

HPE SiteScope

Software Version: 11.40

Integration with Application Performance Management (APM) and Operations Manager i (OMi)

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Chapter 1: Overview

This guide describes benefits, integration prerequisites, details, features, and troubleshooting for the integration of SiteScope with Application Performance Management (APM) and Operations Manager i (OMi).

As part of APM simplification and footprint reduction implemented in the APM 9.40 release, embedded OMi is removed from APM. The following changes are the result of the APM-OMi separation:

- Event management module is no longer available in APM. This means that SiteScope cannot send events to APM.
- APM and OMi have two separate Run-time Service Models (RTSMs). SiteScope cannot connect simultaneously to both the RTSMs to report topology.

The following scenarios depict the integrations that are supported between SiteScope, APM and OMi and are detailed in the topics in this guide.

- ["SiteScope Integration with HPE Operations Manager i \(OMi\)" on page 7](#)
- ["SiteScope Integration with Application Performance Management \(APM\)" on page 15](#)
- ["SiteScope Integration with APM and OMi " on page 22](#)
- ["SiteScope Integration with APM and OMi with Event-Alert Configuration" on page 24](#)

Integration Matrix

Refer to the integration matrix on the Aztec portal for supported versions of APM and OMi:

https://softwaresupport.hpe.com/group/softwaresupport/search-result/-/facetsearch/document/KM01663677?lang=en&cc=us&hpappid=202392_SSO_PRO_HPE#S

Refer to the SUMA matrix for the supported OA versions for SiteScope integration with OMi using Operations Agent:

<https://softwaresupport.hpe.com/group/softwaresupport/search-result/-/facetsearch/document/KM323488>

Chapter 2: SiteScope Integration with HPE Operations Manager i (OMi)

In this integration scenario SiteScope sends topology and events to OMi. The features available with this integration scenario are:

- Event management for SiteScope alerts and events
- Event-driven Service Health
- Topology-Based Event Correlation (TBEC)
- Performance Dashboard (PD)
- Monitoring Automation (MA)

This section contains details of the benefits, prerequisites, best practices, and troubleshooting for integrating SiteScope with OMi. This section covers the following topics:

- ["Integration Benefits" on the next page](#)
- ["Integration Prerequisites" on page 9](#)
- ["Integration Options and Details" on page 10](#)
- ["Recommendations" on page 11](#)
- ["Upgrade SiteScope-BSM 9.2x Integration to SiteScope-OMi 10.x Integration " on page 12](#)
- ["Troubleshooting" on page 14](#)

Integration Benefits

- **Events:** Ability to configure and generate events directly from SiteScope, reuse existing alerts as events, and manage and use SiteScope events in OMi. For details, see [Integrating SiteScope with HPE Operations Manager Products](#). You can check the [HPE Software Integrations site](#) for the latest version of this guide.
- **Runtime Service Model (RTSM):** SiteScope can discover and report topology on monitored systems to OMi's RTSM. You can then manage and work with these discovered configuration items (CIs) in views that provide a subset of the components in which your business functions. For details, see [Integrate SiteScope Data with APM's Configuration Items](#).
- **Service Health:** Health indicators assigned to SiteScope monitor data provide a detailed view of the health of a configuration item (CI) when SiteScope reports events. For details on how to configure indicators in monitors, see the [SiteScope Help](#).
- **Reports:** Ability to create and view reports of SiteScope monitor metrics in OMi. For details on [Performance Dashboard in Operations Management](#), see the [OMi User Guide](#).
- **Downtime:** Centralized management enables configuring downtime for your IT infrastructure from one place in OMi. For details, see [CI Downtime](#).
- **Monitoring Automation (MA):** Automates the configuration of monitoring for infrastructure and composite applications.

Integration Prerequisites

The following are required to enable the integration.

SiteScope Integration	Prerequisites	Reports
Operations Manager i (OMi)	HPE Operations Agent must be installed on the SiteScope server.	<ul style="list-style-type: none">• Events• Topology
SiteScope Integration Packages*	Omi_package.zip for OMi versions 10.60 and earlier.	
	OMi10.62_package.zip for OMi version 10.62.	Docker Topology

* The SiteScope integration packages are present in HPE_SiteScope_11.40_Integration_Packages.zip available with the SiteScope 11.40 installation bits. The instructions to install the integration packages are available in the Read Me file available with the packages.

Integration Options and Details

The metrics and event data collected by SiteScope monitors is used in OMi. Choose the integration option according to the type of data to be collected, and the monitoring environment that exists in your organization.

Application	What to use	SiteScope Integration to use
Service Health	Events (metrics status change) (required)	HPE Operations Manager
	Topology (required)	APM
Event Management	Events (required) Status change: <ul style="list-style-type: none"> • Use if you want to manage raw (low-level) events. • These events affect HIs and KPIs. Alerts: <ul style="list-style-type: none"> • Use if you want to manage alerts as events. • By default, these events do not affect HIs and KPIs. 	HPE Operations Manager
	Topology (recommended) Recommended for: <ul style="list-style-type: none"> • Drill downs from events to views and related CIs. • Topology-Based Event Correlation (TBEC) rules. 	APM
Performance Graphing	Metrics (required)	HPE Operations Manager
	Topology (required)	APM

Recommendations

The following are recommendations for integrating SiteScope with OMi or Operations Manager (OM):

- It is recommended to integrate SiteScope directly with OMi rather than with OM.
- If your deployment prevents you from integrating directly with OMi, or you want to get event preprocessing in OM before forwarding SiteScope events to OMi, you should integrate SiteScope with OM.


Note: Even if you are integrating SiteScope with OM, it is recommended to integrate SiteScope directly with OMi and to configure SiteScope to report topology to OMi. Reporting topology provides topology based event correlation rules and drill down from events to views and related CIs.

Upgrade SiteScope-BSM 9.2x Integration to SiteScope-OMi 10.x Integration


Prerequisites:

- Installation of OMi version 10.x on a new server.
- SiteScope installation with SiteScope-BSM 9.2x and SiteScope-OM integrations.
- SiteScope integration packages. See "[Integration Prerequisites](#)" on page 9 for SiteScope integration with OMi for details of the packages that are required.

Steps to Upgrade the Integration

1. Log on to SiteScope with your credentials.
2. Go to **Preferences > Integration Preferences**.
3. Click the edit icon . In the Integration Preference Type page, select the existing APM Integration and click **Edit Integration**.
4. Click the **APM Preferences Available Operations** tab and click **Reset**.
5. Click **OK**. The APM integration is deleted.
6. On the OMi server, go to the Connected Servers tab and add the SiteScope server details.

Note: On the SiteScope server, verify if the new APM integration is updated with the OMi host details.

7. Click the edit icon . Perform one of the following:
 - In the Integration Preferences page, select the current OMi integration and delete it. Create a new OMi integration pointing to the new OMi server. See Appendix A for more information.
 - Redirect the current integration to the new OMi installation. See Appendix B for more information.
8. In the new/updated integration select the following check boxes under HPE Operations Manager Integration Main Settings page:
 - Enable sending events
 - Connect directly to APM
 - Prefer events over metrics in APM Service Health (global preference)

Note: The other check boxes and configurations are not relevant to this scenario.

9. Perform this step for all the existing monitors in SiteScope.
 - a. From the monitors context, go to **Monitor > Properties > HPE Integration Settings**
 - b. Select the option **Disable reporting metrics to APM** from the drop-down box under the **APM Integration Data and Topology Settings** tab.

- c. Click the **HPE Operations Manager Integration Settings** tab and select the **Send events** check box.
- d. Click the **APM Service Health Preferences** and set the **APM Service Health affected by:** to events.
- e. Click **Save**.

Note: In case you need to adjust a large number of monitors, you can perform Step 9 using Global Search and Replace (GSAR). Also, if you have created these monitors from templates, you can adjust the templates and publish changes to the monitors. For more information on GSAR and publishing templates, see the Using SiteScope Guide.

Post-Upgrade Steps

Perform the following steps after you upgrade the integration:

- Deploy the SiteScope integration packages to view the Docker topology in APM. See "[Integration Prerequisites](#)" on page 9 for details of the packages that are required.
- Restart SiteScope after you have deployed the package.

Troubleshooting

For troubleshooting information specific to this scenario, refer to the following.

- For topology reporting issues, see ["Topology Issues" on page 28](#).
- For Operations Manager Event Integration issues, see ["Operations Manager Event Integration Issues" on page 31](#).
- For CI downtime issues, see ["CI Downtime Issues" on page 39](#).

Chapter 3: SiteScope Integration with Application Performance Management (APM)

In this integration scenario SiteScope sends topology and metrics to APM. The features available with this integration are:

- Metrics driven Service Health and Application Health
- Service Level Management
- System Availability Management (SAM) reports
- System Availability Management administration (including HI mapping)

This section includes:

- ["Integration Benefits" on the next page](#)
- ["Integration Prerequisites" on page 17](#)
- ["Integration Options and Details " on page 18](#)
- ["Upgrade SiteScope-BSM 9.2x Integration to SiteScope-APM 9.40 Integration" on page 19](#)
- ["Troubleshooting" on page 21](#)

Integration Benefits

- **Runtime Service Model (RTSM):** SiteScope can discover and report topology on monitored systems to APM's RTSM. You can then manage and work with these discovered configuration items (CIs) in views that provide a subset of the components in which your business functions. For details, see [Integrate SiteScope Data with APM's Configuration Items](#).
- **Service Health and Service Level Management:** Health indicators assigned to SiteScope monitor data provide a detailed view of the health of a configuration item (CI) when SiteScope reports metrics.
 - For details on managing indicators in the centralized Indicator Assignments repository in SAM Administration, see [Indicator Assignment Settings in the APM Application Administration Guide in the APM Help](#).
 - For details on mapping metrics to indicators in SiteScope, see [Assigning SiteScope Metrics to Indicators](#).
- **System Availability Management administration:** Enables viewing and managing multiple SiteScope instances from within System Availability Management administration. For details, see [SAM Administration Overview in the APM Application Administration Guide in the APM Help](#).
- **Reports:** Ability to create and view reports of SiteScope monitor metrics in System Availability Management. For details on System Availability Management reports, see [System Availability Management Reports in the APM User Guide in the APM Help](#).
- **Service Health Analyzer (SHA):** SHA analyzes metrics, calculates the dynamic baseline to detect if each metric behaves normally or not, and automatically correlates related metrics to a single meaningful event.
- **Downtime:** Centralized management enables configuring downtime for your IT infrastructure from one place in APM. For details, see [CI Downtime](#).

Integration Prerequisites

The following are required to enable the integration.

SiteScope Integration	Prerequisites	Reports
APM	<p>System Availability Management license. For details, see SAM Administration Overview in the APM Application Administration Guide in the APM Help.</p> <p>Note: If you are using the SiteScope points-based license, you must upgrade to the SAM points license. If you are using the SiteScope OSi-based license, the Premium and Ultimate edition include the SAM license.</p>	<ul style="list-style-type: none"> • Metrics • Topology
SiteScope Integration Packages*	BSM9.2x_package.zip for BSM 9.26 versions or earlier	
	APM9.30_package.zip for APM 9.30	
	APM9.40_package.zip for APM 9.40	Docker topology
<p>* The SiteScope integration packages are present in HPE_SiteScope_11.40_Integration_Packages.zip available along with the SiteScope 11.40 installation bits. The instructions to install the integration packages are available in the Read Me file available with the packages.</p>		

Integration Options and Details

The metrics collected by SiteScope monitors are used in APM applications. Choose the integration option according to the type of data to be collected, and the monitoring environment that exists in your organization.

Application	What to Use	SiteScope Integration to Use
Service Health	Metrics (required) <ul style="list-style-type: none"> • Displays metrics values in Service Health tooltips. • You can create customized calculation rules. For details, see Business Rule Repository Overview in the APM Application Administration Guide in the APM Help. 	APM
	Topology (required)	APM
Service Level Management	Metrics (required)	APM
	Topology (required)	APM
System Availability Management Reports	Metrics (required)	APM

Upgrade SiteScope-BSM 9.2x Integration to SiteScope-APM 9.40 Integration


Prerequisites

- Installation of APM version 9.40 on a new server.
- SiteScope installation with SiteScope-BSM 9.2x integration.
- SiteScope integration packages. See "[Integration Prerequisites](#)" on [page 17](#) for SiteScope integration with OMi for details of the packages that are required.

Steps to Upgrade the Integration

1. Log on to SiteScope with your credentials.
2. Perform this step for all the existing monitors in SiteScope.
 - a. From the monitors context, select a monitor and click **Properties > HPE Integration Settings**
 - b. Click the **HPE Operations Manager Integration Settings** tab and clear the **Send events** check box.
 - c. Click the **APM Service Health Preferences** tab and set the **APM Service Health affected by:** to **Metrics**.
 - d. Click **Save**.

Note: In case you need to adjust a large number of monitors, you can perform Step 2 using Global Search and Replace (GSAR). Also, if you have created these monitors from templates, you can adjust the templates and publish changes to the monitors. For more information on GSAR and publishing templates, see the Using SiteScope Guide.

3. Go to **Preferences > Integration Preferences**.
4. Select the existing OMi Integration and click the delete icon . The OMi integration is deleted.
5. Select the APM Integration and redirect the integration to the system where APM 9.40 is installed. Enter the IP address and credentials of the system where APM 9.40 is installed and re-synchronize the configuration.

SiteScope Post-upgrade Procedure

After performing a staging upgrade, you need to configure SiteScope to communicate with the new APM Gateway Servers.

Integrate SiteScope and APM 9.40

To integrate SiteScope and APM 9.40, after upgrading to APM 9.40, perform the following procedure.

On the APM 9.40 server:

1. Access the UCMDB JMX server (<https://<full APM data processing server name>:21212/jmxconsole/HtmlAdaptor?action=inspectMBean&name=UCMDB:service=Packaging Services>).

2. From the Operations index, click `undeployPackages`.
3. In the `packageNames Value` field, type `sitescope.zip`.
4. Click **Invoke**.
5. From the Operations index, click `deployPackages`.
6. In the `packageNames Value` field, type `sitescope.zip`.
7. Click **Invoke**.

On the SiteScope server:

8. Stop SiteScope.
9. Copy the jar files and `SiSAPM930PostUpgradeUtil` files from `.../BSM/9.40/content/HPE_APM_9.40_SiS_Upgrade` and save them in `<SiteScope root dir>/bin`.
10. For SiteScope installed on Windows, run the `SiSAPM930PostUpgradeUtil.bat` file.
For SiteScope installed on Linux, run the `SiSAPM930PostUpgradeUtil.sh` file.

Change the Gateway Server to which SiteScope sends data

After performing a APM staging upgrade, you need to configure SiteScope to communicate with the new APM Gateway Servers. To do so, perform one of the following:

- In SiteScope's APM Integration Preferences, enter the new Gateway Server name or IP address in the Application Performance Management machine name/IP address box. For user interface details, see APM Integration Preferences Dialog Box in the Using SiteScope Guide in the SiteScope Help.
- In SAM Administration, update the SiteScope settings with the new Gateway Server name in Distributed Settings. For user interface details, see New/Edit SiteScope Page in the APM Application Administration Guide in the APM Help.

Note: This can only be used for changing the Gateway Server for a SiteScope that is already registered with a given APM installation. It cannot be used to add a new SiteScope, or to connect a SiteScope to a different APM system.

Post-Upgrade Steps

Perform the following steps after you upgrade the integration:

- Deploy the SiteScope integration packages to view the Docker topology in APM. See "[Integration Prerequisites](#)" on [page 17](#) for details of the packages that are required.
- Restart SiteScope after you have deployed the package.

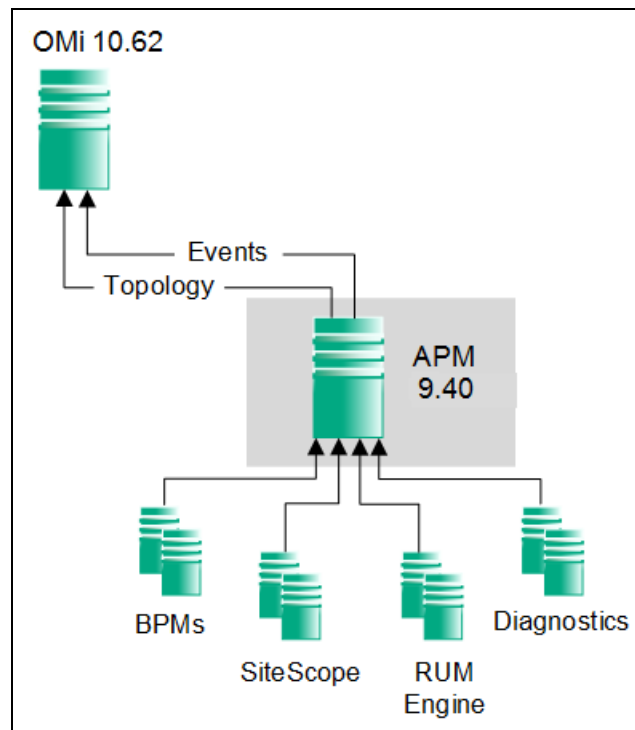
Troubleshooting

For troubleshooting information specific to this scenario, refer to the following.

- For topology reporting issues, see ["Topology Issues" on page 28](#).
- For APM Metrics integration issues, see ["APM Metrics Integration Issues" on page 37](#).
- For CI downtime issues, see ["CI Downtime Issues" on page 39](#).

Chapter 4: SiteScope Integration with APM and OMi

In this type of integration, SiteScope sends topology and metrics to APM. APM syncs topology and CI and HI statuses with OMi.



For more information on SiteScope integration with APM, see ["SiteScope Integration with Application Performance Management \(APM\)"](#) on page 15.

For more information on SiteScope integration with OMi, see the OMi Integrations Guide.

The main features of this integration include:

- Metrics-driven Service Health (in APM)
- Event-driven Service Health (in OMi) through topology sync (except for SiteScope groups and monitors) and HI status sync
- Service Level Management (in APM)
- System Availability Management (SAM) reports (in APM)
- System Availability Management administration (including HI mapping) (in APM)

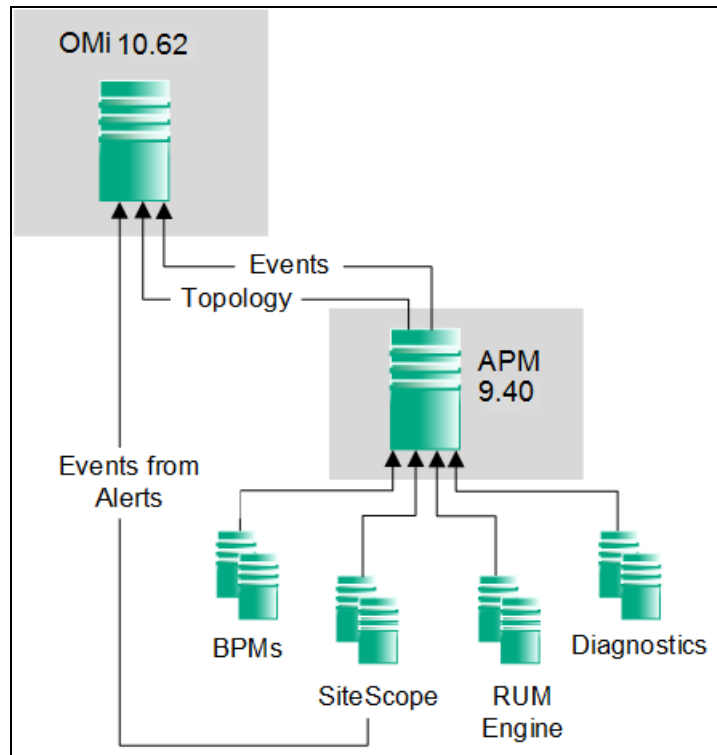
Upgrade the Integration

- See ["Integration Prerequisites" on page 9](#) and ["Integration Prerequisites" on page 17](#) for the SiteScope Integration packages that are required.

- To upgrade the integration for APM 9.40, follow the upgrade steps in the topic "[Upgrade SiteScope-BSM 9.2x Integration to SiteScope-APM 9.40 Integration](#)" on page 19.

Chapter 5: SiteScope Integration with APM and OMi with Event-Alert Configuration

In this type of integration, SiteScope is configured to send topology and metrics to APM and events to OMi. This scenario enables working with alerts in the event console of OMi.



Note: This integration does NOT support metrics status change events.

Some possible workarounds for this limitation include:

- Connecting some of your SiteScope instances directly to OMi.(See chapter 2)
- If your SiteScope instances are configured to report events and metrics to BSM 9.2x, consider splitting each of them into two instances: one connected to an APM system and reporting metrics (see chapter 3) and another to OMi, reporting events (see chapter 2). For more information on how to export SiteScope configuration, see the SiteScope Deployment Guide.
- Using APM CI status alerts to send events to OMi.

This scenario is equivalent to the SiteScope integration with APM and OMi in terms of integration options and details. However, it has additional benefits because of the direct channel of sending alert events to OMi.

For more information, see [APM and OMi integration](#).

Upgrade from BSM 9.2x to APM 9.40

Prerequisites

- Installation of APM version 9.40 on a new server.
- Installation of OMi 10.62 on a new server.
- SiteScope integration packages. See "[Integration Prerequisites](#)" on page 9 and "[Integration Prerequisites](#)" on page 17 for SiteScope Integration packages that are required.

Steps to Upgrade the Integration

1. Log on to SiteScope.
2. Select **Preferences > Integration Preferences**. The list of integrations that are configured are displayed on the right.
3. Select the APM integration and redirect the Application Performance Management machine and credentials to point to the new APM 9.40 machine. For user interface details, see APM Integration Preferences Dialog Box in the Using SiteScope Guide in the SiteScope Help.
4. Delete the current OMi integration and create a new one (HPE Operations Manager Integration), pointing to the new OMi server or redirect the current one to the new OMi server. For details on creating, deleting or redirecting the integration, see Appendix A and B.
5. In this new/updated integration make sure that the you have the following check boxes enabled/disabled as follows:
 - Enable sending events - Enabled
 - Connect directly to APM - Enabled
 - Prefer events over metrics - Disabled

Note: The other check boxes and configurations are not relevant to this scenario.

In the HPE Operations Manager metrics integration tab, the check box Enable metrics reporting for new monitors must be enabled.

6. Go to **Monitor > Properties > HPE Integration Settings**, ensure the following settings for all the monitors:
 - Under HPE Operations Manager Integration Settings, Send events check box must be disabled.
 - Under APM Service Health Preferences, set APM Service Health affected by as Metrics.

Note: In case you need to adjust a large number of monitors, you can perform Step 6 using Global Search and Replace (GSAR). Also, if you have created these monitors from templates, you can adjust the templates and publish changes to the monitors. For more information on GSAR and publishing templates, see the Using SiteScope Guide.

7. When creating a new Alert make sure the alert is configured to send events to OMi.
8. Save the settings to complete the upgrade.

Post-Upgrade Steps

Perform the following steps after you upgrade the integration:

- Deploy the SiteScope integration packages to view the Docker topology in APM. See "[Integration Prerequisites](#)" on [page 17](#) for details of the packages that are required.
- Restart SiteScope after you have deployed the package.

Chapter 6: Troubleshooting SiteScope Integration Issues

This topic describes troubleshooting when using and configuring the integration of SiteScope with APM and OM applications.

This section includes:

- ["Topology Issues" on the next page](#)
- ["Operations Manager Event Integration Issues" on page 31](#)
- ["APM Metrics Integration Issues" on page 37](#)
- ["CI Downtime Issues" on page 39](#)

Topology Issues

This section describes troubleshooting and limitations when SiteScope is integrated with APM/OMi and enabled to report monitor and related CI topology to APM/OMi.

This section includes:

- ["Opening Logs in SiteScope in Debug Mode" below](#)
- ["Opening Logs in APM/OMi in Debug Mode" below](#)
- ["No Topology Reported" on the next page](#)
- ["RTSM Troubleshooting" on the next page](#)
- ["Where to Configure the Port to Which Data Flow Reports" on page 30](#)
- ["Error "Failed Running script :filesystem_topology.py" in bac_integration.log " on page 30](#)

Opening Logs in SiteScope in Debug Mode

The following log files in SiteScope contain information relating to the APM/OMi integration.

- **SiteScope\logs\bac_integration\bac_integration.log**
- **SiteScope\logs\bac_integration\discovery.log**
- **SiteScope\logs\bac_integration\probeGW-taskResults.log**
- **SiteScope\logs\bac_integration\topology_queue_consumer.log**

Open the relevant log files in debug mode using the instructions listed below.

To open logs in SiteScope in debug mode:

1. In the **<SiteScope root directory>\conf\core\Tools\log4j\PlainJava** folder, open the **bac_integration.properties** file and change the debug level to the appenders listed in **attachment1.txt** (attached to this PDF). To view the attachment, select **View > Navigation Panels > Attachments**, and select **attachment1.txt**.
2. Add the appenders listed in **attachment2.txt** (attached to this PDF) to the **probeGW-taskResults.log** file. To view the attachment, select **View > Navigation Panels > Attachments**, and select **attachment2.txt**.
3. Add the appender listed in **attachment3.txt** (attached to this PDF) to the **log topology_queue_consumer.log** file. To view the attachment, select **View > Navigation Panels > Attachments**, and select **attachment3.txt**.

Opening Logs in APM/OMi in Debug Mode

The following log files in APM/OMi contain information relating to the integration with SiteScope. Open the relevant log files in debug mode using the instructions listed below.

- **<APM/OMi root directory>\log\odb\odb\mam.autodiscovery.log**
- **<APM/OMi root directory>\log\odb\odb\cmdb.reconciliation.log**

- **<APM/OMi root directory>\log\odb\odb\cmdb.reconciliation.datain.ignored.log**
- **<APM/OMi root directory>\log\odb\odb\discoveryServlet.log**

To open logs in APM/OMi (on the Data Processing server machine in a distributed environment) in debug mode:

Change RTSM debug level in APM/OMi:

- **<APM/OMi root directory>\odb\conf\log\reconciliation.properties**
- **<APM/OMi root directory>\odb\conf\log\mam.properties**
- **<APM/OMi root directory>\odb\conf\log\mam.web.properties**

No Topology Reported

1. Open all SiteScope and APM/OMi logs in debug mode. For details, see ["Opening Logs in SiteScope in Debug Mode" on the previous page](#) and ["Opening Logs in APM/OMi in Debug Mode" on the previous page](#).
2. Check if there are **\bin** files stuck in the **<SiteScope root directory>\cache\topologyresultsData\merged** directory.
3. Check for errors in the logs in the following order:
 - **bac_integration.log**. Topology is not sent due to general errors or syntax problems in the scripts.
 - **discovery.log**. Shows the complete picture of the topology reported from SiteScope to APM/OMi using Data Flow Management.
 - **topology_queue_consumer.log**. Shows the topology SiteScope is trying to send to the Data Flow probe. (It does not mean that this is the topology that the probe client sends to the server). This log reflects what SiteScope script intended to report to Data Flow Management.
 - **probeGW-taskResults.log**. Shows the topology Data Flow Management sends to the RTSM server.
 - **mam.autodiscovery.log**. Shows the steps Data Flow Management probe is doing on the topology reporting from SiteScope to Data Flow Management (bulk creation) and the interaction with the RTSM server.
 - **cmdb.reconciliation.log**. If the issues are on the RTSM server-side, it is most likely a reconciliation issue.
 - **cmdb.reconciliation.datain.ignored.log**. Shows topology that is ignored by the RTSM server and not reported.
 - **discoveryServlet.log**. Shows data from the connection opened by SiteScope and the reply sent to SiteScope. Check for exceptions in this log when there are issues with topology not being sent to APM/OMi. This log exists also on BAC 8.0.
4. It is recommended to open logs that are in XML format using an XML editor.

RTSM Troubleshooting

To get the properties of a CI reported to a Data Flow database with JMX:

1. Open `http://<APM/OMi_machine>:21212/jmx-console/` in a Web browser.
2. Click **UCMDB:service= Model Services**.
3. Invoke method: `retrieveObjectProperties`.

Where to Configure the Port to Which Data Flow Reports

The server settings are initialized in APM in **Admin > System Availability Management > Topology Settings** from the **Topology receiver port** or **Topology receiver SSL port** boxes.

Error "Failed Running script :filesystem_topology.py" in bac_integration.log

This is caused by the download mechanism which fails to rename the `filesystem_topology.py.11` file to `filesystem_topology.py` after it is downloaded from APM/OMi to SiteScope.

To fix this issue, reload the scripts from APM/OMi:

1. Stop the SiteScope service.
2. Delete the contents of the `<SiteScope root directory>\discovery\hsqldb` folder.
3. Delete the contents of the `<SiteScope_root_directory>\cache\persistent\topaz` folder.
4. Delete the content of the `<SiteScope_root_directory>\cache\topologyresultsData\merged` folder.
5. Start the SiteScope service. The scripts from APM/OMi are reloaded and renamed.

Operations Manager Event Integration Issues

This section describes troubleshooting when using the Operations Manager integration to send SiteScope events directly to the OMi server.

This section includes:

- ["Integration Setup Problems" below](#)
- ["Unable to send events" on page 33](#)
- ["Certificate Requests Do Not Reach the Operations Management Server" on page 36](#)



Tip: When referring to the integration log file, you can open it from the SiteScope user interface (**Server Statistics > Log files > HPSiteScopeOperationsManagerIntegration.log**).

Integration Setup Problems

Symptom:

Any problem that occurs while trying to configure the Operations Manager Integration (between connecting the agent to the OM/OMi server and sending a test message).

Troubleshooting:

1. In SiteScope, open the HPE Operations Manager Integration dialog box panel (**Preferences > Integration Preferences > HPE Operations Manager Integration**).
2. In the HPE Operations Manager Integration Main Settings pane, check the **HPE Operations agent installation path**.
 - a. Click the **Resolve Path** button.
 - b. Make sure the agent is installed on the path you see in this field.
 - If the agent is installed on a different path, update the path accordingly.
 - If you do not see the path is resolved (probably the agent is not installed properly), try restarting the server machine. If it does not help, remove the Operations Agent and then install it again (it is also recommended to restart the server).
 - c. Make sure your OM management server or OMi Gateway host name is typed correctly in the host field.
3. Click the **Analyze** button.
 - a. If the command outputs are empty, there is a problem with the agent installation. Remove the Operations Agent and then install it again (it is also recommended to restart the server).
 - b. Check that the `bbcutil` command output returns **status=eServiceOK**. If it does not, there is a connectivity problem to your OM management server.
 - c. Check the `opcagt -status` command output. You should see a few processes running (some can be in Aborted state—this is fine at this stage). If they are not running, manually start the agent by running command line: `opcagt -start`, or restart your server machine.

4. Make sure your OM management server is up and running.
5. If you are working with OMi, check your Gateway and Data Processing Server:
 - a. Run command line `ovc -status` to check the server. Make sure all processes are running (in particular, the "Certificate Broker"). If they do not start, run command line `ovc -start`
 - b. Check the connection from SiteScope to the Gateway Server by running the command: `ping https://<OMi Gateway Server>/com.hp.ov.opc.msgr`. If this fails, restart the WDE process on the Gateway Server.
6. If you are working with a distributed OMi environment, follow the procedures for initiating trust between your Gateway and Data Processing Server, and forwarding the certificate request from the Gateway to the Data Processing Server.

For details, see the section on sending events to OMi or OM in Integrating SiteScope with HPE Operations Manager Products in the SiteScope Help. You can check the [HPE Software Integrations](#) site for the latest version of this guide.

7. Click the **Connect** button, and make sure the command output returns: `opcactivate Info: Successfully activated OVO agent`.

If it does not work, contact your OM administrator for assistance.

Note: If there is a large time difference (more than 24 hours) between the certificate server and the HPE Operations agent, you might encounter the following error when running agent commands such as `ovc - status`, `ovc -start`, or `opcagt -status`:

```
(ctrl-21) Communication error when executing 'Status' method.  
(sec.core-113) SSL certificate verification error (The presented peer  
certificate is not yet valid.)
```

This problem occurs because certificates are only valid in the specified time period, and usually solves itself (after a day) when the certificate becomes valid. The time is specified in Coordinated Universal Time (UTC), independent from time zones, and certificates are issued to be valid from 24 hours in the past.

8. Accept the certificate request.
 - When connecting to an OMi server, follow the step for accepting the agent connection request in Integrating SiteScope with HPE Operations Manager Products in the SiteScope Help. You can check the [HPE Software Integrations](#) site for the latest version of this guide.
 - When connecting to an OM management server, consult your OM administrator. If you do not see the certificate request, contact your OM administrator.
9. Click the **Analyze** button.
 - a. Make sure the `ovcert -check` is ok, and it ends with "Check Succeeded".
 - b. Make sure `ovcert -list` lists some certificates.
 - c. If there are problems with the command outputs:

- Contact your OM administrator, or
 - Start the integration process troubleshooting from the connect phase, or even reinstall the agent.
10. Click the **Install Policies** button.
- a. If you get an error here or this process is stuck with "please wait" and:
 - You recently reinstalled the agent and did not restart yet, restart your server.
 - Otherwise, there is a problem with the agent (and the additional policy activation tool package) installation. Reinstall on a clean image.
 - b. Click the **Analyze** button, or check the output of the Install Policies for the list of policies. Make sure you see the following list with all enabled:
 - HP_SiteScope_to_Operations_Manager_Integration_by_Log_File
 - HP_SiteScope_to_Operations_Manager_Integration
 - SiteScope_Hosts_Discovery
11. In the **Test Message** box, type a message and click **Send test message**.
- a. Check your OM Event Console or Operations Management Event Browser.
 - b. If you do not see the message in the Event Console/Browser:
 - Run command line: `opcmsg a=a o=o msg_t=xxx`
 - If the command is not available, something went wrong with the process so far (either the certificate or the policies does not work). Try to install the policies again, and if the same problem occurs contact HPE Software Support.
 - If the command is executed but you still do not see the message in the Event Console, contact your OM administrator for support.

Unable to send events

Symptom 1:

Sending a test event from the HPE Operations Manager Integration dialog box does not reach the OM Event Console/Operations Management Event Browser.

Troubleshooting:

1. In the HPE Operations Manager Integration dialog box, enter a test message in the **Test message** box, and click **Send test message**. If the test message is not displayed in the Event Console, follow all the steps in "[Integration Setup Problems](#)" on page 31, and then try again.
2. Click the **Analyze** button, and make sure all commands are successful (in particular, see the list of policies installed). For details, see "[Integration Setup Problems](#)" on page 31.
3. Click the **Send Test Event** button.
4. In the **<SiteScope root directory>\logs** directory, check the events log file, **HPSiteScopeOperationsManagerIntegration.log**. Verify the event entry in the log file. If you do not see it, contact HPE Software Support.

5. If you still do not see the event in the OM Event Console/Operations Management Event Browser, check you are viewing the correct node in OM, or are not filtering out anything in the Operations Management Event Browser. If you still do not see the event, contact HPE Software Support.
6. Open the **<SiteScope root directory>\tools\OMIntegration\Policies\F516CEC3-3AD4-4627-9CFD-BB155B894349_data** file, and check that the path specified for **HPSiteScopeOperationsManagerIntegration.log** is correct (it might use an environment variable). If you make any changes here, you must install the policies again.
7. Check if the agent received the event and sent it to OM/Operations Management:
Make sure that the agent knows the location of the log file.
On Windows: Check if %SITESCOPE_HOME% variable is defined. If it is not defined:
 - a. Define %SITESCOPE_HOME%.
 - b. Remove the policy:

```
ovpolicy -remove -polname HP_SiteScope_to_Operations_Manager_Integration_by_Log_File
```
 - c. Reinstall the policies from the SiteScope user interface.**On UNIX:** Check if the log file policy contains the location of the log:
 - a. Open the policy:

```
"opt/HP/SiteScope/tools/OMIntegration/Policies/F516CEC3-3AD4-4627-9CFD-BB155B894349_data"
```
 - b. Check LOGPATH is set to "opt/HP/SiteScope logs/HPSiteScopeOperationsManagerIntegration.log"
If it is not, change the path and reinstall the policy (see the Windows steps above).
8. If you still do not see the event in the OM Event Console/Operations Management Event Browser, check:
 - You are viewing the correct node (in OM).
 - You are not filtering out anything (in the Operations Management Event Browser).Otherwise contact support.

Symptom 2:

The metric status change or alert event is not displayed in the OM Event Console/Operations Management Event Browser.

Troubleshooting:

1. Check if the test event is displayed in the Event Console/Browser. If it is not displayed, follow the guidelines for Symptom 1 in ["Unable to send events" on the previous page](#).
2. Check that event integration is enabled in the monitor or alert configuration settings. Change the monitor metric status, or trigger an alert. In the **<SiteScope root directory>\logs** directory, check the events log file, **HPSiteScopeOperationsManagerIntegration.log**.
3. If you do not see the event entry in the log file, check you enabled event integration correctly in the monitor or alert you are running. For details, see Integrating SiteScope with HPE Operations

Manager Products in the SiteScope Help or check the [HPE Software Integrations](#) site for the latest version of this guide.

If it is still not in the log file, contact HPE Software Support.

4. If you see the event entry in the log file, but not in the Event Console/Browser:
 - a. Check that no filter is set in the Event Browser.
 - b. If it is a newly-created monitor, and you are filtering the related CI in Operations Management, it is possible that the CI topology is not reported yet. Try again in a few minutes.
 - c. In OM legacy, make sure the event target node exists on your console.
 - d. Contact HPE Software Support.

Symptom 3:

You see the metric or alert event in the Operations Management Event Browser, but it has no related CI or HI, or Indicator state or severity.

Troubleshooting:

1. Check the event attribute values in the **HPSiteScopeOperationsManagerIntegration.log** file located in the **<SiteScope root directory>\logs** directory. Look for the HI (ETI) and CI hint. They should look like this: `CPUload:High:80` and `SiteScope:3:123456` respectively.
 - a. To know the attribute order in this tab separated values line, you can send a test event before this event and compare the lines. The test event writes the name of each attribute in its order.
 - b. If the CI Hint or HI hint are unknown, empty, or look different than the example, there is a problem with the SiteScope configuration.
 - o Check that the SiteScope is registered to OMi.
 - o Check that the monitor thresholds have indicator states assigned to them, or that your alert has some ETI and ETI state set.
 - o Check the preference setting for reporting SiteScope data in the monitor configuration is set to **Events** (in **HPE Integration Settings > APM Service Health Preferences**).
2. If everything looks fine in the log file in SiteScope, open the event in the Operations Management Event Browser.
 - a. In the **General** tab, check the **related CI** attribute. If you do not see the related CI, select the **Resolver** tab and check the **Status** field.
 - o Check if there is information about the CI resolution failure.
 - o Check that the monitor topology is available in the OMi server (you can check this in the System Hardware or System Monitors views).

Note: If this is a newly-created monitor, it will take few minutes for the topology to arrive and the event to be assigned with a related CI.

- b. In the **General** tab, if you see the **related CI** but **Event Type Indicator** is empty:

- Select the **Resolver** tab and check the ETI Hint attribute value sent by SiteScope. If it is empty or unknown, check your SiteScope configuration.
- If the value exists but does not show up in **Event Type Indicator** in the General tab, there was a problem when applying the indicator to the CI. Check Service Health or Operations Management for support.

Certificate Requests Do Not Reach the Operations Management Server

Troubleshooting: Run the following command on the Operations Manager server:

```
"ovconfchg -ns sec.cm.server -set IsIPV6Enabled FALSE"
```

APM Metrics Integration Issues

This section describes troubleshooting when working with the APM metrics integration if CI statuses are not displayed in Service Health.

This section includes the following troubleshooting steps:

- "Check HI/KPI assignment" below
- "Check that SiteScope data is not ignored by APM" below
- "Check CI resolution" on the next page
- "If there are no HIs on the relevant CI (in case the problem is with the monitored CI and not the monitor/measurement)" on the next page
- "If there are no KPIs on the relevant CI (in case the problem is with the monitored CI and not the monitor/measurement)" on the next page
- "If there are no HIs/KPIs and everything seemed to work in the previous two steps" on the next page

1. Check HI/KPI assignment

If CI statuses are not displayed in Service Health, check if HIs and KPIs are assigned to the relevant CI:

- a. In APM, select **Admin > Service Health > CI indicators**, expand the **Monitors** folder, and select one of the following views: System Monitors, System Hardware Monitoring, or System Software Monitoring.
- b. In the view you have selected, check if there are HIs and KPIs assigned to the relevant CI, as follows:
 - System Monitors view: SiteScope Monitor or SiteScope Measurement CI
 - System Hardware Monitoring view: Node or Computer CI
 - System Software Monitoring view: Running Software CI

2. Check that SiteScope data is not ignored by APM

If HIs and KPIs are assigned to the relevant CI, check if SiteScope sends data and that the data is not ignored by APM.

- a. Run the relevant monitor in SiteScope.
- b. On the APM machine, open the **wdeIgnoredSamples.log** located in **<APM root directory>\log\wde** folder. If this log includes samples of the monitor you have just run, or you see many ignored samples, this means SiteScope is sending the wrong data.
- c. If you do not see the relevant SiteScope sample, look for it in the **wdePublishedSamples.log** and check that **Eti_id** and **ci_hint** are not null.
- d. If you cannot find the SiteScope sample in the wde logs in APM, check in SiteScope if the sample was generated. Open the **bac_integration.properties** file located in **<SiteScope root directory>\conf\core\Tools\log4j\PlainJava** and add the text found in **attachment4.txt** (attached to this PDF) to the end of the file. To view the attachment, select **View > Navigation Panels > Attachments**, and select **attachment4.txt**.

- e. Run the monitor, and check the **samples.log file** in the **<SiteScope root directory>\logs\bac_integration** directory.

3. Check CI resolution

If HIs and KPIs are assigned to the relevant CI, and samples are not ignored by the wde logs in APM, check CI resolution (in case the problem is with the monitored CI and not the monitor or measurement).

- a. Run the relevant monitor in SiteScope.
- b. On the APM machine, open the **cir_enrichment.log** file located in the **<APM root directory>\log\wde** folder, and check if there are badHint or CI not found messages.

Note: To change the log file to debug mode, open the **cir_enrichment_service.properties** file located in the **<APM root directory>\conf\core\Tools\log4j\wde** folder and change **loglevel** to **loglevel=DEBUG**.

4. If there are no HIs on the relevant CI (in case the problem is with the monitored CI and not the monitor/measurement)

If the relevant CI does not have any HIs, in SiteScope, check the indicator mappings in the monitor user interface (**HPE Integration Settings > Indicator Settings**).

- If the mapping seems correct, go to the correct SiteScope Monitor CI or SiteScope Measurement CI in RTSM in APM, and check that you can see the HI ID in the **health_indicator_list** attribute.
- If you can see it, check that you can see the monitored CI connected to this SiteScope Monitor or Measurement CI with a **monitored_by** link.

5. If there are no KPIs on the relevant CI (in case the problem is with the monitored CI and not the monitor/measurement)

If the relevant CI does not have any KPIs, check if KPI assignments are defined for the CI types.

- a. In APM, select **Admin > Service Health > Assignments > KPI Assignments**.
- b. In the CI Types tree, drill down to the relevant CI (for example, **Infrastructure Element > Node > Computer**), and check if the CIT has a KPI assignment defined. KPI assignments appear in the right pane.

6. If there are no HIs/KPIs and everything seemed to work in the previous two steps

Try to resynchronize the HI and KPI assignments on the problematic CIs, based on their CI types.

- a. In APM, select **Admin > Service Health > Assignments > Health Indicator Assignments**.
- b. Select the problematic CI type (for example, **computer**), and select the HI assignment you want to run.
- c. Click the **Synchronize CI Type** button.
- d. When this is done, perform the same action on the KPI assignment using the **KPI Assignments** tab.

CI Downtime Issues

This section describes troubleshooting CI downtime issues when SiteScope is integrated with APM/OMi.

This section includes:

- ["Troubleshooting CI Downtime \(APM/OMi-side\)" below](#)
- ["Troubleshooting CI Downtime" below](#)

Troubleshooting CI Downtime (APM/OMi-side)

If the SiteScope monitor does not enter downtime (it is still running, or is sending alerts while it should not be according to the downtime configuration), perform the following checks on SiteScope and APM/OMi:

1. Check SiteScope reported topology to APM/OMi. In APM/OMi, select **Admin > RTSM Administration** and check the node and monitor CIs.
2. Logs:
 - Open **<APM/OMi root directory>\conf\core\Tools\log4j\PlainJava\topaz.properties** and change the debug level to the following appender:

```
log4j.category.com.mercury.topaz.sitescopetmc=DEBUG, aims.appender
```
 - Open the **aims.ejb.log** file located in **<APM/OMi root directory>\log\EJBContainer** and search for "downtime" string. Check whether your downtime was created, which CIs were affected by it, and when a downtime request was made from SiteScope.

Troubleshooting CI Downtime

If the SiteScope monitor is still running after configuring downtime on a specific node using the stop monitoring option, perform the following checks on SiteScope:

1. In **Preferences > Infrastructure Preferences > General Settings**, check the **Enable downtime mechanism** setting is enabled.
2. Check the following logs:
 - **<SiteScope root directory>\logs\audit.log**
 - **<SiteScope root directory>\logs\downtime.log**To open these logs in debug mode:
 - a. In the **<SiteScope root directory>\conf\core\Tools\log4j\PlainJava** folder, open the **log4j.properties** file.
 - b. Change the debug level to the appenders listed in **attachment5.txt** (attached to this PDF). To view the attachment, select **View > Navigation Panels > Attachments**, and select **attachment5.txt**.

Appendix A: Delete an Existing Operations Manager Integration and Create a New Operations Manager Integration

This topic covers the steps required to delete the existing OMi integration and create a new one.

1. Log on to SiteScope.
2. Click **Preferences > Integration Preferences** and select the OMi integration.
3. Click to delete the integration.
4. Clean the agent manually using any one of the following options:
 - Uninstall and reinstall HPE Operations Agent.
 - Clear the OMi server details in the Operations Agent config files.

Uninstall and reinstall the HPE Operations Agent

1. Uninstall HPE Operations Agent.
(Windows) In the Control Panel, select Add or Remove Programs or Programs and Features, and uninstall HPE Operations Agent

(Linux) Run the following commands (Linux)

```
cd /opt/OV/bin/OpC/install  
./oainstall.sh -r -a
```

2. Reinstall HPE Operations Agent.

(Windows) Browse to the folder where the agents bits are located and run the command:

```
cscript oainstall.vbs -i -a
```

(Linux) Browse to the folder where the agents bits are located and run the command:

```
./oainstall.sh -i -a
```

Clear the OMi server configuration from Operations Agent manually

1. Remove the certificates with the following command:

```
ovcert -list
```
2. For all IDs in the output, run the command:

```
ovcert -remove 'id'
```
3. Remove the old OMi server details using the following command:

```
ovconfchg -ns -clear -all
```
4. Restart Operations Agent.

```
ovc -kill  
ovc -start
```

Create a new OMi integration in SiteScope

Verify that the Operations Agent is installed successfully before you create a new integration.

1. Complete the HPE Operations Agent installation using the SiteScope Configuration Tool.
 - a. Run the SiteScope Configuration Tool on the SiteScope server:
 - On Windows: Select **Start > All Programs > HPE SiteScope > Configuration Tool**.
 - On Linux (graphic mode): Run `<SiteScope install Directory>/bin/config_tool.sh`;
 - In console mode, run `<SiteScope install Directory>/bin/config_tool.sh -i console`.
 - b. In the Configure HPE Operations Agent installed separately option (HPE Operations Agent option in console mode), select Configure HPE Operations Agent to complete the configuration of the HPE Operations Agent.
 - c. Restart SiteScope.

After configuring the HPE Operations Agent, check the installation status in the following log files.

- Log file name: HPSiteScope_config_tool.log
- Log file location: win- %temp% on Windows platforms and /temp or /var/temp on UNIX/Linux platforms

Tip: Search for results of "installOATask"

2. Configure the Operations Agent connection settings on the SiteScope server.

Under Integration Preferences, configure the HPE Operations Agent connection settings to the OM (i) management server.

- a. Select **Preferences > Integration Preferences** and click **OK** . The Integration Preferences Type dialog box is displayed.
- b. Select the HPE Operations Manager Integration from the list of integrations. The HPE Operations Manager dialog box is displayed.
- c. Under the HPE Operations Manager Integration Main Settings panel, enter the following under Connection Settings:
 - **HPE Operations Agent installation path**. Enter the path to the HPE Operations Agent installation on the SiteScope server.

Note: On Windows platforms, the installation path is automatically resolved from the HPE Operations Agent InstallDir key in the registry and appears in this field. The default path is `C:\Program Files\HP\HP BTO Software\`. If the key is not found, the field is left empty, and you must manually enter the installation path.

On UNIX platforms, SiteScope checks to see if the HPE Operations Agent is installed in the default `/opt/ov` path. If it is not there, the field is left empty, and you must manually enter the agent installation path. If you manually entered a different path, click the **Resolve Path** button to restore the default installation path found by SiteScope.

- o **HPE Operations Manager server.** Enter the name or IP address of the OM/OMi server to which you want to connect.
- d. Click **Connect** to connect the agent to the OM management or OMi server. This sends a connection request from the agent to the specified server.
- e. Accept the certificate request from OM/OMi.
- f. Click the **Install Policies** button to install policies from SiteScope.
- g. Click Analyze to verify if everything is working fine.
- h. Check connection status and send test message from the SiteScope server.

Appendix B: Redirect the Operations Manager Integration

This topic covers the detailed steps to redirect the Operations Manager integration to a different server.

Steps

1. On the SiteScope server where the HPE Operations Agent is installed, run the following command to create a new core ID:

```
ovcoreid -create -force
```

2. To remove the certificates, run the command:

```
ovcert -list
```

For all IDs in the output, run the command:

```
ovcert -remove 'id'
```

3. Set the new server host name and core ID with the following commands:

```
ovconfchg -ns sec.cm.client -set CERTIFICATE_SERVER <new OM(i) server>
```

```
ovconfchg -ns sec.core.auth -set MANAGER <new OM(i) server>
```

```
ovconfchg -ns sec.core.auth -set MANAGER_ID <new OM(i) server ovcoreid>
```

```
ovconfchg -ns eaagt.lic.mgrs -set general_licmgr <new OM(i) server>
```

```
ovconfchg -ns sec.cm.certificates -set CERT_INSTALLED FALSE
```

4. Run the following commands to restart the HPE Operations Agent:

```
ovc -kill
```

```
ovc -start
```

5. Create a new certificate with the following command:

```
ovcert -certreq
```

6. Grant a certificate request on the OM or OMi Gateway Server (in case of distributed OMi, grant certificate request on the Data Processing Server).

7. On SiteScope, open the Operations Manager Integration dialog box and in the HPE Operations Manager Integration Main Settings panel,

change the name or IP address of the OM/OMi server in the HPE Operations Manager /OMi server box.

Note: After reconnecting to the OM server, it can take some time until events are sent to OM. Restarting the OM server, the HPE Operations Agent, or both, might fix it.

Send Us Feedback



Let us know how we can improve your experience with the Integration with Application Performance Management (APM) and Operations Manager i (OMi).

Send your email to: docteam@hpe.com