using the most recent edition, visit the [HP Software Product Manuals](#) web site.

To retrieve a document, select the:

1. **Product** name.
2. **Version** list.
3. **Operating System**.
4. Preferred **Language**.
5. Document title.
6. Click **Open** or **Download**.

You must have Adobe® Reader installed to view files in PDF format (*.pdf). To download Adobe Reader, go to the [Adobe](#) web site.

Documentation Errata

OMi

Title: Management Pack help is not available in the online help. (QCCR8D38845)

Description: Sub help systems cause compatibility problems in OMi online help.

Workarounds:

1. Access the Management Pack help on the Software Support Portal
<https://softwaresupport.hp.com/group/softwaresupport/search-result/-/facetsearch/document/KM00977566>
2. Access the Management Pack online help by launching con*.html directly on the OMi server:
<OMi_HOME>/AppServer/webapps/site.war/amdocs/eng/doc_lib/Subsystems/con*/
The folder names for the individual OMi Management Packs are:

- HP OMi Management Pack for Infrastructure con002
- HP OMi Management Pack for Oracle Database con001
- HP OMi Management Pack for Microsoft SQL Server con005
- HP OMi Management Pack for Microsoft Active Directory con010
- HP OMi Management Pack for Microsoft Exchange Server con012
- HP OMi Management Pack for IBM WebSphere Application Server con013
- HP OMi Management Pack for Oracle WebLogic con009
- HP OMi Management Pack for SAP con007
- HP OMi Management Pack for Hadoop con003
- HP OMi Management Pack for SAP HANA con008
- HP OMi Management Pack for Vertica con004
- HP OMi Management Pack for Apache Web Server con016
- HP OMi Management Pack for SAP Sybase ASE con015
- HP OMi Management Pack for Microsoft SharePoint Server con014
- HP OMi Management Pack for Microsoft IIS Server con017

Example:

You want to launch the help for the Management Pack HP OMi Management Pack for Infrastructure . From the list above you can see that the Management Pack for Infrastructure is called con002. You launch the online help on the OMi server by typing into a browser

```
<OMi_HOME>/AppServer/webapps/site.war/amdocs/eng/doc_
lib/Subsystems/con002/con002.htm
```

3. Access the Management Pack online help by typing the OMi gateway server url into a browser. Using the example from above, if you want to see help on the Management Pack for Infrastructure, you would type the following:

```
http://<OMI-GW-Server>/topaz/amdocs/eng/doc_lib/Subsystems/con002/con002.htm
```

or if you are using a secure setup:

```
https://<OMI-GW-Server>/topaz/amdocs/eng/doc_lib/Subsystems/con002/con002.htm
```

Title: The Help menu in the RTSM Administration UI pages contains links to UCMDB help pages.

Description: The Help menu in the RTSM Administration pages contains four links to UCMDB help pages: UCMDB Help, Universal Discovery and Integrations Content Help, UCMDB Best practices, and UCMDB Class Model.

Clicking on these links opens a dialog window with links that do not work.

Workaround: To display the RTSM help, click the OMi Help button and select **General Help**. In the OMi Help table of contents, select **RTSM guides**.

Localization

HP supplies Operations Manager i 10.01 localized software in these languages:

- English en
- French fr
- German de
- Japanese ja
- Korean ko
- Russian ru
- Simplified Chinese zh_CN
- Spanish es

Send Documentation Feedback

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

Feedback on Release Notes (Operations Manager i 10.01)

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 ovdoc-asm@hp.com.

We appreciate your feedback!



Go OMi!