



HPE Operations Bridge Reporter

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Troubleshooting Guide

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Chapter 1: Troubleshooting HPE Operations Bridge Reporter

HPE Operations Bridge Reporter (HPE OBR) is a cross-domain historical infrastructure performance reporting solution. It displays both top-down reports from Business Service Management (BSM) Business Service and Business Application or HP Operations Manager (HPOM) Node Group perspective to the underlying infrastructure. It also displays reports from the infrastructure to the impacted Business Services and Business Applications or Node Groups. It leverages the topology information to show how the underlying infrastructure health, performance and availability are affecting your Business Services and Business Applications or Node Groups in the long term.

Like any other enterprise application, HPE OBR can experience problems in any IT environment. These problems occur because of the complex behavior of the application, changing hardware and software demands and infrastructure changes. Troubleshooting HPE OBR means identifying and diagnosing problems with the aim of keeping the application functioning optimally.

About this Guide

This guide covers the common problems that you may encounter while using HPE OBR and provide steps to troubleshoot them. Each problem is documented with a symptom, the description about the symptom and resolution for the symptom.

When to use this guide?

Use this guide when you:

- Encounter problems in installing, configuring and operating HPE OBR.
- Notice alerts in the HPE OBR Administration Console related to database connection, data collection, job streams, or services.
- Cannot view any data in the reports.
- Problems in data backup and recovery.

How to use this guide?

This guide is organized into the following sections:

- [Troubleshooting Installation Issues](#)
- [Troubleshooting Administration Issues](#)
- [Troubleshooting Reporting Issues](#)
- [Troubleshooting Data Source Issues](#)
- [Troubleshooting Client Authentication Certificate Problems](#)
- [Troubleshooting Disaster Recovery Issues](#)

Revision History

The following table lists the major changes for each new release of this document:

Document Release Date	Description of Major Changes
April 2017	Initial release.

Target Audience and Prerequisites

The target audience for this guide are the users who work with HPE OBR on a regular basis and the administrators responsible for maintaining the product. The use of this guide assumes some prerequisite knowledge. Readers must have a high-level understanding of HPE OBR features and functions and are expected to have read the following product documentation:

- [Interactive Installation Guide](#)
- [Configuration Guide](#)
- [Concepts Guide](#)
- [Online Help for Administrators](#)
- [Online Help for Users](#)
- [Release Notes](#)

Chapter 2: Introducing the HPE OBR Log Files

This section covers the following topics:

- "Configuring DEBUG Levels in the HPE OBR Log Files" below
- " HPE OBR Log File Inventory " on page 10

Configuring DEBUG Levels in the HPE OBR Log Files

Before you can effectively use a log file to troubleshoot a problem, you must have detailed information about that problem in the specific log file. By default, the log file only displays INFO, ERROR, or FATAL types of messages. For detailed information, you can configure HPE OBR to log DEBUG or ALL types of messages in the log file. A DEBUG type of message provides additional information about a particular error that occurred rather than just a simple error or warning message. To set the DEBUG level for a log file, perform the following steps:

1. Open the `BSMRLogConfigClient.xml` file from the following location:

For Windows: `%PMDB_HOME%\config`

For Linux: `$PMDB_HOME/config`

2. Search for a particular log file name and note down its appender name.

For example, to modify the level of the `transform.log` file, first search for the `transform.log` file. Each log file in HPE OBR is associated with an Appender¹ component in the `BSMRLogConfigClient.xml` file. Searching for the log file displays the `<appender>` tag for that log file.

¹A logging framework generates output for multiple destinations, such as generating output of trace statements to the console or serializing it into a log file. In HPE OBR logs, the Appender component defines this output medium. These components append themselves to the Logger component and relay the output to an output stream.

For the transform.log file, the following Appender component appears:

```
<appender name="transformAppender" class="com.hp.bto.bsmr.util.logger.BSMRRollingFileAppender">
  <param name="File" value="{pmdb.home}/log/transform.log"/>
  <param name="Append" value="true"/>
  <param name="MaxFileSize" value="4MB"/>
  <param name="MaxBackupIndex" value="10"/>
  <layout class="org.apache.log4j.PatternLayout">
    <param name="ConversionPattern" value="%d{ISO8601}%5p,%C.%M,%m%n"/>
  </layout>
</appender>
```

As shown in the preceding example, for the transform.log file, the appender name is transformAppender.

3. Search for the appender name string in the file. The Logger component for the specified appender name is displayed. For example, for the transformAppender, the following Logger component appears:

```
<logger name="com.hp.bto.bsmr.transform" additivity="false">
  <level value="INFO"/>
  <appender-ref ref="transformAppender"/>
  <appender-ref ref="errorAppender"/>
</logger>
```

4. In the <logger> tag of the string, change the <level value> from INFO to DEBUG.
5. Save changes and close the file.

Configure DEBUG Levels for the following log files in the location {PMDB_HOME}/config:

- loader
- aggregate
- DR
- customscript
- pollerDataProcessor
- analyzeStat

To configure DEBUG level for the above mentioned log files, follow these steps:

1. Go to the following path:

On Windows: %PMDB_HOME%/config

On Linux: \$PMDB_HOME/config

2. Edit the following field in `shrlogger.conf` file for aggregate:

```
log4perl.aggregate.aggregate=DEBUG
```

where, INFO is the default level.

You can follow the same steps to configure the DEBUG level for other log files in the `shrlogger.conf` file.

The `ETLLogConfig.xml` can be used to configure the DEBUG level for the collect, mapping and reconcile logs of ETL.

To set the DEBUG level for a log file, perform the following steps:

1. Open the `ETLLogConfig.xml` file from the following location:

For Windows: `%PMDB_HOME%\config`

For Linux: `$PMDB_HOME/config`

2. Search for a particular log file name and note down its appender name.
3. Search for the appender name string in the file. The Logger component for the specified appender name is displayed.
4. In the `<logger>` tag of the string, change the `<level value>` from INFO to DEBUG.
5. Save changes and close the file.

HPE OBR Log File Inventory

HPE OBR uses the `log4j` API and `log4perl` for logging information. It maintains a log file for each module placed in the following location:

For Windows: `%PMDB_HOME%\log`

For Linux: `$PMDB_HOME/log`

The following table lists the log files and their location available in HPE OBR:

Log File	Location on Disk	Module	Description
AdministratorService.log	<p>Windows: <code>%PMDB_HOME%\log\</code></p> <p>Linux: <code>\$PMDB_HOME/log/</code></p>	Administrator Service	Contains log messages related to the service PMDB Platform Administrator.

Log File	Location on Disk	Module	Description
aggregate.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log	Aggregate	Contains summarized log messages related to the data from the rate tables to the hourly, daily, and forecast tables, and from the hourly tables to the daily tables.
aggrgen.log	Windows:%PMDB_HOME%\log\ Linux:\$PMDB_HOME/log	Aggregate	Contains log messages related to aggregate script generation. Appender : aggrgenAppender
analyseStat.log	Windows:%PMDB_HOME%\log\ Linux:\$PMDB_HOME/log	Database	Contains log messages related to Vertica database maintenance.
autopassJ.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	[[[Undefined variable MyVariables.ProductName2]]] Licensing	Contain messages for license-related tasks. Appender : AutopassAppender
backend.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	trendproc, trendtimer	Contains log information for all steps in the data processing job. Appender : backendLogAppender
BOEInstall_0.log BusinessObjects.	Windows: <SAP BOBJ Install Directory>\BusinessObjects Enterprise 12.0\Logging\BOEInstall_0.log	Business Objects	SAP BusinessObjects installation log files.

Log File	Location on Disk	Module	Description
12.7.log	Linux: /opt/HP/BSM/BO/setup/logs		
BSMRAbcservice.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Orchestration	Contains log messages related to the service PMDB Platform Orchestration. Appender : abcLogAppender
BSMRApp.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	NA	Application-wide log file that contains error messages from all the [[[[Undefined variable MyVariables.Product Name2]]]] modules except data processing. Appender : bsmrappender
BSMRCollectionService.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Collector	Contains log messages related to the service PMDB Platform Collection.
BSMRDBLoggerService.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Logger	Contains log messages related to the service PMDB Platform DB Logger.
bsmrfrontend.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Administration Console	Contains log messages related to the Administration Console UI web application. Appender : BSMRFrontEndAppender

Log File	Location on Disk	Module	Description
			nder
bsmrim.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Internal Monitoring	Contains log messages related to the internal monitoring of data processing job streams, Performance Management database (PMDB) platform, and Content Packs. Appender : BSMRIMAppender
BSMRIMService.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Internal Monitoring	Contains log messages related to the service PMDB Platform IM.
bufferSync.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	ETL	Contains log messages related to data flow from collectStep.log, mapperStep.log and reconcileStep.log to stage.log.
catalina*.log	Windows: %PMDB_HOME%\adminServer\logs Linux: \$PMDB_HOME/log/	Administrator Console	Contains log messages about the Apache Tomcat server that is used by Administration Console and SAP BusinessObjects launch pad.
collections.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Collector	Contains log messages related to the collection framework such as data sources configured collection, job scheduling, and

Log File	Location on Disk	Module	Description
			maintenance. Appender: collectionAppender
collectStep.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Collect	Contains log messages related to the collect step that moves data from the {PMDB_HOME}/collect directory to the {PMDB_HOME}/stage directory Appender: collectAppender
customer.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Customer Enrichment	Contains log messages on customer enrichment. Appender: CustomerAppender
customgroup.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Custom Group	Contains log messages related to importing of custom groups defined in an XML file. Appender: customgroupAppender
cpPatch.log	Windows: \${pmdb.home}/log/cppatch.log Linux: \$PMDB_HOME/log/	Content Packs	Patch installation log file. Appender: cpPatchAppender
customgroup.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Custom Group	Contains log messages related to importing of custom groups defined in an XML file.

Log File	Location on Disk	Module	Description
			Appender: customgroupAppender
customscript.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Custom Script	Contains log messages related to custom scripts defined for a data process in data warehouse. Appender: customscriptAppender
datetime.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Date, Time management	Contains log messages related to date and time maintenance in data warehouse. Appender: datetimeAppender
dbcollector.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Collector	Contains log messages related to database collection. Appender: dbCollectorAppender
dbdelete.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Database	Contains log messages related to purging the data in the database as per retention rules. Appender: DbdeleteAppender
d1c.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Dimension Life Cycle	Contains log messages related to management the Dimension Life Cycle. Appender: DLCAppender

Log File	Location on Disk	Module	Description
downtime.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Downtime	Contains log messages related to configuring downtime and enriching the performance data with configured downtime information. Appender: downtimeAppender
downtimeutility.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Downtime	Contains log messages related to the reprocessing of downtime utility. Appender: downtimeutilityAppender
DR.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Disaster Recovery	Contains log messages related to Disaster Recovery.
dw_abclauncher.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Orchestration	Contains log messages related to job streams. Log messages specific to a process can be seen in the process-specific log file. For example, loader.log for the loader process. Appender: abclauncher-RollingLogFileAppender
host-manager*.log	Windows: %PMDB_HOME%\adminServer\logs Linux: \$PMDB_	Administration Console	Contains log messages about the Apache Tomcat server that is used by

Log File	Location on Disk	Module	Description
	HOME/log/		Administration Console and SAP BusinessObjects launch pad.
enrich.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Location Enrichment	Contains log messages on generic enrichments. Appender: enrichAppender
flink-jobmanager- <system name>.log flink-jobmanager- <system name>.out	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Data Processor	Contains log messages related to the JobManager service.
flink-taskmanager- <system name>.log flink-taskmanager- <system name>.out	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Data Processor	Contains log messages related to the TaskManager service.
hpacollector.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Collector	Contains log messages related to HP Performance Agent collection. Appender: hpaCollectorAppender
hpsacollector.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Collector	Contains log messages related to HPSA collection. Appender: hpsaAppender
IAEngine.log	Windows: %PMDB_	Internal Alerting	Contains log

Log File	Location on Disk	Module	Description
	HOME%\log\ Linux: \$PMDB_ HOME/log/		messages related to Internal Alerts. Appender: iaEngineLogAppender
IAEvent.log	Windows: %PMDB_ HOME%\log\ Linux: \$PMDB_ HOME/log/	Internal Alerting	Contains log messages related to Internal Alerts. Appender: iaEventLogAppender
License.log	Windows: %PMDB_ HOME%\log\ Linux: \$PMDB_ HOME/log/	License	Contain messages for license-related tasks. Appender: licenseAppender
loader.log	Windows: %PMDB_ HOME%\log\ Linux: \$PMDB_ HOME/log/	Loader	Contains log messages related to data loading from the stage area to the data store.
localhost*.log	%PMDB_ HOME%\adminServer\ logs	Administration Console	Contains log messages related to Administration Console and SAP BusinessObjects launch pad Server Access.
location.log	Windows: %PMDB_ HOME%\log\ Linux: \$PMDB_ HOME/log/	Location Enrichment	Contains log messages from location enrichment. Appender: LocationAppender
manager*.log	%PMDB_ HOME%\adminServer\ logs	Administration Console	Contains log messages related to Administration Console and SAP BusinessObject

Log File	Location on Disk	Module	Description
			s launch pad Server Access.
mapperStep.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Mapper	Contains log messages related to transformation of collected data. Transformation includes pivot transform, rows filtering, and so on. Appender: mapperAppender
metadata.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Metadata Repository	Contains log messages related to metadata repository persistence, access, and modification. Appender: MetadataRepositoryAppender
mybsm.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	MyBSM Integration	Contains log messages related to launching of [[[Undefined variable MyVariables.Product Name2]]] reports from the MyBSM console.
nodefilter.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Collection	Contains log messages related to the node filters.
NRT_ETL.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	NRT ETL	Contains log messages related to the HPE_PMDB_Platform_NRT_ETL service.
OvInstallerLog.txt	%temp%\..\HPOvInstaller\HP-SHR_	Installer	Contains log messages related to

Log File	Location on Disk	Module	Description
	9.30\HP-SHR_9.30_<timestamp>_HPOvInstallerLog.html %temp%\..\HPOvInstaller\HP-SHR_9.30\HP-SHR_9.30_<timestamp>_HPOvInstallerLog.txt.		[[[Undefined variable MyVariables.Product Name2]]] installer. This folder also stores log files for each component of [[[Undefined variable MyVariables.Product Name2]]] such as LCore components, OVPerl, and so on.
packagemanager.log	%PMDB_HOME%\log\packagemanager.log	Package Manager	Contains log messages related to Content Pack deployment. Appender : pkgmgrAppender
pollerDataProcessor.log	Windows : %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Collector	Contains logs related to data download from remote collectors to [[[Undefined variable MyVariables.Product Name2]]] server.
Postgresql-<date and time>.log	<Postgres_install_directory>/data/pg_log	PostgreSQL	PostgreSQL log file information.
postinstallconfig.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Post Install	Contains log messages related to [[[Undefined variable MyVariables.Product Name2]]] post-install configuration. Details on database schema creation on Vertica, details on [[[Undefined variable MyVariables.Product Name2]]] Management

Log File	Location on Disk	Module	Description
			database schema creation on Postgresql. Appender: postinstallAppender
reconcilStep.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Reconciliation	Contains log messages related to reconciliation of collected data. Appender: reconcileAppender
remotepoller.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Remote Collector	Contains log messages related to configuration and metadata synchronization and data transfer between [[Undefined variable MyVariables.Product Name2]] server and the different collectors configured. Appender: remotepollerAppender
reload.log	\${pmdb.home}/log/reload.log	Reload	Log file for the contrib utility (reload.exe) that handles reload of failed data. Appender: reloadAppender
shiftmaint.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Shift Management	Contains log messages related to populating the shift fact tables based on shift configured in

Log File	Location on Disk	Module	Description
			Administration Console. Appender: shiftMaintAppender
sis_aggregate.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	SiteScope Collector	Contains logs from the SiteScope aggregate process that runs as part of collection service Appender: sisAggrAppender
siscollector.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	SiteScope Collector	Contains logs from the SiteScope collector (for both GDI and DA) Appender: sisCollectorAppender
sqlexecutor.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Sql Executor	Contains logs related to the custom SQL executions. Appender: sqlExecutorAppender
stage.log	Windows: %PMDB_HOME%\log\ Linux: \$PMDB_HOME/log/	Stage	Contains log messages related to data staging, and purging of staging area. Appender: stageAppender
stderr*.log	%PMDB_HOME%\adminServer\logs	Administrator Console	Contains messages logged to standard error by the Tomcat server.
stdout*.log	%PMDB_HOME	Administrator Console	Contains messages

Log File	Location on Disk	Module	Description
	HOME%\adminServer\ logs		logged to standard output by the Tomcat server.
topologycollector.log	Windows: %PMDB_ HOME%\log\ Linux: \$PMDB_ HOME/log/	Collector	Contains log messages related to topology collection. Appender: topologyCollectorAppender
trend.log	Windows: %PMDB_ HOME%\log\ Linux: \$PMDB_ HOME/log/	Aggregate, trendproc, trendtimer	Contains messages for all back-end processes of [[[Undefined variable MyVariables.Product Name2]]]. Each message specifies the start and end time for the logged process.
TrendTimerService.log	Windows: %PMDB_ HOME%\log\ Linux: \$PMDB_ HOME/log/	Trend Timer	Contains log messages related to the [[[Undefined variable MyVariables.Product Name2]]] timer service.
VC_collector/collector.log	\${pmdb.home} /log/VC_collector/collector.log	VC Collector	VC Collector logfiles Appender: vcAppender
VerticaService.log	Linux: \$PMDB_ HOME/log/	Vertica	Contains log messages related to the Vertica service.

Chapter 3: Troubleshooting Installation Issues

This section of the guide covers possible problems that can cause the HPE OBR installation to fail and how you can troubleshoot them.

This section lists possible symptoms, description and resolutions for HPE OBR installation issues and includes the following topics:

[HPE OBR Installation Issues](#)

[Change the Vertica Data Storage location](#)

[Post installation Issues](#)

[HPE OBR Uninstallation Issues](#)

[Content Pack Installation Issues](#)

[Content Pack Uninstallation or Upgrade Issues](#)

HPE OBR Installation Issues

Symptom	Installation failure caused by SAP BusinessObjects error
Description	<p>While running the HP Software installer, the installation fails and the following error message is displayed:</p> <p>SAP BusinessObjects is installed on the system. Please uninstall it before installing HP SH Reporter.</p> <p>If you have any component of HPE OBR (such as SAP BusinessObjects or Vertica) preinstalled or not cleanly uninstalled from previous uninstallation, the HPE OBR installation will fail because the installer tries to install the components that are bundled with the product.</p>
Resolution	<p>To resolve this problem, you must clean up the existing components from the system and rerun the installer. For a virtual system, consider re-imaging if feasible.</p>

Symptom	Installation with username having special character "&" requires system startup.
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Description	While installing HPE OBR with username having special character & then the system requests for startup.
Resolution	Click Continue and proceed with your installation.

Symptom	Installation failure due to missing libraries
Description	While installing HPE OBR, if there any missing libraries the installation precheck will fail.
Resolution	<p>To resolve this problem, perform the following steps:</p> <ol style="list-style-type: none"> 1. Go to the following location and get the list of missing libraries: <code>/tmp/SHR-Missing-Patches.txt</code> 2. Install the missing libraries. 3. Re-initiate HPE OBR installation. <p>For more information, see the <i>Installation Prerequisites</i> section in <i>HPE Operations Bridge Reporter Interactive Installation Guide</i>.</p>

Symptom	Installation stops during pre-check in Linux operating system
Description	While installing HPE OBR on Linux operating system, before selecting the Typical or Custom option, if the user presses ctrl+c the installation gets aborted.
Resolution	<p>To resolve this issue, follow these steps:</p> <ol style="list-style-type: none"> 1. Go to the location <code>/tmp/ovii.lock</code> and delete the entries. 2. Run the command: <code>ps -ef grep rpm</code> Kill the processes that are running.

Symptom	YUM check warning after HPE OBR installation (Linux only)
Description	<p>After installing HPE OBR and meeting all the pre-requisites, the following message appears with a list of missing libraries:</p> <p><i>Found 42 pre-existing rpmdb problem(s), 'yum check' output follows:</i></p>
Resolution	If you get a list of missing libraries while performing the YUM check, you can ignore these libraries as they are not mandatory for HPE OBR. This does not affect the functionality of HPE OBR.

Symptom	<p>During installation a message appears</p> <p><i>An installation configuration file saved from the last time the installer was run has</i></p>
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	<i>been found. Do you want to use the values in this file for the current installation? Please enter your choice (Y/N)</i>
Description	During the previous installation of HPE OBR, if the installer gets aborted for any reason then this message appears when you perform installation the next time.
Resolution	You can continue the installation by selecting Y. The same configuration file created by the installer during the previous installation will be used.

Symptom	Unable to bring up HPE OBR services after successful installation on Virtual machine
Description	If HPE OBR is installed on a virtual machine that is not restarted after the installation, the environment variables set by the installer will not be available to the user resulting in HPE OBR services not coming up in spite of multiple retry.
Resolution	After installing HPE OBR, ensure that you restart the virtual machine.

Symptom	Install in progress, but the Done button is enabled
Description	This issue may appear while performing HPE OBR installation, upgrade or installing Remote Collectors. The installer progress bar shows that the installation is in process but the Done button is enabled. This is because the installer is not refreshed.
Resolution	Click Done to complete the process and check the install log files as follows to see if all the components are installed. Windows: %temp%/../HP-SHR_9.40_HP0vInstaller.txt Linux: /tmp/HP-SHR_9.40_HP0vInstaller.txt

Symptom	After interrupted installation, unable to continue reinstall with the installed components (Windows only)
Description	This issue may occur when you accidentally quit the HPE OBR installation wizard and later continue to reinstall with the existing components.
Resolution	Perform the following steps to resolve this problem: <ol style="list-style-type: none"> 1. Start the installation wizard and review the Pre-Install Summary. 2. Select the Force repair of already installed component packages and click Install. 3. If the reinstall fails then, click Rollback in the pop-up message. The installed components will be removed. 4. Start a new installation.

Symptom	Installation fails for Management database package while installing as
----------------	---

	Domain user
Description	HPE OBR installation fails with domain user during HPPmdbPostgreSQL package installation with the following error in the install log. <i>C:/HP-SHR/Postgres/data ... initdb: could not change permissions of directory "C:/HP-SHR/Postgres/data": Permission denied in %temp%\install-postgresql.log (or) %temp%\bitrock_installer.log</i>
Resolution	Uninstall HPE OBR and create a local user that is a member of the Local Administrators group with administrator rights and install HPE OBR again.

Symptom	Error in install.log - name not found: verticadba <i>Error getting user information: 'getpwnam(): name not found: verticadba</i>
Description	After successful installation of HPE OBR and Vertica database creation, the install.log file has the following error: <i>ERROR:vertica.system.usergroup.UserGroup:Error getting user information: 'getpwnam(): name not found: verticadba</i>
Resolution	This error can be ignored and you can move ahead with the post-installation steps.

Change the Vertica Data Storage location

Symptom	The Vertica Data Storage location current disk is filled
Description	If the current Vertica Data Storage disk is filled, the location of the disk has to be changed.
Resolution	Follow these steps to change the location of the disk: <ol style="list-style-type: none"> 1. Create a new storage disk. 2. Run the following command to change the owner and group to Vertica user for the newly created storage disk. <i>chown <Vertica User Name>:<vertica group> <Path of new disk mounted></i> where, <Vertica User Name> is the vertica user name <vertica group> is the group vertica user belongs to Note: The Vertica group is same as Vertica user name. <Path of new disk mounted> is the path where new disk is mounted 3. Open the sql prompt and run the following command to create the new disk

	<p>location:</p> <pre>CREATE LOCATION '<Path of new disk mounted>' LABEL 'OBR';</pre> <p>where, <Path of new disk mounted> is the path where new disk is mounted</p> <p>4. Run the following command to create the storage policy:</p> <pre>SELECT set_object_storage_policy ('<Vertica database name>', 'OBR');</pre> <p>where, <Vertica database name> is the name of the created database during post-install.</p> <p>To verify the new disk is added, run the following SQL query:</p> <pre>select * from disk_storage;</pre>
--	---

Using Vertica Service

Following are the commands for Vertica service:

1. To check the current status, go to `etc/init.d` and run the command:

```
service HPE_PMDB_Platform_Vertica status
```

2. To start the service, go to `etc/init.d` and run the command:

```
service HPE_PMDB_Platform_Vertica start
```

3. To stop the service, go to `etc/init.d` and run the command:

```
service HPE_PMDB_Platform_Vertica stop
```

Post Installation Issues

Symptom	HPE OBR Fails to Create the Vertica Schema during post installation
Description	<p>The Vertica schema creation step may fail during post-install due to following reasons:</p> <ul style="list-style-type: none"> • Invalid or incorrect hostname given during the post install step • Vertica database had a sudden shut down while performing the post-install schema creation
Resolution	To overcome this issue, follow these steps:

	<ol style="list-style-type: none"> 1. From the system where HPE OBR is installed, go to <code>etc/init.d</code> folder, stop the administrative service by running the following command: <code>service HPE_PMDB_Platform_Administrator stop</code> 2. From the system where HPE OBR is installed, go to <code>/opt/HP/BSM/PMDB/config</code> and delete <code>postinstall</code> folder. 3. From the Vertica system, drop the database by running the following command: <code>su verticadba -c "/opt/vertica/bin/adminTools -t drop_db -d pmdb"</code> 4. Go to the Vertica datafile location and the catalog file location, delete the <code>pmdb</code> folder in each using the following commands: <code>rm -rf pmdb in /opt/vertica/<db file name></code> <code>rm -rf pmdb in /opt/vertica/<catalog file name></code> 5. Go to <code>etc/init.d</code> folder, start the administrative service by running the following command: <code>service HPE_PMDB_Platform_Administrator start</code>
--	---

Symptom	Database schema creation failed
Description	<p>In a typical installation scenario, after completing the HPE OBR installation, while performing post-install, following error message appears:</p> <p><i>"Database schema creation has failed/ Sorry cannot proceed further"</i></p> <p>This is because the user has executed the <code>createverticadatabase.sh</code> on the system and the vertica database created during the installation gets overwritten.</p>
Resolution	<p>Perform the following to resolve this issue:</p> <ol style="list-style-type: none"> 1. Go to the location <code>/opt/vertica/config/</code> and open the <code>admintools.conf</code> file and check if the Database has the <code>pmdb</code> as parameter. This ensures that the database is created. 2. Go to the location <code>/opt/HP/BSM/</code> and open the file <code>ShrDepolyment.conf</code> and check if the Features Installed parameter has OBR, BO, and Vertica. 3. Run the following commands to stop and drop the database: <code>su <Vertica User Name> -c "/opt/vertica/bin/adminTools -t stop_db -d <Database Name> -p <Vertica Database Password> -F"</code> <code>su <Vertica User Name> -c "/opt/vertica/bin/adminTools -t drop_db -d <Database Name>"</code> 4. Perform the post-installation steps again to create the database.

Symptom	During post install Vertica database not getting created.
Description	During post installation, after typing the details to create Vertica database, the browser gets stuck even after clicking Next .
Resolution	Clear the web browser cache, reload the page, and perform the post install steps again.

Symptom	Vertica database is not getting created.
Description	<p>In typical installation scenario, while performing post installation, the Vertica database is not getting created.</p> <p>In Custom or distributed installation scenario, the CreateVerticaDatabase.sh script fails to create the Vertica database.</p> <p>The above issues is because the port 4803 is not free and is used by other applications.</p>
Resolution	<p>To resolve this issue, follow these steps:</p> <ol style="list-style-type: none"> 1. Verify if the /tmp/4803 folder is present or not. If present, check if any other applications are using this port. 2. If no other application is using this port then stop the database by running the following command as root user: <pre>su <Vertica Super User> -c "/opt/vertica/bin/adminTools -t stop_db -d pmdb -p <Vertica Database Password> -F"</pre> 3. Drop the database by running the following command as root user: <pre>su <Vertica Super User>-c "/opt/vertica/bin/adminTools -t drop_db -d pmdb"</pre> 4. If the /tmp/4803 directory is owned by Vertica user remove the directory by running the following command: <pre>rm -rf /tmp/4803</pre> <p>If the /tmp/4803 directory is owned by the non-vertica user, check with System Administrator and remove it.</p> 5. Create the Vertica database using the CreateVerticaDatabase.sh script (for distributed scenario) or perform post-installation steps (for typical scenario).

Symptom	Error: Multiple commands cannot be active on the same connection
Description	The following error message is seen:

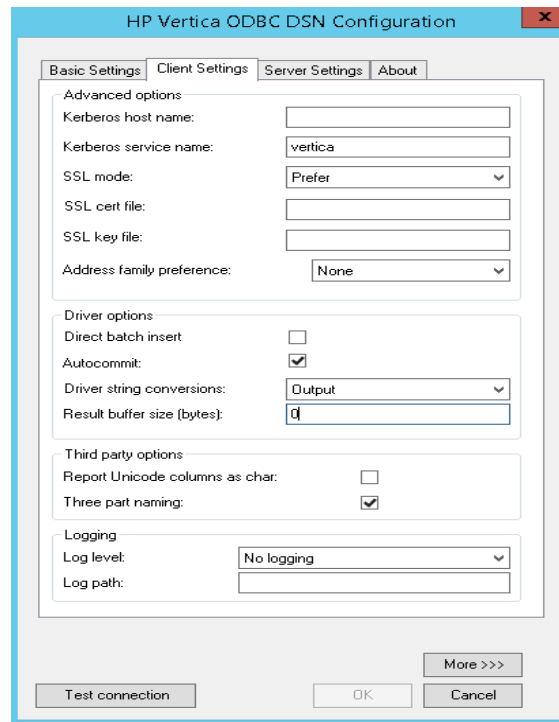
An error occurred during query preparation: Multiple commands cannot be active on the same connection. Consider increasing ResultBufferSize or fetching all results before initiating another command.

Resolution

To resolve this issue, follow these steps:

To edit the DSN configuration, log on to HPE OBR component systems installed on Windows.

1. Click **Start > Control Panel** and then click **System and Security**.
2. Click **Administrative Tools**.
3. Double-click **ODBC Data Sources (64-bit)**.
4. Click **System DSN** tab and then click the DSN that you have configured.
5. Click **Configure**. The HP Vertica ODBC DSN Configuration window is displayed.
6. Click **Client Settings** tab.
7. In **Driver options**, type the value as 0 for Result buffer size [bytes]. Click **OK**.



To edit the odbc.ini configuration file, log on to HPE OBR system installed on Linux.

1. Go to the location `$PMDB_HOME/config/`.
2. Open the `odbc.ini` file and add the parameter `ResultBufferSize = 0`.
3. Save and exit the file.

Symptom	Restarting Postgres service displays warning information in Linux
Description	<p>While restarting the Postgres service during post install, the following warnings are displayed:</p> <p>Restarting PostgreSQL 9.4:</p> <p>WARNING --> PERL_INSTALL_PATH is not set in /opt/HP/BSM/Postgres/etc/sysconfig/plLanguages.config file</p> <p>WARNING --> PYTHON_INSTALL_PATH is not set in /opt/HP/BSM/Postgres/etc/sysconfig/plLanguages.config file</p> <p>WARNING --> TCL_INSTALL_PATH is not set in /opt/HP/BSM/Postgres/etc/sysconfig/plLanguages.config file</p>
Resolution	You can ignore the warnings and move ahead with the HPE OBR configurations.

HPE OBR Uninstallation Issues

Symptom	After Uninstalling HPE OBR, Reinstall Fails (Windows only)
Description	When you reinstall HPE OBR on a Windows system, the installer fails to launch and displays a Scripting Host not Found error.
Resolution	<p>This error is encountered when the path environment variable is corrupted in a Windows system. Add the %systemroot%\System32 string to the path environment variable by performing the following steps:</p> <ol style="list-style-type: none"> 1. Right-click My Computer, and then click Properties. 2. Click the Advanced system settings, and then click Advanced tab. 3. Click Environment Variables. 4. In the System Variable group, select Path. 5. Click Edit and add the string %systemroot%\System32 if missing.

Symptom	After reinstalling a collector on a system, HPE OBR fails to communicate with the collector
Description	<p>If you uninstall a collector and reinstall it on a system, HPE OBR fails to communicate with the collector and error messages appear when you try to configure the collector in the Administration Console.</p> <p>You can occasionally experience this issue even after installing the collector for the first time.</p>

Resolution	<p>To resolve this, manually import the certificate from the HPE OBR system to the collector system by following these steps:</p> <ol style="list-style-type: none"> 1. Log on to the collector system. 2. Run the following command on the command prompt and note down the ID displayed: <code>ovcoreid</code> 3. Log on to the HPE OBR system. 4. Run the following command on the command prompt: <code>ovcm -issue -file <file> -name<node name>-coreid<core_ID></code> In this instance, <file> is the name of the certificate file that you want to manually import to the collector system; you must specify the file name with complete path to the directory where you want to store the file. <node name> is the FQDN of the collector system. <core_ID> is the ID that you noted in step 2. The command prompts for a password. If you do not want to use a password, press Enter without typing anything. 5. Transfer the certificate file to the collector system. 6. Log on to the collector system. 7. Run the following command: <code>ovcert -importcert -file<file></code>
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Content Pack Installation Issues

Symptom	Content Pack Installation Fails
Description	When installing the Content Packs, the installation process fails, with ERROR Code 51 with no information for failure in the logs. This may be because the ovc services are not up and running.
Resolution	<p>Perform the following steps to avoid content pack installation failure:</p> <ol style="list-style-type: none"> 1. Check status of your ovc services. To check the status, go to command prompt, type <code>ovc</code>. The following error message is displayed if ovc is down.

```
C:\Users\Administrator>ovc
(ctrl-111) Ovc is not yet started.
```

2. Start the ovc services which are down.
To start, type `ovc -start`.

```
C:\Users\Administrator>ovc -start
```

3. Type `ovc`, to ensure the state of ovc is up and running as shown.

```
C:\Users\Administrator>ovc
pubbcb      OU Communication Broker      CORE      <3696>    Running
ovcd        OU Control                    CORE      <3968>    Running
ovconfd    OU Config and Deploy          COREXT    <3288>    Running
ovcs       OU Certificate Server          SERUER    <4452>    Running
```

Symptom	Content Packs installation hangs (on Linux only)
Description	Content pack is in the state of <i>Installation Started</i> for more than 1 hour.
Resolution	<p>To resolve this issue, the SAPBOBJEnterpriseXI40 service should be restarted. Perform the following steps:</p> <ol style="list-style-type: none"> 1. Log on to the HPE OBR system. 2. Run the following command: <code>Ps -eaf grep packagemgrSilent</code> 3. Note down the process id and run the following command: <code>kill -9 <processid></code> 4. Go to the location <code>/etc/init.d</code>. 5. Run the following commands: <code>service SAPBOBJEnterpriseXI40 stop</code> <code>service SAPBOBJEnterpriseXI40 start</code> 6. Uninstall the Content pack which is in the started mode and start the Content pack installation again.

Symptom	Reinstallation of Content Packs Fails on Windows
Description	Reinstallation of Content Packs fails on Windows.
Resolution	<p>Follow these steps:</p> <ol style="list-style-type: none"> 1. Check the <code>%pmdb_home%/stage/failed_to_load</code> folder and look for files with the names of stage tables related to the Content Pack that you are not able to reinstall. You can find stage table names in the <code>%pmdb_home%/packages/CoreContentPack.ap/CoreContentPack.sql</code> file. Identify the files with names that contain the name of a stage table that is


	<p>related to the Content Pack that you want to reinstall and then delete them.</p> <p>2. Start the reinstallation process again.</p>
--	---

Symptom	Installation of Content Packs Failed with exit code 25
Description	If HPE OBR is installed on Windows and the DSN is not configured for Vertica database connection then installing the content packs fails with exit code 25.
Resolution	To configure DSN on HPE OBR system installed on Windows to connect to Vertica database, see <i>Configuring DSN on Windows for Vertica Database Connection</i> chapter in <i>HPE Operations Bridge Reporter Configuration Guide</i> .

Content Pack Uninstallation Issues

Symptom	Content Pack Uninstallation Fails
Description	<p>When uninstalling the Content Packs, the process fails and the following error message is displayed in the %PMDB_HOME%\log\trend.log file:</p> <p>SQL Anywhere Error -210: User 'pmdb_admin' has the row in '<table_name>' locked</p> <p>This failure occurs when one or more database connections have a shared lock on a database stage table.</p>
Resolution	<p>To verify if the tables are locked, perform the following steps:</p> <ol style="list-style-type: none"> 1. Open the Interactive SQL Java console. 2. In the Connect dialog box, on the Identification tab, select Supply user ID and password. 3. Type the user name and password, click OK. 4. Under SQL Statements, type <code>commit</code>, click Execute all SQL statement(s) to run the command. 5. Type <code>sp_iqlocks</code>, click Execute all SQL statement(s) to run the command. <p>If locked tables still exist, other SQL sessions might be open that you must close. If there are no locked tables, you can proceed with uninstalling the Content Packs.</p>

Symptom	No right to access data in this Universe error
Description	When you upgrade an HPE OBR Content Pack, the Universe connections are

	<p>recreated. If you have specific user access levels enabled, you must re-assign the access after completing the upgrade.</p> <p>By default, the administrator will have complete access to the Universe connections. You may see the following error if the user access levels are not enabled:</p> <div data-bbox="412 415 1029 661" style="border: 1px solid gray; padding: 5px;"> <p style="background-color: #e6f2ff; margin: 0; padding: 2px;">Refreshing Data</p> <div style="display: flex; align-items: center; margin-top: 5px;">  <p style="font-size: small; color: #0056b3;">You do not have the right to access data in this universe. See your BusinessObjects administrator. (Error: WIS 00505)</p> </div> <div style="text-align: right; margin-top: 10px;"> <input type="button" value="OK"/> </div> </div>
<p>Resolution</p>	<p>If you have applied access restriction at each user or group level other than administrator user, you must grant same access restrictions again for the universe connection.</p> <p>For more information about enabling user access levels, see the SAP BusinessObjects documentation available at <a href="http://<Host DNS>:8080/CmcApp/help/en/administration/html/default.htm">http://<Host DNS>:8080/CmcApp/help/en/administration/html/default.htm</p>

Chapter 4: Troubleshooting Administration Console Issues

The HPE OBR Administration Console is a web-based monitoring tool that you can use to monitor various components of HPE OBR, such as data collection, data processing, database, services, and so on. If a problem occurs, appropriate alerts are displayed on the Administration Console.

This section of the guide covers how to troubleshoot the alerts that appear on the Administration Console. In addition, this section also covers some of the commonly encountered problems during data collection, data reconciliation, data processing, or while performing certain administrative tasks.

The Home page of the Administration Console gives you an overall view of the status of HPE OBR, its associated services, the database, and the host platform.

When a problem occurs with any HPE OBR component, the Home page displays an alert icon so that you can investigate and take appropriate action.

This section of the guide covers the following HPE OBR-related alerts and the steps you must perform to resolve them:

- [Administration Console Log on/Launch Issues](#)
- [Understanding Data Collection Alerts](#)
- [Understanding Service Alerts](#)
- [Understanding Database Alerts](#)
- [Understanding Orchestration Alerts](#)

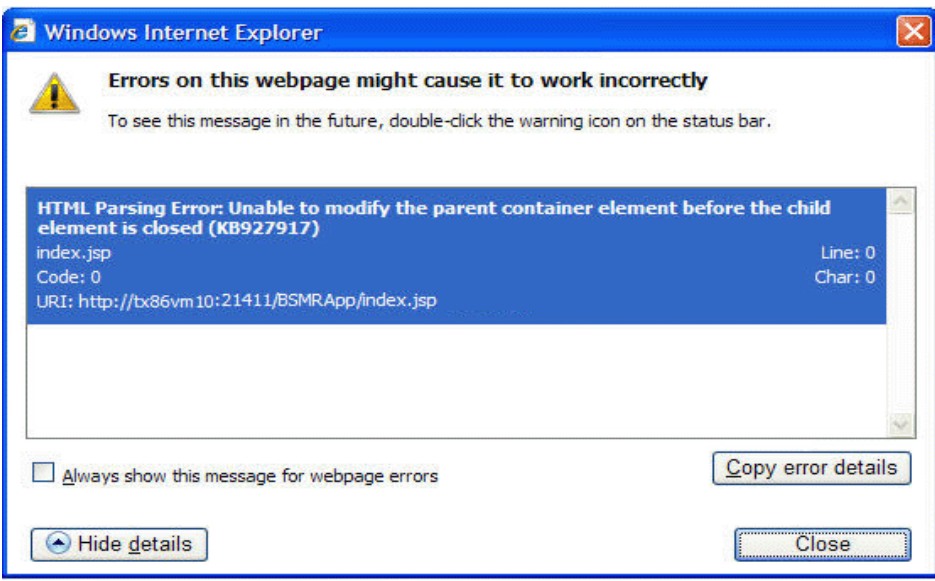
Administration Console Log on/Launch Issues

Symptom	Unable to Log on to the Administration Console
Description	After entering the user credentials in the Administration Console and clicking Log in , the following error message is displayed:

	
Resolution	Clear the web browser cache, reload the page, and perform the steps again.

Symptom	After installation, user is unable to perform post-install steps
Description	After installation, when you click Next in the console, the subsequent page does not load despite enabling JavaScripts to run.
Resolution	<p>This occurs when the system date on the HPE OBR system is much older than that of the ESX (in case of a VM). In such a scenario, the Tomcat server does not allow any requests from the client. Hence, it is always advisable to update the system date to current and install.</p> <p>Perform the following steps:</p> <ol style="list-style-type: none"> 1. Change system date to current. 2. Apply the permanent license. <ul style="list-style-type: none"> When the system date is changed by more than three months, the license expires. 3. Restart Administration service, Tomcat and SAP BusinessObjects servers. 4. Log on and perform the post configuration again.

Symptom	Error Seen in Administration Console
Description	The Administration Console displays the following Windows error message:

	
Resolution	Clear the web browser cache, reload the page, and perform the steps again

Symptom	Administration Console Web Page Error
Description	<p>When you log on or browse through the Administration Console, the following error message is displayed on the web page:</p> <p>500 Internal Server Error:</p>
Resolution 1	Check the BSMRApp.log file for duplicate id exception.
Resolution 2	This error occurs because of duplicate IDs that were created for the same web page. To resolve this, clear the web browser cache and refresh the page.
Resolution 3	<p>Restart the Administrator service as follows:</p> <p>Windows:</p> <ul style="list-style-type: none"> • Go to Start > Run, type <code>services.msc</code>. • Right-click on HPE_PMDB_Platform_Administrator and click Restart. <p>Linux:</p> <p>Run <code>service HPE_PMDB_Platform_Administrator restart</code>.</p>
Resolution 4	<p>On Linux only: You must make sure that the DISPLAY is not set.</p> <ol style="list-style-type: none"> 1. Run the command <code>env</code> and check if DISPLAY is set. 2. If the DISPLAY is set, run the following command: <code>unset DISPLAY</code>

	<p>3. Run the following commands to stop and start the Administrator service:</p> <pre>service HPE_PMDB_Platform_Administrator stop</pre> <pre>service HPE_PMDB_Platform_Administrator start</pre>
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Symptom	Internet Explorer 9 Fails to Launch the Administration Console
Description	HPE OBR Administration Console does not launch with Internet Explorer 9.
Resolution	Launch the Administration Console after opening Internet Explorer in the Compatibility Mode.

Symptom	Unable to log on to Administration Console
Description	<p>When you log on to the Administration Console with the Administrator privileges, the following error message is displayed on the web page:</p> <p><i>Login Error: User does not have permission to access Administration Console.</i></p> <p>This may appear if the log on credentials are not typed correctly or config.prp file is corrupted.</p>
Resolution	<p>Log on to the Administration Console again by typing the username and password. If the problem still occurs then to resolve this symptom, follow these steps:</p> <p>Windows:</p> <ul style="list-style-type: none"> • Go to Start > Run, type <code>services.msc</code>. • Right-click on HPE_PMDB_Platform_Administrator service and select Stop. • Go to the location where you have taken the backup of config.prp file and copy the backup to the config.prp file location: <code>%PMDB_HOME%\data\config.prp</code>. • Go to Start > Run, type <code>services.msc</code>. • Right-click on HPE_PMDB_Platform_Administrator and select Start. • Log on to the Administration Console. <p>Linux:</p> <ul style="list-style-type: none"> • Run the following command: <pre>service HPE_PMDB_Platform_Administrator stop</pre> • Go to the location where you have taken the backup of config.prp file and copy the backup to the config.prp file location: <code>\$PMDB_HOME/data/config.prp</code>. • Run the following command: <pre>service HPE_PMDB_Platform_Administrator start</pre> • Log on to the Administration Console.

Symptom	Connection to RTSM Server through Administration Console Fails
Description	<p>When the user changes the application root context in BSM9.2x, test connection fails. BSMRApp.log shows following message:</p> <p>Failed to connect with <code>http://<HostName>:21212/setup1/axis2/services/UcmdbService</code> for CMDB, org.apache.axis2.AxisFault: Service not found operation terminated.</p>
Resolution	<p>Follow these steps in HPE OBR Server:</p> <ol style="list-style-type: none"> 1. Edit config.prp file located at %PMDB_HOME%/data/config.prp (Windows), \$PMDB_HOME/data/config.prp (Linux) 2. Modify ucmdbservice.url=/axis2/services/UcmdbService to ucmdbservice.url=/setup1/axis2/services/UcmdbService (assuming new root context is setup1) <p>Follow these steps in BSM System:</p> <ol style="list-style-type: none"> 1. After you have changed the root context from BSM/jmx-console, stop the server and edit the following configuration files. Assume that your new root context is <i>setup1</i>. 2. Edit the file ..\HPBSM\odb\deploy\axis2\WEB-INF\web.xml and add the following lines: <pre><init-param> <param-name>axis2.find.context</param-name> <param-value>>false</param-value> </init-param></pre> 3. Edit the file ..\HPBSM\odb\deploy\axis2\WEB-INF\conf\axis2.xml and add the following line: <pre><parameter name="contextRoot" locked="false">setup1/axis2</parameter></pre> 4. Restart the server.

Symptom	SAP BusinessObjects BI Launch pad log on from VM Fails
Description	<p>After launching the SAP BusinessObjects Launch pad from the Administration Console on a virtual machine, log on fails despite providing correct user credentials.</p>
Resolution	<p>This problem occurs if HPE OBR is installed on a virtual machine and at the time of installation, the host name on the virtual machine is not correctly set. The HPE Software installer configured SAP BusinessObjects using the incorrect host name. However, the installer used correct host name in the %PMDB_HOME%/data/config.prp file. Ideally, the installer should use the same host name across all components. To resolve this problem, perform the following steps:</p>

	<ol style="list-style-type: none"> 1. Click Start and type Central Configuration Manager in Search. The Central Configuration Manager window opens. 2. Right-click Apache Tomcat 5.5.20, and then click Stop to stop the Tomcat service. 3. Right-click Server Intelligence Agent (OBR) and then click Stop to stop the SIA service. 4. Right-click Server Intelligence Agent (OBR) and then click Properties. The Server Intelligence Agent (HOML01GEATON) Properties dialog box opens. 5. On the Configuration tab, select the Change Cluster Name to check box, and then type the new name of the virtual or physical machine. Click OK. 6. Right-click Server Intelligence Agent (OBR) and then click Start to restart the SIA service first. 7. Right-click Apache Tomcat 5.5.20 and then click Start to restart the Tomcat service next. Close the Central Configuration Manager window. 8. In the Administration Console, click Administration > SAP BOBJ. The SAP BusinessObjects page opens. 9. Click BI Launch pad. The BusinessObjects Launch pad Login page appears.
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Symptom	SAP BusinessObjects BI Launch pad and CMC Fails to Launch from Administration Console
Description	The links provided in the HPE OBR Administration Console fail to launch the HPE OBR Launch pad and Central Management Console (CMC). This might occur because the Fully Qualified Domain Name (FQDN) of the HPE OBR host system was unavailable or failed to update.
Resolution	<p>In the HPE OBR system, perform the following steps:</p> <ol style="list-style-type: none"> 1. Go to the path {PMDB_HOME}\data 2. Open the <code>config.prp</code> file and check if the <code>bo.cms</code> parameter has the fully qualified name of the HPE OBR system

Understanding Data Collection Alerts

The home page of the Administration Console monitors and displays the status of the data collected by HPE OBR from the various data sources, such as Runtime Service Model (RTSM), HP Operations Manager (HPOM), Business Service Management (BSM) database, and HP Performance Agent (PA).

Following is the image of Collection Status Pane:

	Total		
RTSM	1	0	0
PA	32	4	13
ProfileDB	5	0	0

Two types of collection status information are displayed in the Collection Status pane of the home page, as indicated by the following icons:

- Indicates that the collection from the specific data source failed.
- Indicates that the collection never started from the specific data source.

For detailed information about the collection status, you can click the hyperlink of the data source type in the Collection Status pane to open the respective data source page. For example, clicking RTSM opens the Service Definition page.

This section of the guide explains the possible problems that might cause the collection to fail and the steps you must take to resolve these problems.

Data Collection Issues

Symptom	Data Collection not Started or Failed
Description	The Collection Status pane on the home page lists the RTSM or HPOM data source in the column. This indicates that the topology collection never started from these data sources.
Resolution	<p>The data source that you are trying to connect to might be down and no connection is established. To resolve this problem, perform the following steps:</p> <ol style="list-style-type: none"> 1. Check the connection status: <ol style="list-style-type: none"> a. RTSM, HP OM <p>In the Administration Console, go to the Data Source Configuration > Topology Source page to check the status for the RTSM or HPOM data source.</p> b. ProfileDB, OMi, HPOM <p>In the Administration Console, go to the Data Source Configuration > BSM/OMi > ProfileDB page to check the status for the ProfileDB data source. Similarly, for Operations Management i (OMi) software, go to the OMI page and for HPOM, go to the Operations Manager page.</p>

	<p>c. Click Test Connection to test the data source connection (double check the credentials using the configure option). In case the Test Connection check fails for any of the above scenarios, see the "Troubleshooting Data Source Issues" on page 91 section.</p>
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Symptom	Data Collection Failure across all Configured Nodes
Description	Data collection in HPE OBR fails with an address already in use error logged in the topologycollector.log file.
Resolution	<p>This error occurs when the number of TCP/IP ports used exceeds the default value of 5000. To resolve this problem, you must make changes in the Windows Registry. Follow these steps:</p> <ol style="list-style-type: none"> 1. Click Start > Run. The Run dialog box opens. 2. In the Open box, type regedit. The Registry Editor window opens. 3. On the left pane, <i>HKEY_LOCAL_MACHINE > SYSTEM > CurrentControlSet > Services > Tcpip</i>, and then click Parameters. 4. On the right pane, right-click anywhere, point to New, and then click DWORD Value to add a new entry. Add the following entries: <ul style="list-style-type: none"> ■ MaxUserPort = 65535 (decimal) ■ MaxFreeTcbs = 65535 (decimal) ■ MaxHashTableSize = 65535 (decimal) ■ TcpTimedWaitDelay = 30 (decimal) <p>Restart the system after making changes in the Registry Editor.</p>

Troubleshooting Data Collection Problems

Symptom	PostgreSQL Query Performance Degrades due to Lack of Proper Statistics Gathering
Description	The PostgreSQL slows down and the query performance also degrades due to lack of proper statistics gathering.
Resolution	<p>To resolve this problem, perform the following steps:</p> <ul style="list-style-type: none"> • From the {PMDb_HOME}/lib folder, open the trendtimer.sched file. • Enable the following query by removing the # sign:

	<pre>{PMDB_HOME}/bin/mgmtsqlexecutor -sqlscript {PMDB_HOME} /scripts/vacuum_postgres.sql</pre>
--	--

Symptom	No Data or Metadata Movement in HPE OBR
Description	Data movement does not occur and a "corruption detected" message is displayed when an attempt is made to verify the status (using the <code>ovc -status check</code> command).
Resolution	Restart the system.

Symptom	No Data Collection due to Remote Poller Exception
Description	Policy Owner reports an issue when Remote Poller is distributing the policy. Remote Poller sync does not occur for the specific domain and data collection does not initiate.
Resolution	<p>Perform the following steps to resolve the issue:</p> <ul style="list-style-type: none"> • Enable DEBUG mode for RemotePoller in the following file: <code>{PMDB_HOME}/config/BSMRLogConfigClient.xml</code> • Run the following collection configuration command: <pre>collection_config -collect {PMDB_HOME}/lib/<*_DBCCollector.xml> -cp <ETL Package name></pre> <p>Example</p> <pre>collection_config -collect {PMDB_HOME}/lib/OM_DBCCollector.xml -cp ETL_OM</pre> • Open the RemotePoller log and search for the Header xml that is named in this pattern—<code>shr-xxxxxxxxxxxxxxxxx_header.xml</code>— identify the file including its path. • Run the following command: <pre>ovpolicy -install -file <absolute path of the header xml file> - ovrg server</pre> <p>The following output is generated:</p> <pre><Cannot install because owner of the policy is xxx></pre> • Open the header xml and obtain the content of policy owner tag. • Run the following command: <pre>ovpolicy -setowner -ovrg server -polid <shr-xxxxxxxxxxxxxxxxx xxx></pre> • Run the following command in the prompt: <pre>ovcreg -add {PMDB_HOME}/config/shr.xml</pre> • Run the following collection config command:

	<pre>collection_config -collect {PMDB_HOME}/lib/OM_DBCollector.xml -cp ETL_OM</pre>
--	---

Symptom	No Data Collection from Profile DB/Management DB/OMi Event Data source
Description	When changes are made to the Profile DB/Management DB/OMi Event database collection configurations for more than once, it leads to piling up db_poller_map (Postgres) table with invalid or old entries. Remote poller sync fails and database domains are not discovered in {PMDB_HOME}/config/ds/db_0_domainmap_0_local.csv.
Resolution	<p>To resolve this problem, perform the following steps:</p> <ul style="list-style-type: none"> • Log on to Postgres database using PgAdmin. • Identify the invalid domain map IDs: <pre>SELECT * FROM db_poller_map where db_fk NOT IN (SELECT db_id FROM dict_db_ds)</pre> • Delete the invalid domain map IDs: <pre>DELETE FROM db_poller_map where db_fk NOT IN (SELECT db_id FROM dict_db_ds)</pre> • Run the following local poller utility commands from the console (Linux shell or Microsoft Windows Command Prompt). <ul style="list-style-type: none"> ◦ remotepollerutility -syncds -type DB -pollername local ◦ remotepollerutility -syncpolicy -type DB -pollername local • Verify the updated entries in {PMDB_HOME}/config/ds/db_0_domainmap_0_local.csv

Symptom	HPE OBR Reconciliation Infinitely Reprocesses Failed-to-Reconcile Files and Degrades System Performance
Description	HPE OBR data reconciliation step endlessly reprocesses files that failed to reconcile and utilizes massive system resources.
Resolution	<p>HPE OBR Reconciliation reprocesses files in the \$PMDB_HOME\stage\failed_to_reconcile folder for three days. After three days, HPE OBR moves the files to the \$PMDB_HOME\stage\failed_to_reconcile\archive folder and stops reprocessing them. If you want to process the files again, manually move them back to the \$PMDB_HOME\stage\failed_to_reconcile folder.</p> <p>You can also change the default days in the property values from the folder \$PMDB_HOME\collect\property.</p> <p>For Example: dbcollector.fail.files.reprocess.interval.mins=4320 and reconcile.fail.files.reprocess.interval.mins=4320</p>

Symptom	HPE OBR Collector Infinitely Reprocesses Failed-to-Process Files and Degrades System Performance
Description	HPE OBR Collector reprocesses files in the \$PMDB_HOME\collect\temp folder for three days. After three days, HPE OBR moves the files to the \$PMDB_HOME\collect\temp\archive folder and stops reprocessing them. If you want to process the files again, manually move them back to the \$PMDB_HOME\collect\temp folder.
Resolution	You can also change the default days in the property values from the folder \$PMDB_HOME\collect\property. For Example: <code>dbcollector.fail.files.reprocess.interval.mins=4320</code> and <code>reconcile.fail.files.reprocess.interval.mins=4320</code>

Symptom	Data Gaps in Reports due to no Data Collection from Nodes
Description	HPE OBR reports show data gaps when data is not collected from a node or when a node is a newly added. When collection for a node resumes after an outage (node is down, or connection issues, or connection disable/enable through Performance Agent data source page), the HPE OBR Collector collects data from the last point within the max-history limit. When a new node added to HPE OBR, the HPE OBR Collector collects data based on the <i>init</i> history configuration. By default, after the first <i>init</i> history data processing, data aggregation processes data for only the last two days.
Resolution	By default, HPE OBR aggregates data from nodes for only the last two days. To aggregate data older than two days, run the hourly and daily aggregation commands manually using the following options: <code>aggregate config=<xml file name> processall=true execute=true</code> (The XML file is available in the PMDB_HOME/scripts folder) Example: <code>aggregate config= %PMDB_HOME%\scripts\SR_SM_CPU_SH_SM_CPU_Hourly_CPU_Details.xml processall=true execute=true</code>

Symptom	No Data Collection from Network Performance Server
Description	Data collection of both topology and fact from Network Performance Server (NPS) stops, but files keep accumulating in the %pmdb_home%\extract\temp folder. The <code>dbcollector.log</code> file reports the following error: Error -210: User 'another user' has the row in 'd_ComponentTopology' locked This occurs because the <code>d_ComponentTopology</code> table is being updated at exactly the same time when HPE OBR queries for data.

Resolution	In NPS, modify the update time of the d_ComponentTopology table to a different value. Otherwise, in HPE OBR, from the PMDB_HOME/config/collection.properties file, set the parameter relative.schedule.type=true and restart the data collection.
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Symptom	No Data Collection in HPOM Topology from Host resulting in Empty Reports
Description	Data collection from a host does not occur even though it is discovered and configured for collection. When HPE OBR is unable to connect to the HP Performance Agent during the dimension collection run that occurs every 12 hours (720 minutes), fact collection does not occur and reports do not show any data.
Resolution	Decrease the default dimension collection interval value of 12 hours (720 minutes). In the {PMDB_HOME}/config/collection.properties file, decrease the value of the sn.dim.collection.interval.mins property to a number higher than and a multiple of 60.

Symptom	No Data Collection from Host and Empty Reports
Description	Data collection from a host does not occur even though it has been discovered and configured for collection. The issue might be that the connection to CODA for that host has been lost resulting in data collection failure. In such cases, Collection has a feature called blacklisting that marks a node when connection to the same fails while hourly collection is happening. Once marked, after every 2 retries at a particular run interval, the same is doubled for the next couple of runs. This continues till the run frequency reaches 24 hours after which it remains the same. So collection from that host is initiated once a day only. During these runs, at any time if the host is reachable again, then the run interval is reverted to the initial collection schedule frequency of the host (1 hour by default). Also, the list of blacklisted hosts can be seen at any point by connecting to the Java JMX console for Collection Service at port 21409 under the Collection Administration Mbeans section.
Resolution	Ensure that the node is reachable and responding and also that the CODA services are running on the same. Once done, restart Collection Service on the HPE OBR collector.

Symptom	Error Message in the aggregate.log File for Procedure not found
Description	The aggregate.log file (available under the \$PMDB_HOME/log directory on Linux and the %PMDB_HOME%\log directory on Windows) shows the following error messages: Procedure 'xxx-xxx-xxxx-xxx' not found Failed to execute aggregate SQL Completed aggregate <XML_file> with error
Resolution	To resolve this problem, log on to the HPE OBR system as administrator or root, and then run the following command:

	<pre>aggregate config=<XML_file> regenerate=true</pre> <p>where, <XML_file> is the file name displayed in the error message.</p>
--	--

Symptom	Missing Data Source Metadata Files
Description	<p>Missing Data Source Metadata Files</p> <p>Windows: %PMDB_HOME%/config/ds folder</p> <p>Linux: \$PMDB_HOME/config/ds folder</p>
Resolution	<ol style="list-style-type: none"> 1. The data source metadata CSV files are of the form pa*.csv, cmdb*.csv, sn*.csv and db*.csv 2. Ensure that all expected data sources are configured by verifying through the Administration Console. 3. Run the command <code>ovconfchg -edit</code> and check whether the following entries are present in the configuration settings page: <ul style="list-style-type: none"> o Windows: <pre>[sec.cm.client] CERTIFICATE_SERVER=<server> [sec.core] CORE_ID=82553e92-dbd2-7566-0dd9-f9a20a672df8 [sec.core.auth] MANAGER=<server> MANAGER_ID=82553e92-dbd2-7566-0dd9-f9a20a672df8</pre> o Linux : <pre>[ctrl.env] LD_LIBRARY_PATH=:/opt/HP/BSM/Sybase/IQ-15_4/lib64:/opt/HP/BSM/JRE64/lib/amd64/server:/opt/HP/BSM/Sybase/shared/JRE-6_0_24_64BIT/lib/amd64/server:/opt/HP/BSM/JR64/lib/amd64:/opt/HP/BSM/JRE64/lib/amd64:/opt/HP/BSM/JRE64/lib/amd64/xawt:/opt/HP/BSM/Postgres/lib:/opt/OV/lib64: PATH=/opt/HP/BSM/JRE64/bin:/usr/kerberos/sbin:/usr/kerberos/bin:/usr/local/sbin:/usr/local/bin:/sbin:/bin:/usr/sbin:/usr/bin:/opt/HP/BSM/PMDB/bin:/opt/OV/bin:/opt/OV/lib64:/opt/HP/BSM/Sybase/IQ-15_4/bin64:/root/bin</pre>

```

PMDB_HOME=/opt/HP/BSM/PMDB
[sec.cm.client]
CERTIFICATE_SERVER=<server>
[sec.core]
CORE_ID=26e40652-de97-7566-1f14-b683668d176a
[sec.core.auth]
MANAGER=<server>
MANAGER_ID=26e40652-de97-7566-1f14-b683668d176a
    
```

4. If the `ctrl.env` values are not set on Linux, run the following commands:

- a. `/opt/OV/bin/ovconfchg -ns ctrl.env -set LD_LIBRARY_PATH /opt/HP/BSM/Sybase/IQ-16_0/lib64:/opt/HP/BSM/JRE64/lib/amd64/server:/opt/HP/BSM/Sybase/shared/JRE-6_0_24_64BIT/lib/amd64/server:/opt/HP/BSM/JRE64/lib/amd64:/opt/HP/BSM/JRE64/lib/amd64:/opt/HP/BSM/JRE64/lib/amd64/xawt:/opt/HP/BSM/Postgres/lib:/opt/OV/lib64:`
- b. `/opt/OV/bin/ovconfchg -ns ctrl.env -set PATH /opt/HP/BSM/JRE64/bin:/usr/kerberos/sbin:/usr/kerberos/bin:/usr/local/sbin:/usr/local/bin:/sbin:/bin:/usr/sbin:/usr/bin:/opt/HP/BSM/PMDB/bin:/opt/OV/bin:/opt/OV/lib64:/opt/HP/BSM/Sybase/IQ-16_0/bin64:/root/bin`
- c. `/opt/OV/bin/ovconfchg -ns ctrl.env -set PMDB_HOME /opt/HP/BSM/PMDB`

5. Run the command `ovc -status -level 8` and in the output check whether the `shrcb` component is listed.

```

shrcb   HPE OBR Policy call backs      shrcb   (3053) Running
-> START attempted at    Tue Apr 30 16:11:52 2013
-> Entered STARTING state at  Tue Apr 30 16:11:52 2013
-> Entered STARTED state at  Tue Apr 30 16:11:52 2013
    
```

Note: The component need not be running, but may be stopped or aborted. However, the listing should include the `shrcb` component. If this component is not listed, run the following command:

On Linux: `/opt/OV/bin/ovcreg -add /opt/HP/BSM/PMDB/config/shr_ux.xml`

On Windows: `%ovinstalldir%/bin/ovcreg -add %PMDB_HOME%/config/shr_win.xml`

6. When the above changes are made, run the `ovc -restart` command.

7. Run the `remotepollerutility -syncds -pollername local` command to sync all collection data sources to the local collector. To sync data sources to other remote collectors configured, run the same command by changing `local` to the name that was used to configure the remote collector in the Administration Console.

Symptom	Policy and Data Source Report Collector Error
Description	Policy and Data Source Report Collector Error
Resolution	<ol style="list-style-type: none"> 1. Check if the collector is reachable. From Administration Console, go to Data Source Configuration > Operations Agent. Select a host from the Host name column and click Test Connection. 2. Check if the certificate installation is correct by running the <code>ovcert -check</code> command.

Symptom	No Collection due to <i>OVCONFD</i> Service not Running
Description	<i>OVCONFD</i> service stops due to disk space full situation and does not start automatically once the space issue is resolved.
Resolution	<p>Run the following command.</p> <ol style="list-style-type: none"> 1. Check the status of the service. <code>ovc -status</code> 2. Check the status of <i>ovconfd</i> in the output. 3. If it is stopped, execute the START command. <code>ovc -start ovconfd.</code> <p>This will start the service and collection of data would continue.</p>

Symptom	Collection not occurring from Collector
Description	No dimension CSVs or Fact CSVs are available in <code>%PMDB_HOME%\collect</code> folder (Windows), <code>\$PMDB_HOME/collect</code> (Linux). No data is available in the reports for these hosts.
Resolution	<ol style="list-style-type: none"> 1. Check for connection-related issues to the collector from Administration > Collector Configuration page in the Administration Console. 2. Check <code>%PMDB_HOME%\log\remotepoller.log</code> file for Windows and <code>\$PMDB_HOME/log/remotepoller.log</code> for Linux and verify errors during data download from the collectors. 3. Check if <code>platform_poller_data_process</code> stream from <i>PMDB_Platform</i> is in error state or is yet to process the collected data. Log on to Administration Console and check the status of the above mentioned stream. 4. Check whether the collection policies are installed on the collector system.

Symptom	Fact Collection is Occurring and Data is Available at extract Folder but not picked by Streams
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Description	Fact CSVs are collected from the source by the collector and available at the following location %PMDB_HOME%\extract (Windows), \$PMDB_HOME/extract (Linux). But the corresponding Orchestration stream in the Administration Console shows the collect step status as not started.
Resolution	<p>The only reason it can happen is because the platform_poller_data_process stream from PMDB_Platform is in error state or is yet to process the collected data.</p> <p>If the process is running for a longer time, kill the process. If it is in error state, perform the following:</p> <ol style="list-style-type: none"> 1. Log on to Administration Console and check the status of the above mentioned stream. ABC stream will automatically process it next time.

Symptom	No Fact Collection despite configuring Service Definition
Description	Fact CSVs are not available at the following location %PMDB_HOME%\collect (Windows), \$PMDB_HOME/collect (Linux).
Resolution	<p>To resolve this problem, perform the following steps:</p> <ol style="list-style-type: none"> 1. Run <code>ovpolicy -list</code> and check whether the Configuration Management Database (CMDDB) collection policies are installed on the collector. Alternatively, you can also check for collection policy XMLs in <ul style="list-style-type: none"> Windows: %PMDB_HOME%\config\collection_policy folder Linux: \$PMDB_HOME/config/collection_policy folder 2. Verify whether dimension collection is occurring or not and whether there are any VIEW*NODEDOMAIN*csv in collect folder. 3. Log on to Administration Console and ensure that the platform_poller_ds_ process stream under PMDB_Platform group is not in error state. This is the stream that brings in all NODEDOMAINMAP csv from various collectors and then performs PA node distribution among collectors. 4. Also, ensure if any remote collectors are configured. If yes, PA data source distribution is appropriately done via the Administration Console for all collectors. Because, in case of local-only collector, all the PA nodes discovered during topology collection are automatically assigned to the local collector. But, even if a single remote collector is configured, the distribution of nodes is performed based on rules or manual assignment done by the administrator.

Symptom	No Dimension or Fact Collection despite Configuring Data Sources
Description	After configuring the respective data source through Administration Console (RTSM/HPOM), the respective dimension or fact CSVs are not collected by the collector.
Resolution	To resolve this problem, perform the following steps:

	<ol style="list-style-type: none"> 1. Check <code>topologycollector.log</code> file under the following folder location to check for obvious errors: Windows: <code>%PMDB_HOME%\log</code> Linux: <code>\$PMDB_HOME/log</code> 2. Check if the appropriate collection policies are installed on the collector by either checking for files in <code>%PMDB_HOME%\config\collection_policy</code> folder (Windows)/ <code>\$PMDB_HOME/config/collection_policy</code> (Linux) or by running the <code>ovpolicy -list</code> command. 3. Check for existence of <code>cmdb_0_*.csv</code> or <code>sn_0_*.csv</code> in <code>%PMDB_HOME%\config\ds</code> folder for Windows or <code>\$PMDB_HOME/config/ds</code> for Linux (depending on RTSM and OMSN configuration respectively) and verify that the details of the data source configured is correctly present in these files.
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Symptom	Collection not working after Operations Agent is Uninstalled
Description	Ensuring Continuous HPE OBR Collection on the System after Operations Agent is Uninstalled from a system where HPE OBR and Operations Agent coexisted
Resolution	<p>If Operations Agent is uninstalled, you must perform the following steps to ensure an error-free collection of data by the HPE OBR system:</p> <ol style="list-style-type: none"> 1. On the system where Operations Agent was uninstalled, run the following command: <code>ovcert -certreq</code> 2. Run the following command on the HPE OBR system: <code>ovcm -listpending -l</code> Note the request ID. 3. Run the following command on the HPE OBR system: <code>ovcm -grant <request ID from the earlier step></code> 4. Run one of the following commands: <ol style="list-style-type: none"> a. To verify the connectivity to the HPE OBR local collector: <code>ovdeploy -env PMDB_HOME -ovrg server</code> The value of the <code>PMDB_HOME</code> environment variable from the HPE OBR system appears. b. To verify the connectivity to the HPE OBR Remote Collector: <code>ovdeploy -env PMDB_HOME -ovrg server -host <remote collector hostname></code> The value of the <code>PMDB_HOME</code> environment variable from the HPE OBR Remote Collector appears.

Symptom	Data not getting processed from collect directory
Description	After the post install configuration and topology source configuration, data is piled up in the collect directory but the data does not get processed.
Resolution	Ensure that the Task Manager service is running.

Understanding Orchestration Alerts

To troubleshoot problems related to data processing, check the Orchestration Alerts table on the home page of the Administration Console. The 10 latest active data processing alerts encountered by the HPE OBR work-flow framework are displayed.

Figure 3: Orchestration Alerts

Stream Name ↕	Step Name	Message	Time
OM@OM_Facts_MessageCount	Procedure_Daily...	C:WINDOWSsystem32>"E:HP-SHRPMD\bin\sqlexecutor" -sql...	Jan 18, 2011 3:05:40 PM
Virtual_Env_Management@Facts_LogicalSystem	Procedure_Popul...	C:WINDOWSsystem32>"E:HP-SHRPMD\bin\sqlexecutor" -sql...	Jan 18, 2011 3:06:09 PM

Two types of alerts are generated by this workflow framework:

- Errors: This alert is generated when an active job stream fails to complete the execution process because of a serious error during the job. This halts the execution of the job stream.
- Maximum execution time exceeded: This alert is generated when a job is still running and fails to complete within the defined execution time frame.

Viewing Details of an Alert

To view details of the displayed alert, click the hyperlink in the Step Name column of the table. An alert details window opens.

Figure 4: Alert Details Window

Step Name Reconcile_data
Process Id 57192
State FINISHED
Status WARNING

Detail Message


PID:31892 Send msg Status -> WARNING Ensure that collection service is up and running. Please refer to collections log files for error/warning details.

Log File E:\HP-SHRPMD\log\transform.log
Command bin/collection_audit -step reconcil -type WLSTransaction -category WLSSPI_RPT_METRICS
Max Retries 8640
Remaining Retries 8640
Max Execution Time (Mins) 60
Start Time May 9, 2011 9:45:21 AM
End Time May 9, 2011 9:45:43 AM

In the alert details window, you can view the detailed error message, the command that was run when the error occurred, remaining and maximum number of retries, maximum execution time, and start and end time. If the job step continues to fail until the maximum number of retries is reached, the status of the stream will remain as error and will no longer be active. During the retry phase, if the maximum execution time is exceeded, the status of the stream changes to MAX_EXEC_TIME_EXCEEDED and will no longer be active. In this situation, the End Time will be displayed as NULL.

The alert details window does not appear for those alerts that are caused by maximum execution time exceeded. You cannot click the Step Name column for these alerts to open the details window. For more information on these alerts, check the Data Processing page.

Orchestration Alerts

Symptom	Orchestration Alert – ERROR (Max Exec Time Exceeded)
Description	On the Data Process Status page of the Administration Console, the Step Status column displays the  indicator for a particular job step. Checking the status of the job step shows the MAX_EXEC_TIME_EXCEEDED alert.
Resolution	<p>This alert is generated when the job step fails to complete executing within the defined execution time frame. To troubleshoot this type of error, perform the following steps:</p> <ol style="list-style-type: none"> 1. On the Data Process Status page, click the job step icon in the diagram to open a detailed message box about that job step. 2. Note the Process ID (PID) of the job step. 3. Browse to the %PMDB_HOME%\log (Windows), \$PMDB_HOME/log (Linux) folder and open the dw_abclauncher.log file. 4. Search for the PID in the log file. 5. Note the operating system PID of the job step. For example, an entry in the log file might look like: <pre>2010-11-23 02:50:12,522 INFO [com.hp.bto.dw.common.log.DwLog] - Started step 'DataLoad_Oracle_DiskSort' of stream 'Database_ Oracle@Facts_DiskSort' with Process ID = 119615[PID:35408]</pre> <p>In this example, the PID for the job step is 35408.</p> 6. Validate this operating system PID with an operating system utility to check whether the process is running or not. For example, you can check for the process in the Processes tab of the Windows Task Manager window. 7. If the process is listed as active in the Windows Task Manager, perform any of the following steps:

	<ul style="list-style-type: none"> ■ Wait for the job step to complete. ■ If the job step execution does not complete after a day or two or if there is a problem with the job step corresponding to the PID according to the log file, end the process using the operating system utility and contact HPE Support for assistance. <p>8. If the process is not listed in the operating system utility, wait for the workflow framework to rerun the job step. If the status continues to show Error, contact HPE Support.</p>
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Symptom	Orchestration Alert – ERROR (Max Retries Exceeded)
Description	On the Data Process Status page of the Administration Console, the Step Status column displays the ERROR indicator for a particular job step. Checking the status of the job step shows the ERROR alert.
Resolution	<p>This alert is generated when the job step failed to complete executing because of an error. To troubleshoot this type of error, perform the following steps:</p> <ol style="list-style-type: none"> 1. On the Data Process Status page, click the job step icon in the diagram to open a detailed message box about that job step. 2. Note the Max Retries and Remaining Retries fields. 3. If the Remaining Retries is zero, perform the following steps to abort the job stream: <ol style="list-style-type: none"> a. Click Start > Run. The Run dialog box appears. b. Type cmd in the Open field, and then press ENTER. The Command Prompt window appears. c. Type the following command to abort the job stream: <pre>abcBatchControl -abort -streamId <stream name></pre> <p>In this instance, <i><stream name></i> is the name of the job stream.</p>

Symptom	Orchestration Stream – Stage Always in Warning State
Description	Status of stage step in Orchestration stream is always in warning state. This occurs when the stage moves CSV files to %PMDB_HOME%/stage/failed_to_stage (Windows), \$PMDB_HOME/stage/failed_to_stage (Linux) if it encounters any error due to wrong data.
Resolution	When you see stage step in WARNING state, correct the data in the CSV files manually and put them back to %PMDB_HOME%/stage/failed_to_stage (Windows), \$PMDB_HOME/stage/failed_to_stage (Linux) so that data is moved during next run.

Symptom	Job Streams not Loading or Running
----------------	---

Description	After installing the content packs and configuring HPE OBR to collect data, you notice that the Data Processing page of the Administration Console does not display any active streams. The job streams are not loading or running.
Resolution	Ensure that the HPE_PMDB_Platform_Timer service is running.

Symptom	Unable to identify if the Job is running
Description	Unable to identify if the Job is running or track the job status.
Resolution	Follow these steps to resolve this issue: <ol style="list-style-type: none"> 1. Go to the location {PMDB_HOME}/log and check the BSMRAbcService.log. The Job Start Status will be logged in this log file. 2. Run the command <code>flink list</code>. This command will list the submitted Jobs.

Understanding Service Alerts


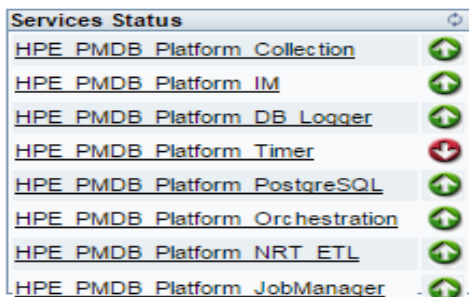
The Service Status pane on the Home page shows the  icon for the HPE OBR service status. This status indicates that the services are currently not running.

Figure 5: Service Status Pane on the Home Page



To investigate the problem further, you must check the Services page, where you can get the detailed information of the status of each HPE OBR service.

Figure 6: Services Page in the Administration Console


Service Name	Description
HPE_PMDB_Platform_Collection	PMDB Collection Framework Service
HPE_PMDB_Platform_IM	HPE Operations Bridge Reporter Internal Monitoring Framework
HPE_PMDB_Platform_DB_Logger	The HPE_PMDB_Platform_DB_Logger service consolidates FATAL errors in a single log file
HPE_PMDB_Platform_Timer	HPE OBR Timer Service to schedule data store jobs.
HPE_PMDB_Platform_PostgreSQL	Postgres Database Running
HPE_PMDB_Platform_Orchestration	HPE OBR Orchestration Service to schedule data stream jobs.
HPE_PMDB_Platform_NRT_ETL	HPE OBR NRT Service to schedule data stream jobs.
HPE_PMDB_Platform_JobManager	The HPE_PMDB_Platform_JobManager service manages the data processing jobs

In case of Error/Warning status against the HP PMDB Platform Collection, ensure adequate free disk space on the drive where HPE OBR is installed (at least 15% free space of total disk space).

If any of the service listed in the [Figure 6](#) shows error, restart the service using the Start/Stop link or the Windows Service panel. In case you have trouble restarting the service or in case the service goes down frequently, contact HPE Support.


Understanding Database Alerts

Using the home page of the Administration Console, you can monitor the status of the HPE OBR database connection. In the event of any problems, appropriate alerts are displayed in the following section of the home page:

- **Connectivity Status:** This pane displays the status of the Vertica database connection. In case the connection to the database cannot be established, the  status icon is displayed.

This section explains how to troubleshoot database-related alerts.

Database Alerts

Symptom	Database Connection Failure
Description	The Connectivity Status pane on the home page of the Administration Console shows the  icon for the database.
Resolution	Restart the Vertica database service from the services window. Note: If Vertica is installed on a remote system, you must restart Vertica database service on the remote system. The name of the Vertica service might be different from the one mentioned in the steps as it depends on the name that was defined when the service was first created in the remote system.

Administrator Console Other Issues

Symptom	Clicking the Next Button on the Post-Installation Wizard has no Effect
Description	The post-installation wizard does not respond when you click Next after creating database.
Resolution	Click F5 , and then click Next again.

Symptom	HPE OBR Server and Remote Collector Unable to Communicate Across Networks
Description	When the HPE OBR server and the Remote Collector are hosted on different networks, they are unable to communicate with each other.
Resolution	<p>Ensure that the outbound connections from both networks are open and inbound connection is restricted to a single port that the communication broker must listen to. Perform the following steps on the HPE OBR server and the Remote Collector to enable communication across networks:</p> <p>On the HPE OBR Remote Collector:</p> <ol style="list-style-type: none"> 1. From the Command Line Interface (CLI), run the following command: <code>ovconfchg -edit</code> 2. Add the following lines: <code>[bbc.cb]</code> <code>SERVER_PORT=<port_no></code> where, <i>port_no</i> is the port open for communication. 3. Restart the <code>bbc</code> service by running the following command: <code>ovc -restart</code> <p>On the HPE OBR server:</p> <ol style="list-style-type: none"> 1. From the Command Line Interface (CLI), run the following command: <code>ovconfchg -edit</code> 2. Add the following lines: <code>bbc.cb.ports]</code> <code>PORTS=<server_FQDN-1:port_no>;=<server_FQDN-2:port_no></code> where, <i>server_FQDN</i> is the HPE OBR Remote Collector's Fully Qualified Domain Name (FQDN) and <i>port_no</i> is the port open for communication. The port number must be the same as that configured on the HPE OBR Remote Collector. You can configure multiple collectors this way with different port numbers for different HPE OBR servers. 3. Restart the <code>bbc</code> service by running the following command:

<pre>ovc -restart</pre>	<p>After performing the above steps on both the HPE OBR server and the HPE OBR Remote Collector, configure the HPE OBR Collector and add it through the Administration Console. For more information, see the <i>HPE Operations Bridge Reporter Interactive Installation Guide</i>.</p> <p>Note: Proxy configuration is not required if at least one port is open for inbound communication. Otherwise, you must configure reverse channel proxy (RCP). For more information, refer the whitepaper <i>Configuring outbound-only communication with HP OpenView Operations for UNIX 8</i>.</p>
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Symptom	Content Pack Installation Hangs
Description	When installing content packs from Administration Console > Administration > Deployment Manager , the installation does not progress and spikes CPU utilization of the system.
Resolution	If the content pack installation hangs, locate the <i>datapipe_manager</i> system process and terminate it. The Administration Console > Administration > Deployment Manager will report that content pack installation had failed. Now, uninstall the content pack and begin installation again.

Symptom	HPE OBR Administration Console reports Connectivity Issues with Postgres Database
Description	The Postgres audit measure table is accumulated with millions of records that are not cleaned periodically. HPE OBR Administration Console becomes unresponsive and does not allow monitoring of the job streams details.
Resolution	To resolve this problem, perform the following steps: <ol style="list-style-type: none"> 1. Log on to Postgres database using PgAdmin. 2. Execute the following SQL statement on weekly basis. <pre>DELETE from audit_measure where md_process_id not in (select md_process_id from job_stream_step_rt)</pre>

Symptom	SQL Anywhere 12 Server Process Crashes
Description	The BOE120SQLAW service goes down after trying to insert the 'LONG' data into one of the auditing table columns and SAP BusinessObjects BI Launch pad reports are not accessible.
Resolution	Perform the following steps to resolve this problem: <p>Linux:</p> <ol style="list-style-type: none"> 1. Log on to the HPE OBR system as root user.

	<p>2. Run the following commands in the prompt:</p> <ul style="list-style-type: none"> ○ su - SHRBOADMIN ○ source \$BOBJEDIR/setup/env.sh ■ cd \$BOBJEDIR/SQLAW/Bin ■ dbisqlc <p>3. Log on to the SQL Anywhere AUDIT database with the following credentials:</p> <p>User ID: HPE OBR Password: <password> DB name: <HOSTNAME>BOE120_AUDIT Server: <HOSTNAME>BOE120_HPE OBR where HOSTNAME is the system name where HPE OBR is installed .</p> <p>4. Execute the following query. ALTER TABLE AUDIT_DETAIL ALTER Detail_Text long NVARCHAR</p> <p>Windows:</p> <p>1. Log on to the HPE OBR system.</p> <p>2. Run the following command in the prompt:</p> <p>dbisql</p> <p>3. Log on to the SQL Anywhere AUDIT database with the following credentials:</p> <p>User ID: <HOSTNAME> (For example: iwfv00310) Password: <password> DB name: BOE120_AUDIT Server: BOE120SQLAW_<hostname> (For example: BOE120SQLAW_iwfv00310)</p> <p>4. Execute the following query. ALTER TABLE AUDIT_DETAIL ALTER Detail_Text long NVARCHAR</p>
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Symptom	SAP BOBJ Tomcat Status is Down
Description	The Connectivity Status section in Administration Console displays the SAP BOBJ Tomcat status as Down while the Tomcat service is actually running on the SAP BusinessObjects system.
Resolution	Restart the SAP BOBJ Tomcat service on the SAP BusinessObjects system.

Symptom	Failed to save time zone information in database
Description	After completing the configuration of the remote Vertica database, while verifying the

	<p>configuration you may get the following error:</p> <p><i>“Failed to save time zone information in database”</i></p>
Resolution	<p>To resolve this problem, perform the following steps:</p> <ol style="list-style-type: none"> 1. Connect to Vertica database using the dbisql tool. 2. Execute the following query: <p>For GMT: insert into SHR_CONFIG(shr_key,shr_value) VALUES ('shr.time.zone', 'GMT');</p> <p>For Local: insert into SHR_CONFIG(shr_key,shr_value) VALUES ('shr.time.zone', local);</p>

Symptom	Auto discover does not update the FQDN of Profile database
Description	During the data source configuration with BSM, on clicking Discover Database the hostname of Profile database does not get updated with FQDN .
Resolution	<p>While performing the data source configuration for the Management database, ensure that you have typed a fully qualified domain name for the hostname.</p> <p>For more information on Management Database data source configuration, see <i>HPE Operations Bridge Reporter Configuration Guide</i>.</p>

Symptom	Admin service goes down during Content Pack deployment
Description	While Content Pack deployment is in progress, OBR Administrator service goes doesn
Resolution	<p>Kill any package manager process running.</p> <pre>ps -ef grep packagemgrsilent</pre> <pre>kill -9 <processid></pre> <p>Select the content packs again and stat the installation.</p>

Chapter 5: Troubleshooting Reporting Issues

HPE OBR provides an interactive user interface—the SAP BusinessObjects BI Launch pad interface that runs on your browser—to view the available reports. The reports are generated by running a query on the underlying data. At times, if the data is missing or there is a problem with SAP BusinessObjects, the report might not display any data.

This section of the guide covers the possible problems that lead to missing data in the reports and how you can troubleshoot them.

SAP BusinessObjects Errors

This section covers some of the common errors related to SAP BusinessObjects encountered in HPE OBR and the steps to troubleshoot them. These errors might prevent the reports from opening or showing data.

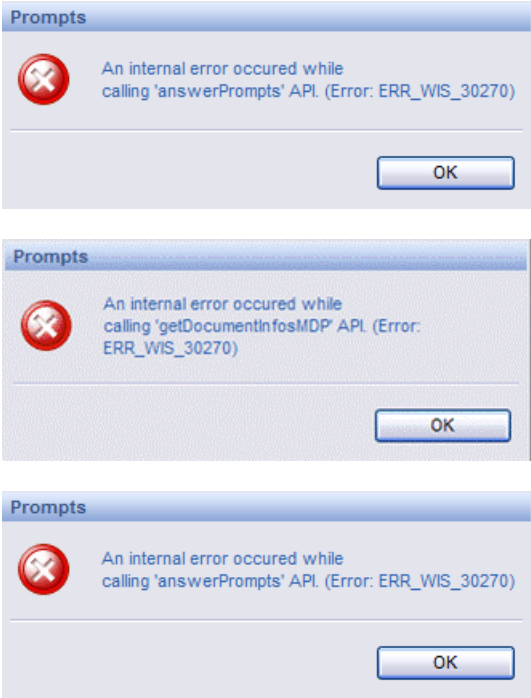
In addition to these errors, SAP BusinessObjects provides a detailed list of errors for Web Intelligence reports at the following URL, http://help.sap.com/businessobject/product_guides/errors/12/0/en/html/.

Symptom	SAP BusinessObjects Central Management Console Error
Description	When trying to access the SAP BusinessObjects Central Management Console, the following error message appears: Error: Server <server name> not found or server may be down null
Resolution	This error occurs when the specified port 6400 is locked by another web service.

Symptom	SAP BusinessObjects BI Launch pad Log in Error
Description	On the SAP BusinessObjects Launch pad log on screen, type the user credentials and click Log On. The following error message appears: Logon denied: Your system does not allow the use of this application This error occurs due to any one of the following issues: 1. HPE OBR license expiry

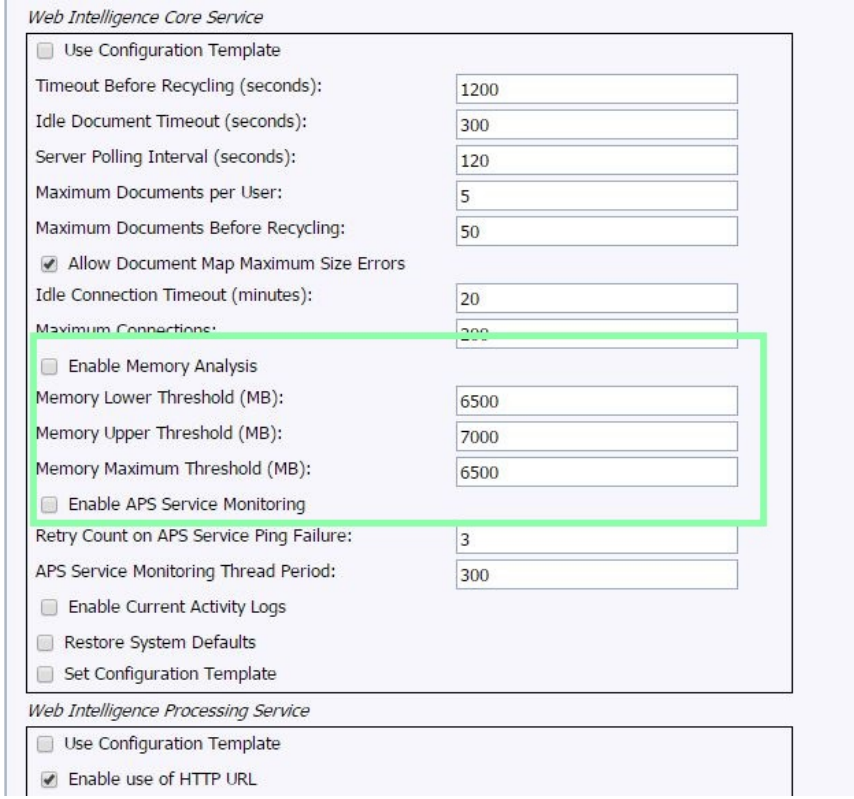
	<ol style="list-style-type: none"> 2. Poor BusinessObjects services 3. BusinessObjects crashes
<p>Resolution</p>	<p>The user can perform one of the following:</p> <ol style="list-style-type: none"> 1. User can check for the license validity. 2. Administrator can log on to CMC/CCM and check for the status of servers if they are up and running. <p>Note: CMC is available for both Windows and Linux platforms whereas CCM is available only on Windows platform.</p> <p>Perform the following steps through CMC:</p> <ol style="list-style-type: none"> 1. Click Start and type Central Management Console in Search. The Central Management Console page appears. <p>OR</p> <p>Log on to CMC from the following url:</p> <p><code>https://<HPE_OBR_System_FQDN>:8443/CMC</code></p> <ol style="list-style-type: none"> 2. Enter the Username and Password and click Log On. The CMC window opens. 3. Click Servers, under Organize. The server window appears. 4. Note the servers which are disabled under Server Name. 5. Right-click the disabled server, then click Enable Server. <p>Note: This step has to be performed on all disabled servers.</p> <p>Perform the following steps through CCM:</p> <p>You can verify this from the HPE OBR machine.</p> <ol style="list-style-type: none"> 1. Click Start and type Central Management Console in Search. The Central Management Console page opens. 2. Select Server Intelligent Agent and click Manage Server icon on the tool bar. 3. Enter the Admin Username and Password and click Connect. 4. Check for the current status of BusinessObjects servers from the newly opened window. 5. Enable the down/disable servers if any and start the server. <p>To check the status of the license, see the <i>Licensing</i> page in the <i>Administration Console</i>. If the license has expired, you must renew the license, apply for a permanent license, or contact HPE Support for assistance. For more information, see the <i>Managing licenses</i> section in the <i>HPE Operations Bridge Reporter Administration Guide</i>.</p>

Symptom	Report Timeout Error
Description	<p>While performing an action on an open report, such as changing the prompts, selecting the filters, or accessing the report tabs, the following error message appears:</p> <p>An error has occurred: A timeout error has occurred</p>
Resolution	This error occurs when a Web Intelligence session is opened and kept idle for a long time. To resolve this, click Document List and reopen the required report.

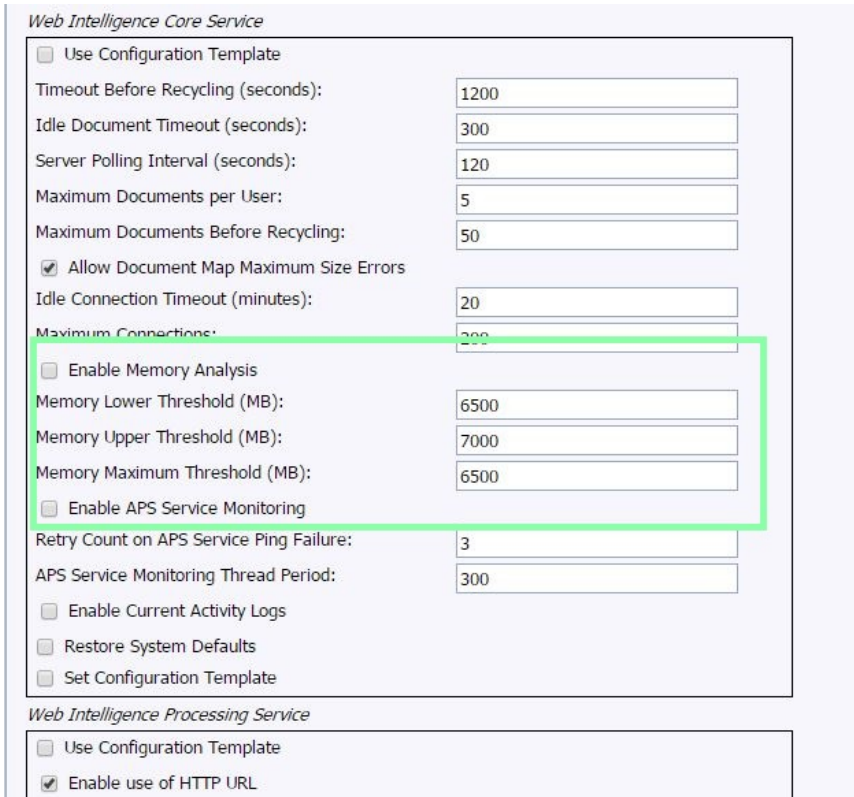
Symptom	Internal Error
Description	<p>While opening a report, one of the following error messages appear:</p> 
Resolution	This error occurs because the utilization of the system resources as well as SAP BusinessObjects internal services was very high at that particular moment when the Web Intelligence report was accessed. The SAP BusinessObjects services were in a waiting state for that moment when the report was accessed. To resolve this issue, click OK in the message box and refresh the report.

Symptom	Server Memory is full - SAP BusinessObjects Reports Error
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Description	SAP BusinessObjects Reports displays a error message server memory is full.
Resolution	<p>To resolve this issue the memory must be increased manually. Follow these steps:</p> <ol style="list-style-type: none"> 1. Log on to CMC from the following url: https://<HPE_OBR_System_FQDN>:8443/CMC 2. From the drop-down list select Servers. 3. Click on Servers List on the left pane. 4. Select AdaptiveProcessServer and right-click and click Stop Server. 5. Right-click AdaptiveProcessServer and click Select Services. 6. Move the services listed to the left pane to Add Services. Click OK. 7. Right-click AdaptiveProcessServer and click Properties. 8. In the Command Line Parameters replace Xmx2g with Xmx4g. Click Save & Close. 9. Right-click AdaptiveProcessServer and click Start Server. 10. Select WebIntelligenceProcessingServer and right-click and click Stop Server. 11. Right-click WebIntelligenceProcessingServer and click Properties. 12. Edit the parameters as shown in the following image:



	<p>Click Save & Close.</p> <p>13. Select WebIntelligenceProcessingServer, right-click and click Start Server.</p>
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Symptom	Server is busy - SAP BusinessObjects Reports Error
Description	SAP BusinessObjects Reports displays a error message server is busy.
Resolution	<p>To resolve this issue the memory must be increased manually. Follow these steps:</p> <ol style="list-style-type: none"> 1. Log on to CMC from the following url: https://<HPE_OBR_System_FQDN>:8443/CMC 2. From the drop-down list select Servers. 3. Click on Servers List on the left pane. 4. Select WebIntelligenceProcessingServer and right-click and click Stop Server. 5. Right-click WebIntelligenceProcessingServer and click Properties. 6. Clear Enable Memory Analysis and Enable APS Service Monitoring as shown in the following image: 

	<p>Click Save & Close.</p> <p>7. Select WebIntelligenceProcessingServer, right-click and click Start Server.</p>
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Symptom	Error: Illegal access to viewer please use a valid url
Description	This error appears while a new report is opened or a existing report is refreshed. This is because the web intelligence server and connecting server is in failed state. To resolve this issue perform any one of the following resolution.
Resolution 1	<p>Follow these steps to overcome this issue:</p> <ol style="list-style-type: none"> 1. Click Start and type Central Management Console in Search. The Central Management Console page appears. 2. Enter the Username and Password and click Log On. 3. Click Servers, under Organize. The server window opens. 4. Click Servers List from the left pane. 5. Right-click on OBR.WebIntelligenceProcessingServer and click Properties. The properties page appears. 6. In Web Intelligence Core Service, clear Enable Memory Analysis. 7. Click Save & Close. 8. Start the SAP BusinessObjects service as follows: <ul style="list-style-type: none"> On Windows: <ul style="list-style-type: none"> ◦ Go to Start > Run, type <code>services.msc</code>. ◦ Right-click on Business Objects Webserver and click Stop. ◦ Right-click on Business Objects Webserver and click Start On Linux: <ul style="list-style-type: none"> ◦ Go to the location <code>/etc/init.d</code>. ◦ Run the command <code>service SAPBOBJEnterpriseXI40 stop</code> ◦ Run the command <code>service SAPBOBJEnterpriseXI40 start</code>
Resolution 2	<ol style="list-style-type: none"> 1. Go to the following location: <pre style="margin-left: 20px;">/opt/HP/BSM/BOE4/setup/</pre> 2. Run the following command to verify the size of <code>boconfig.cfg</code>: <pre style="margin-left: 20px;">ls -sh</pre> 3. If the size of <code>boconfig.cfg</code> is 0 KB, copy the <code>boconfig.cfg</code> file from working system to the same location OR Contact HPE Support. 4. Log on to CMC from the following url:

	<p>https://<HPE_OBR_System_FQDN>:8443/CMC</p> <ol style="list-style-type: none"> 5. Enter the Username and Password and click Log On. 6. Click Servers, under Organize. The server window opens. 7. Click Servers List from the left pane. 8. Right-click on OBR.WebIntelligenceProcessingServer and click Restart Server. 9. Right-click on OBR.ConnectionServer and click Restart Server.
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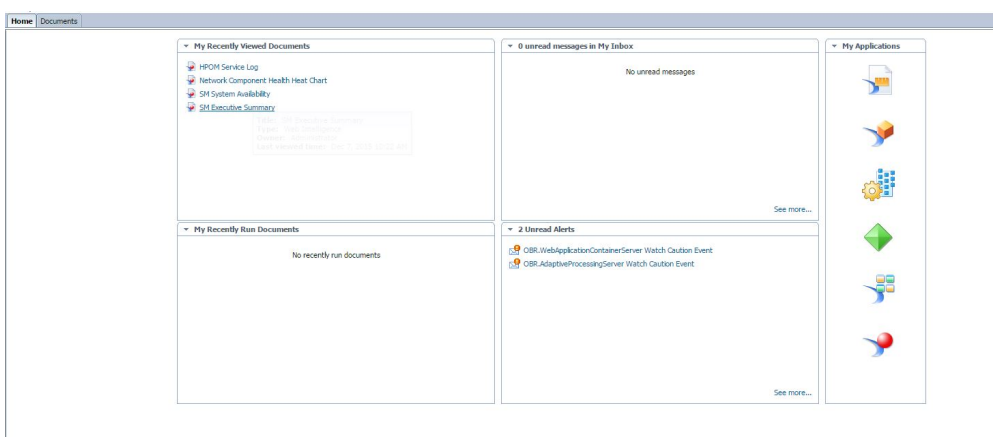
Enabling BI Launch Pad to Authenticate Users

Steps to enable BI Launch pad to authenticate through LDAP or Active Directory or Enterprise

Steps	<ol style="list-style-type: none"> 1. Create a file BIlaunchpad.properties in %PMDDB_HOME%\BOWebServer\webapps\BOE\WEB-INF\config\custom with the following entries: <ol style="list-style-type: none"> a. authentication.visible b. authentication.default 2. Set the value of the <authentication.visible> parameter to true. 3. Set the value of the <authentication.default> parameter as follows: <table border="1" style="margin: 10px auto;"> <thead> <tr> <th>Authentication Through</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>LDAP</td> <td>secLDAP</td> </tr> <tr> <td>ActiveDirectory</td> <td>secWinAD</td> </tr> <tr> <td>Enterprise</td> <td>secEnterprise</td> </tr> </tbody> </table> 4. Save and close the file. 5. Restart the web application server. 	Authentication Through	Value	LDAP	secLDAP	ActiveDirectory	secWinAD	Enterprise	secEnterprise
Authentication Through	Value								
LDAP	secLDAP								
ActiveDirectory	secWinAD								
Enterprise	secEnterprise								

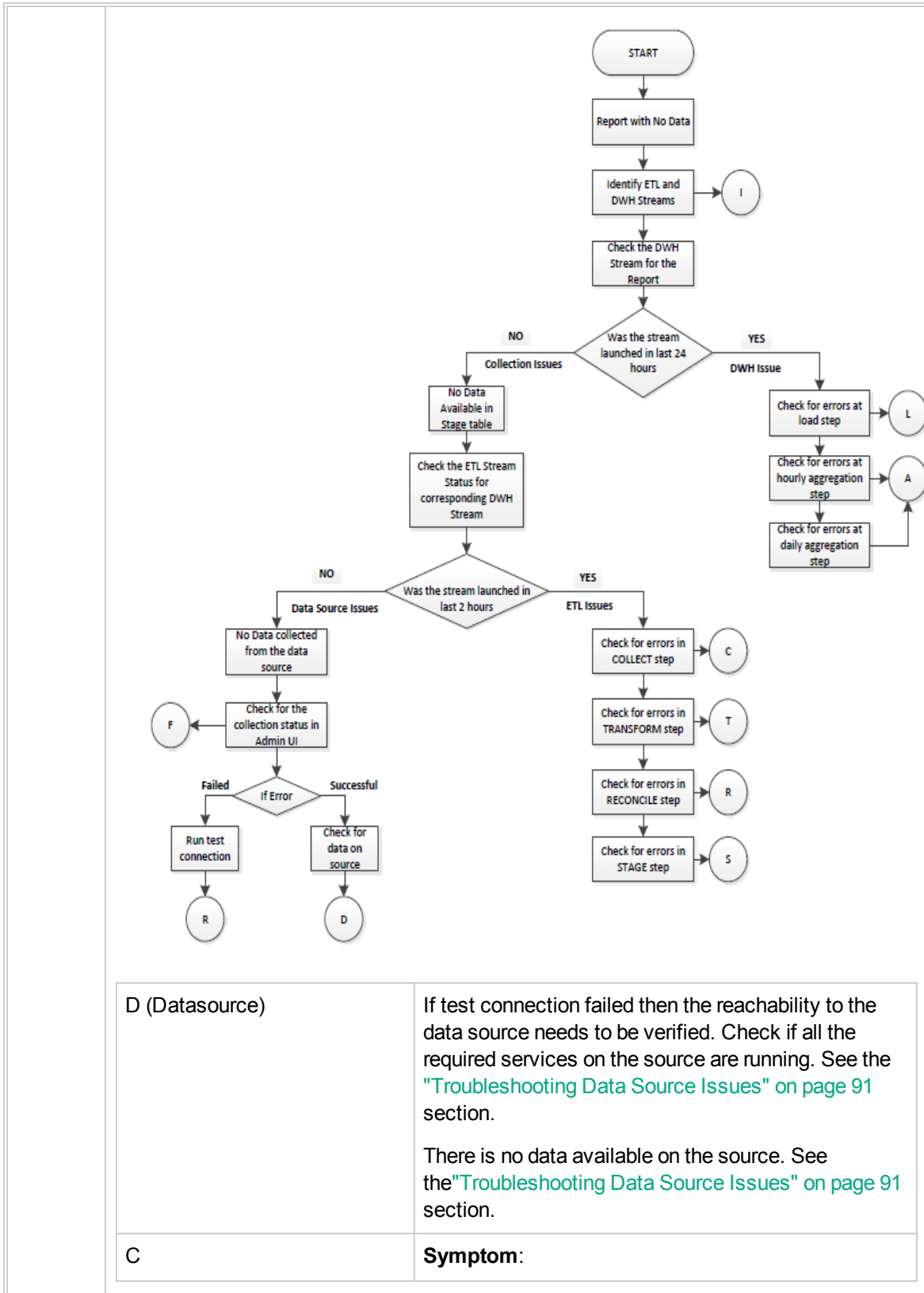
BI Launch Pad Landing Page Alerts

Solution	To enable BI launch pad landing page Alerts, as shown in the following image:
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	 <p>The screenshot shows a dashboard with several panels. The top-left panel, 'My Recently Viewed Documents', lists items like 'HPDM Service Log', 'Network Component Health Heat Chart', and 'SH Executive Summary'. The top-right panel, 'Unread messages in My Inbox', shows 'No unread messages'. The bottom-left panel, 'My Recently Run Documents', shows 'No recently run documents'. The bottom-right panel, 'Unread Alerts', shows two alerts: 'OBR.WebApplicationContainerServer Watch Caution Event' and 'OBR.AdaptiveProcessingServer Watch Caution Event'. A 'My Applications' sidebar is on the far right.</p>
<p>Steps</p>	<p>For information to set the Alerts, see <i>How to set alerts for Watchlist in BI 4.0</i> document located at URL: https://softwaresupport.hp.com/</p> <p>Also, for information on metrics available to all servers, see <i>Explanation of Server Monitoring Metrics for SAP BusinessObjects Business Intelligence 4.0</i> document located at URL: https://softwaresupport.hp.com/</p>

Reports Issues

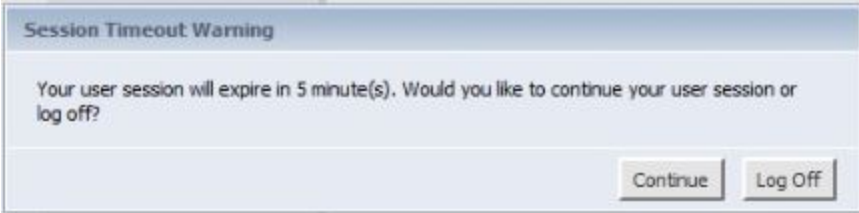
<p>Symptom</p>	<p>No Data Retrieved for Reports</p>
<p>Description</p>	<p>After opening a report and specifying the prompts, a window appears with a message No data to retrieve in the following Queries. For example, consider a WebLogic report for a EJB Dailyreport.</p>
<p>Resolution</p>	<p>This problem could be due to any one of the following issue:</p> <ol style="list-style-type: none"> 1. Incorrect prompt selection 2. No data available for the selected dimension 3. ETL issues 4. Aggregation issues 5. Source issue/not monitoring the nodes <p>The following flow chart provides the steps you must follow to troubleshoot the possible causes:</p>



<p>(Collect)</p>	<p>The COLLECT step for the stream shows ERROR (Red icon) and files are piling up in the {PMDB_HOME}/collect folder.</p> <p>Contact HP Support if this is your scenario. There are no known cases when this should fail.</p>
<p>T (Transform)</p>	<p>Symptom:</p> <p>The TRANSFORM step for the stream shows ERROR (Red icon) and relevant files are piling up in the {PMDB_HOME}/failed_to_tranform folder.</p> <p>Contact HP Support if this is your scenario. There are no known cases when this should fail.</p>
<p>R (Reconcile)</p>	<p>Symptom:</p> <p>The RECONCILE step for the stream shows ERROR (Red icon) and relevant files are piling up in the {PMDB_HOME}/failed_to_reconcile folder.</p> <p>Resolution:</p> <p>See "Troubleshooting Data Source Issues" on page 91 section.</p>
<p>S (Stage)</p>	<p>Symptom1:</p> <p>The STAGE step for the stream shows ERROR (Red icon). Drill down detail, the following message is displayed "Database server not found". Also, relevant files are piling up in the {PMDB_HOME}/stage folder.</p> <p>Resolution:</p> <ol style="list-style-type: none"> 1. This can be due to temporary loss of connection to database and the next run of the step takes care of reprocessing data. 2. If the files are getting piled up in stage directory, check connectivity to the database. See the "Understanding Database Alerts" on page 58 section. <p>Symptom2:</p> <p>The STAGE step for the stream shows ERROR (Red icon). Drill down detail, the following message is displayed You have run out of space in pmdb_user_main DBSpace. Also, files are piling up in the {PMDB_HOME}/stage folder.</p>

		<p>Resolution:</p> <ol style="list-style-type: none"> 1. Increase the disk space if the drive is running full. 2. Increase the <code>pmdb_user_main</code> database space manually and start the <code>HPE_PMBD_Internal_Monitoring</code> service in case the service is stopped or disabled. <p>Symptom3:</p> <p>The STAGE step for the stream shows ERROR (Red icon). Drill down detail, the following message is displayed <code>Insufficient buffers for</code>. Also, files piling up in the <code>{PMDb_HOME}/stage</code> folder.</p> <p>This error occurs because the temporary cache is not adequately provisioned.</p> <p>Resolution:</p> <p>You can ignore this error if it occurs occasionally. If it occurs frequently, consider the following option:</p> <ol style="list-style-type: none"> 1. Reduce the number of concurrent jobs you launch. See the <i>HPE Operations Bridge Reporter Online Help for Administrators</i>.
<p>L, A, S (Load, Aggregate, SQL Executor)</p>		<p>Symptom1:</p> <p>The LOAD/AGGREGATE/EXEC_PROC step for the stream shows ERROR (Red icon). Drill down detail, the <code>Database server not found</code> message is displayed.</p> <p>Resolution:</p> <ol style="list-style-type: none"> 1. This can be due to temporary loss of connection to database; the next run of the step should resolve the reprocessing the data. <p>Symptom2:</p> <p>The LOAD/AGGREGATE/EXEC_PROC step for the stream shows ERROR (Red icon). Drill down detail, the <code>You have run out of space in pmdb_user_main DBSpace</code> message is displayed.</p> <p>Resolution:</p> <ol style="list-style-type: none"> 1. Increase the disk space if the drive is running full.

	<p>2. Increase the pmdb_user_main database space manually and start the HPE_PMBD_Internal_Monitoring service if the service is stopped or disabled.</p> <p>Symptom3:</p> <p>The LOAD/AGGREGATE/EXEC_PROC step for the stream shows ERROR (Red icon). Upon drilling down, the <i>Insufficient buffers</i> message is displayed and data is stuck in source tables.</p> <p>This error occurs because the temp cache is not adequately provisioned.</p> <p>Resolution:</p> <p>You can ignore this error if it occurs occasionally. If it occurs frequently, consider the following option:</p> <ol style="list-style-type: none"> 1. Reduce the number of concurrent jobs you launch. See the <i>HPE Operations Bridge Reporter Administration Guide</i>.
F (Schedule Frequency)	<p>To check the Collection Status and the Schedule Frequency, log on to the Administrator Console, select Collection Configuration. Select a data source to see the Collection Status and the Schedule Frequency.</p>
I (Identify Streams)	<p>See the "Unable to Refresh a Report" on the next page or "Generating Reports to Stream Mapping Information" on page 128 section to identify the stream associated with the report.</p>

Symptom	BI Launch pad reports <i>session expire</i> message
Description	<p>While working on the BI Launch pad reports the session expire message pop-up appears as shown in the following image:</p> 
Resolution	<p>Follow these steps increase the launch pad session timeout pages:</p> <ol style="list-style-type: none"> 1. Stop the Tomcat server:

	<p>On Windows: Go to Start > Run, type <code>services.msc</code>, right-click Business Objects Webserver service and click Stop.</p> <p>On Linux: Go to the location <code>/opt/HP/BSM/PMDB/BOWebServer/bin</code> and run the command: <code>./shutdown.sh</code></p> <p>2. On Windows: Go to the location <code>%PMDB_HOME%\BOWebServer\webapps\BOE\WEB-INF</code>.</p> <p>On Linux: Go to the location <code>/opt/HP/BSM/PMDB/BOWebServer/webapps/BOE/WEB-INF</code>.</p> <p>3. Open the <code>web.xml</code> and locate the following:</p> <pre><session-config> <session-timeout>20</session-timeout> </session-config></pre> <p>4. Edit the session-timeout value for more than 20 minutes. For example: to set the session timeout to 60 minutes.</p> <pre><session-config> <session-timeout>60</session-timeout> </session-config></pre> <p>5. Start the Tomcat server:</p> <p>On Windows: Go to Start > Run, type <code>services.msc</code>, right-click Business Objects Webserver service and click Start.</p> <p>On Linux: Go to the location <code>/opt/HP/BSM/PMDB/BOWebServer/bin</code> and run the command: <code>./startup.sh</code></p>
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Symptom	Unable to Refresh a Report
Description	You cannot refresh a report to display updated information because the cascading prompt value in the Prompts dialog box is missing.
Resolution	<p>This problem occurs because of missing data in the dimension tables for a query. To troubleshoot this problem, perform the following steps:</p> <p>Note: The following steps are performed using the WebLogic EJB Cache Hit report as an example but you can perform these steps for any report.</p> <ol style="list-style-type: none"> 1. Check the dimension table for data pertaining the query: <ol style="list-style-type: none"> a. Click Cancel in the Prompts window. b. On the report toolbar, click Edit. c. If a Warning - Security message box appears, click Yes. The report opens

	<p>in Edit mode.</p> <ol style="list-style-type: none"> d. On the toolbar, click Edit Query. e. At the bottom of the report, click EJB Daily, and click SQL in the Report toolbar. The SQL Viewer dialog box opens, which displays the SQL for that query. Note that EJB Daily is used as an example here. For any other report, you must edit the respective query. f. Identify the dimension table from which the EJB name is fetched. In this example, the dimension table is K_CI_JEE_Server. <p>To identify the table perform the following:</p> <ol style="list-style-type: none"> 1. Log on to the Administration console, click Internal Monitoring > Content Health Status. The Content Health Summary is displayed. 2. Click the Reports Impacted link. You can check the Affected Reports on the right hand pane. <p>For more information, see <i>HPE Operations Bridge Reporter Administrator Guide</i>.</p>
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Symptom	Report Appears Blank after Refreshing
Description	After opening a report and applying the necessary prompts, the report does not display any data.
Resolution	<p>The report appears blank due to any one of the following issue:</p> <ol style="list-style-type: none"> 1. Incorrect entry of measurable object (memory util, cpu util). 2. No data is displayed if the report is generated for the first section in a section based report. <p>The section is displayed in alphabetical order by default.</p> <p>The report does not display any data because you might not have selected the time-drill filters for the report.</p> <p>To resolve this problem, perform the following:</p> <ul style="list-style-type: none"> • Set the time-drill filters on the Report Filter toolbar, if they are available for the report. • If context-based filters are available on the Report Filter toolbar, select the appropriate value from the drop-down list. • Reports might appear blank because of issues in the database such as missing business keys, table not loading, and so on. To investigate such errors, contact HP Support.

Symptom	Missing Data for Specific Time Period
Description	A selected report displays data for a particular time period even when drilled down to

the day level. However, when the time period is changed to different week, the report does not display any data.

OPERATIONS BRIDGE REPORTER

Application Server - WebLogic Report Period: 11/2/15 - 2/1/16

WebLogic Top N Summary

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Business Service(s) All

Business View(s) / Group(s) All

Shift Default_Shift Location All

Top N Servers by JVM Memory Utilization (%)

JeeServer Name	Node Name	Average JVM Memory Utilization (%)

Top N Servers by Execute Queue Wait Count

JeeServer Name	Node Name	Average Wait Count	Average Throughput Rate (Per Sec)

Top N Servers by JDBC Delay Time

JeeServer Name	Node Name	Average Delay Time (Milli Seconds)	Average Throughput Rate (Per Sec)

Top N Servers by EJB Wait Rate

JeeServer Name	Node Name	Average Wait Rate (Per Min)	Average Cache Hit (%)

Resolution

This problem occurs because of missing data which could be due to one of the following issues:

1. ETL issues - See "[Reports Issues](#)"
2. Aggregation - See "[Reports Issues](#)"
3. No metric collection for selected time period - Check the retention period for the selected time period.
4. No particular SPI.


Symptom	Data Missing from Reports
Description	This problem occurs if the data is stuck in {PMDB_HOME}/stage/transform_cache folder and data flow is not happening.
Resolution	To resolve this issue, perform the following steps: <ol style="list-style-type: none"> 1. Go to the location {PMDB_HOME}/config/collection.properties 2. Change the mapper.cache.key.retry.count=4 to the following value: mapper.cache.key.retry.count=1

	<p>The above change will make mapper dump the incomplete records immediately instead of waiting for 4 cycles.</p> <p>OR</p> <p>Change the <code>mapper.cache.key.retry.count=false</code> to the following value:</p> <pre>mapper.cache.key.retry.count=true</pre> <p>With the above change, mapper will not wait for incomplete records across multiple files it has to processes in single run.</p>
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Symptom	Irrelevant Information in Customer and Location Enrichment Log Files
Description	<p>The following messages are logged in <code>customer.log</code> file without <code>customerenrich.xml</code> created in the <code>PMDB_HOME/config</code> folder:</p> <pre>2016-05-28 15:44:23,911 DEBUG, com.hp.bto.shr.enrichment.customer.service.CustomerService.execute , [ABCBatchID:203, ABCStreamID:PMDB_Platform@CustomerDefinition, ABCStepID:CustomerDefinition, ABCProcessID:204] Customer enrich definition files to process =0 2016-05-28 15:44:23,912 WARN, com.hp.bto.shr.enrichment.customer.service.CustomerService.flushAndCloseDimCustCSVWriter , [ABCBatchID:203, ABCStreamID:PMDB_ Platform@CustomerDefinition, ABCStepID:CustomerDefinition, ABCProcessID:204] Failed to move fileC:\HPE-OBR\PMDB\temp\Core_0_ Stage_K_Customer_0_stage.csv 2016-05-28 15:46:23,356 INFO, com.hp.bto.shr.enrichment.customer.command.CustomerEnrichCommand.executeSpecific , [ABCBatchID:220, ABCStreamID:PMDB_ Platform@CustomerDefinition, ABCStepID:CustomerDefinition, ABCProcessID:221] Command Line details :</pre> <p>The following messages are logged in <code>location.log</code> file without <code>locationenrich.xml</code> created in the <code>PMDB_HOME/config</code> folder:</p> <pre>2016-06-02 18:19:56,557 DEBUG, com.hp.bto.shr.enrichment.location.service.LocationService.initLocation , [ABCBatchID:100315, ABCStreamID:PMDB_Platform@platform_poller_ registry_build, ABCStepID:LocationEnrichment, ABCProcessID:100317] Location enrich relaton files to delete =0 2016-06-02 18:19:56,584 DEBUG, com.hp.bto.shr.enrichment.location.service.LocationService.execute , [ABCBatchID:100315, ABCStreamID:PMDB_Platform@platform_poller_registry_ build, ABCStepID:LocationEnrichment, ABCProcessID:100317] Location enrich definition files to process =0</pre>

	<pre>2016-06-02 18:19:56,585 WARN, com.hp.bto.shr.enrichment.Location.service.LocationService.flushAndCloseDimLocCSVWriter , [ABCBatchID:100315, ABCStreamID:PMDB_Platform@platform_poller_registry_build, ABCStepID:LocationEnrichment, ABCProcessID:100317] Failed to move fileC:\HPE-OBR\PMDB\temp\Core_0_Stage_K_Location_0_stage.csv 2016-06-02 18:19:56,585 DEBUG, com.hp.bto.shr.enrichment.Location.service.LocationService.deleteOldRelationfiles , [ABCBatchID:100315, ABCStreamID:PMDB_Platform@platform_poller_registry_build, ABCStepID:LocationEnrichment, ABCProcessID:100317] No relation files to delete 2016-06-02 18:23:07,824 INFO, com.hp.bto.shr.enrichment.Location.command.LocationEnrichCommand.executeSpecific , [ABCBatchID:100345, ABCStreamID:PMDB_Platform@platform_poller_registry_build, ABCStepID:LocationEnrichment, ABCProcessID:100347] Running Location enrichment 2016-06-02 18:23:07,840 INFO, com.hp.bto.shr.enrichment.Location.command.LocationEnrichCommand.executeSpecific , [ABCBatchID:100345, ABCStreamID:PMDB_Platform@platform_poller_registry_build, ABCStepID:LocationEnrichment, ABCProcessID:100347] Command line details :</pre>
<p>Resolution</p>	<p>If you have not created the customerenrich.xml and locationenrich.xml, you can ignore these messages.</p> <p>For steps to create new customerenrich.xml and locationenrich.xml, see <i>HPE Operations Bridge Reporter Administration Guide</i>.</p>

<p>Symptom</p>	<p>Unable to export a report in csv format from SAP BusinessObjects BI Launch pad</p>
<p>Description</p>	<p>Unable to export a report in csv format from SAP BusinessObjects BI Launch pad this is because the binary output size has reached the maximum limit.</p>
<p>Resolution</p>	<p>To resolve this issue, follow these steps:</p> <ol style="list-style-type: none"> 1. Log on to Central Management Console (CMC) as Administrator with Enterprise authentication mode from the following link: <a href="http://<HPE_OBR_System_FQDN>:8080/CMC">http://<HPE_OBR_System_FQDN>:8080/CMC OR <a href="https://<HPE_OBR_System_FQDN>:8443/CMC">https://<HPE_OBR_System_FQDN>:8443/CMC where, <HPE_OBR_System_FQDN> is the fully qualified domain name of the HPE OBR system. 2. Click Servers.

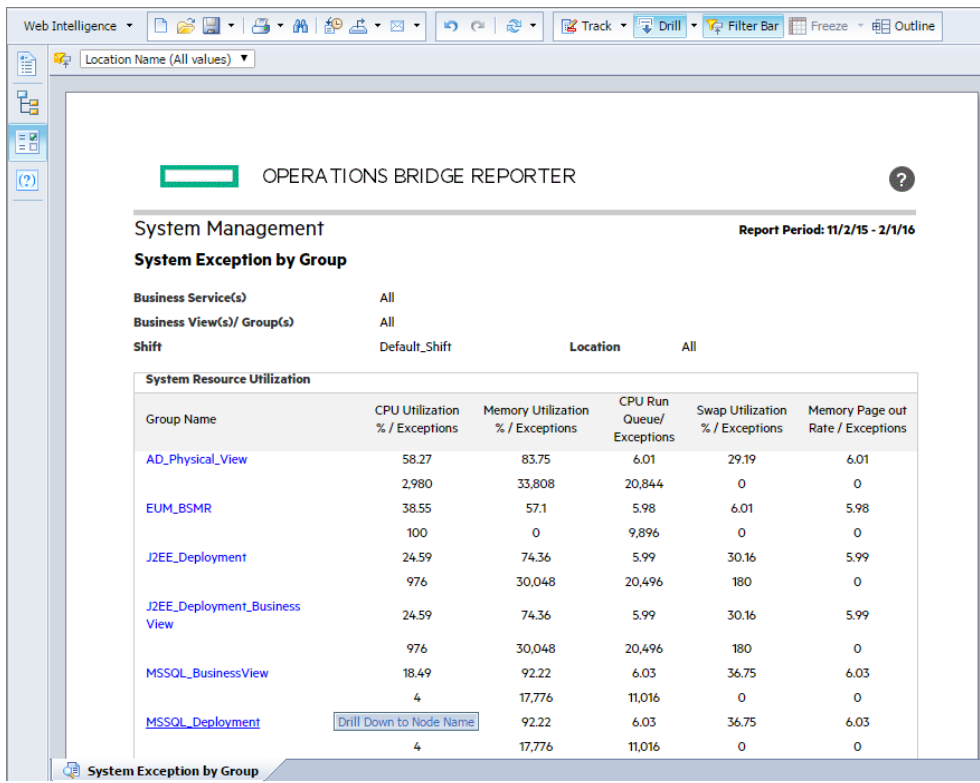
3. From the **Service Categories**, click **Web Intelligence**.
4. Double-click on **Web Intelligence Processing Server**. The Properties page appears.
5. Increase the **Binary Stream Maximum Size** (Default value=50 MB; Maximum value = 65535 MB).
6. Click on **Save and close**
7. Select the **Web Intelligence Processing Server** and click the Restart server icon  to restart the Web Intelligence server.

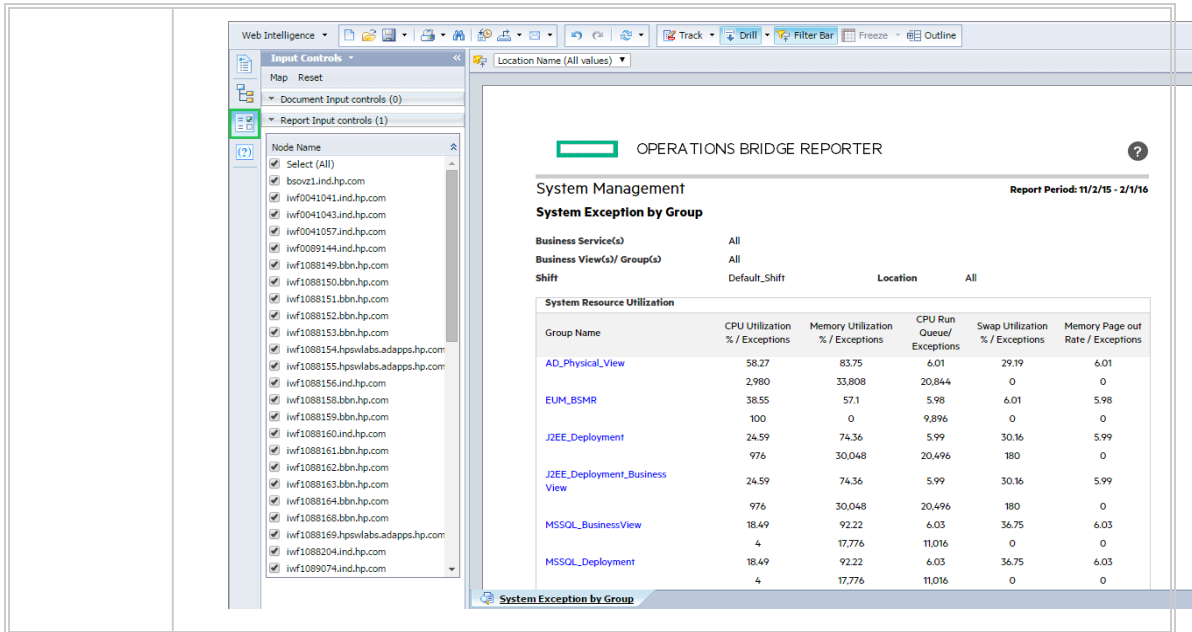
Symptom	No Data in Smart Plugin (SPI) Data Source Reports																
Description	This symptom is applicable to Microsoft SQLServer/Oracle/WebSphere/WebLogic reports that do not display any data.																
Resolution	<p>This problem occurs because of data logging issue with HP Performance Agent when both Operations Agent and HP Performance Agent are installed in your environment. The table below consists of the data sources that the content pack uses. Due to improper summarization of metric ID and value ID, these reports fail to show data.</p> <p>To resolve this, Operations Agent must be used for data logging instead of HP Performance Agent.</p> <table border="1" data-bbox="415 1087 1377 1549"> <thead> <tr> <th>Content Pack Name</th> <th>Data Sources (HP – Performance Agent)</th> </tr> </thead> <tbody> <tr> <td>Oracle</td> <td>DBSPI_ORA_REPORT; DBSPI_ORA_GRAPH</td> </tr> <tr> <td>MS SQL</td> <td>DBSPI_MSS_REPORT; DBSPI_MSS_GRAPH</td> </tr> <tr> <td>WebLogic</td> <td>WBSSPI_METRICS; WBSSPI_RPT_METRICS</td> </tr> <tr> <td>WebSphere</td> <td>WLSSPI_METRICS ; WLSSPI_RPT_METRICS</td> </tr> <tr> <td>Active Directory</td> <td>ADSPI</td> </tr> <tr> <td>Exchange 2007</td> <td>EX2007_DATA</td> </tr> <tr> <td>Exchange 2010</td> <td>EXSPI_DATA</td> </tr> </tbody> </table> <p>For more information and the Resolution steps for SQL Server and Oracle reports, see the <i>Troubleshooting Data Logging with HP Performance Agent</i> section of the <i>SPI for Databases 12.04 Installation and Configuration Guide</i>.</p> <p>For more information and the Resolution steps for WebLogic reports, see the <i>Integrating WebLogic SPI with HP Performance Agent</i> section of the <i>SPI for WebLogic Application Server 7.04 Installation and Configuration Guide</i>.</p> <p>For more information and the Resolution steps for WebSphere reports, see the <i>Integrating WebSphere SPI with HP Performance Agent</i> section of the <i>SPI for</i></p>	Content Pack Name	Data Sources (HP – Performance Agent)	Oracle	DBSPI_ORA_REPORT; DBSPI_ORA_GRAPH	MS SQL	DBSPI_MSS_REPORT; DBSPI_MSS_GRAPH	WebLogic	WBSSPI_METRICS; WBSSPI_RPT_METRICS	WebSphere	WLSSPI_METRICS ; WLSSPI_RPT_METRICS	Active Directory	ADSPI	Exchange 2007	EX2007_DATA	Exchange 2010	EXSPI_DATA
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Exchange 2007	EX2007_DATA																
Exchange 2010	EXSPI_DATA																

WebSphere Application Server 7.04 Installation and Configuration Guide.

Symptom	Tooltip not working in Firefox 10.0.3
Description	Tooltip not working in Firefox 10.0.3
Resolution	Upgrade the browser to a minor version like Firefox 10.0.6 or a major version like Firefox 11.

Symptom	Internet Explorer Hangs when Zoom Level is 90–95%
Description	Internet Explorer Hangs when Zoom Level is 90–95%
Resolution	You must set the zoom level of the reports to any number except between 90–95%.

Symptom	Missing Input Controls Pane in Report																																										
Description	After opening a report, user is unable to find input controls (wherever applicable).																																										
	 <p>The screenshot shows the 'OPERATIONS BRIDGE REPORTER' interface. The main content area displays a report titled 'System Exception by Group' for the period '11/2/15 - 2/1/16'. Below the title is a table for 'System Resource Utilization' with the following data:</p> <table border="1"> <thead> <tr> <th>Group Name</th> <th>CPU Utilization % / Exceptions</th> <th>Memory Utilization % / Exceptions</th> <th>CPU Run Queue / Exceptions</th> <th>Swap Utilization % / Exceptions</th> <th>Memory Page out Rate / Exceptions</th> </tr> </thead> <tbody> <tr> <td>AD_Physical_View</td> <td>58.27 / 2,980</td> <td>83.75 / 33,808</td> <td>6.01 / 20,844</td> <td>29.19 / 0</td> <td>6.01 / 0</td> </tr> <tr> <td>EUM_BSMR</td> <td>38.55 / 100</td> <td>57.1 / 0</td> <td>5.98 / 9,896</td> <td>6.01 / 0</td> <td>5.98 / 0</td> </tr> <tr> <td>J2EE_Deployment</td> <td>24.59 / 976</td> <td>74.36 / 30,048</td> <td>5.99 / 20,496</td> <td>30.16 / 180</td> <td>5.99 / 0</td> </tr> <tr> <td>J2EE_Deployment_Business View</td> <td>24.59 / 976</td> <td>74.36 / 30,048</td> <td>5.99 / 20,496</td> <td>30.16 / 180</td> <td>5.99 / 0</td> </tr> <tr> <td>MSSQL_BusinessView</td> <td>18.49 / 4</td> <td>92.22 / 17,776</td> <td>6.03 / 11,016</td> <td>36.75 / 0</td> <td>6.03 / 0</td> </tr> <tr> <td>MSSQL_Deployment</td> <td>4 / 4</td> <td>17.776 / 92.22</td> <td>6.03 / 6.03</td> <td>36.75 / 0</td> <td>6.03 / 0</td> </tr> </tbody> </table> <p>The left sidebar contains an 'Input Control' icon (a question mark in a circle) which is highlighted with a green box in the image.</p>	Group Name	CPU Utilization % / Exceptions	Memory Utilization % / Exceptions	CPU Run Queue / Exceptions	Swap Utilization % / Exceptions	Memory Page out Rate / Exceptions	AD_Physical_View	58.27 / 2,980	83.75 / 33,808	6.01 / 20,844	29.19 / 0	6.01 / 0	EUM_BSMR	38.55 / 100	57.1 / 0	5.98 / 9,896	6.01 / 0	5.98 / 0	J2EE_Deployment	24.59 / 976	74.36 / 30,048	5.99 / 20,496	30.16 / 180	5.99 / 0	J2EE_Deployment_Business View	24.59 / 976	74.36 / 30,048	5.99 / 20,496	30.16 / 180	5.99 / 0	MSSQL_BusinessView	18.49 / 4	92.22 / 17,776	6.03 / 11,016	36.75 / 0	6.03 / 0	MSSQL_Deployment	4 / 4	17.776 / 92.22	6.03 / 6.03	36.75 / 0	6.03 / 0
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Resolution	<p>Perform the following:</p> <ol style="list-style-type: none"> 1. Click the Input Control icon in the left pane to get the list of input controls available for the report as shown below. 																																										



Symptom	Select/Unselect Input Control Data and then Drill Down from Current Level give Improper Results
Description	After opening a report, if you select/unselect input controls (wherever applicable) and then drill down from the current level, you get improper results.
Resolution	<p>If this issue occurs intermittently, perform the following steps:</p> <ol style="list-style-type: none"> 1. Select/unselect desired values from input control. 2. Drill up to first level (for example, up to all years in out of the box HPE OBR reports). 3. Drill down so that data syncs up properly with the selected dimensions from input controls.

Symptom	Only Drill Icon Appears when Date Range is Across Years
Description	After refreshing a report for the selected dates which they span across years, only the drill icon appears in the drill bar section of the report with missing dates.
Resolution	<ol style="list-style-type: none"> 1. When the report is refreshed for a selected date range that spans across years as follows only drill icon appears:

The screenshot shows the 'OPERATIONS BRIDGE REPORTER' interface for 'Application Server - WebLogic' with a report period of '11/4/15 - 2/29/16'. The 'Servlet Performance Summary' section includes filters for Business Service(s), Business View(s) / Group(s), Shift, Node Name, and JeeServer Name. A table titled 'Servlet Request Rate and Response Time' is also visible. A filter menu at the top shows 'Location (All values)', '2016', and 'Month (All values)', with '2016' highlighted in a green box.

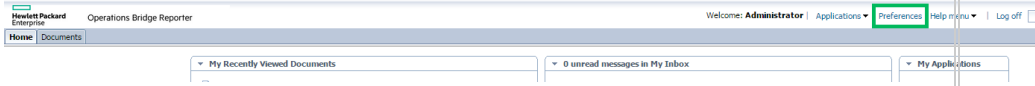
2. Selecting the required Year in the analysis context (as displayed in the following image) solves this issue and the report can be drilled down/up for further analysis.

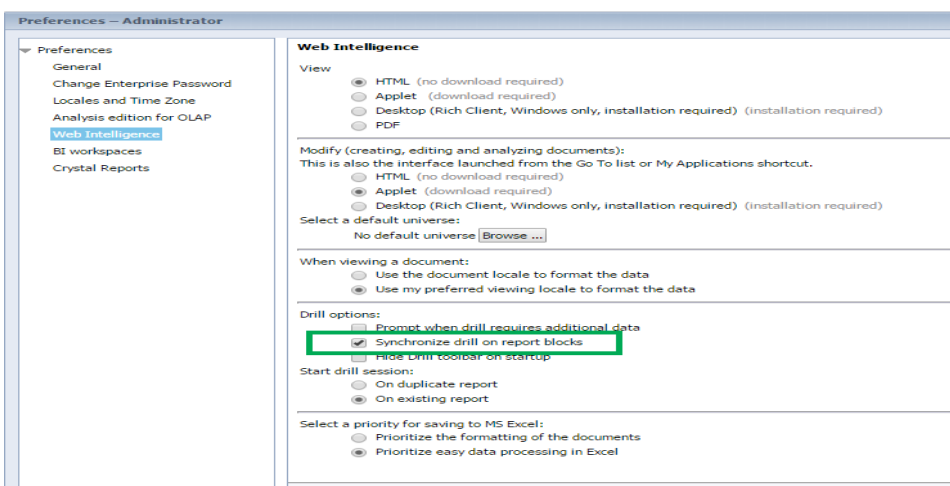
Symptom	Refreshing a Single-Day Data Report Returns Inaccurate Data
Description	When the report is refreshed for a single day, the report shows data only for the first hour instead of all 24 hours
Resolution	<ol style="list-style-type: none"> 1. When a report is refreshed, for example: for 1-Aug-2012, the report shows data only for the first hour. 2. To fetch data for all 24 hours of a single day, refresh the report with Select Start Date as 1-Aug-2012 and Select End Date as 2-Aug-2012. Now data for all 24 hours of 1-Aug-2012 is shown.

Symptom	SAP BusinessObjects BI Launch pad Page Timeout Error
Description	SAP BusinessObjects BI Launch pad Page Timeout Error
Resolution	<p>The following steps will resolve the Launch pad page timeout error.</p> <ol style="list-style-type: none"> 1. In the web.xml file, set the variables. logontoken enable=false, session-timeout=120 (You must set these variables in all web.xml files of installed applications; you can set session timeout over 120 minutes too, but up to maximum 8 hours). <pre>[<Install DIR>Program Files (x86)\Business Objects\Tomcat55\webapps\CmcApp\WEB-INF [<Install DIR>Program Files (x86)\Business Objects\Tomcat55\webapps\InfoViewApp\WEB-INF [<Install DIR>Program Files (x86)\Business Objects\Tomcat55\webapps\InfoViewAppActions\WEB-INF [<Install DIR>Program Files (x86)\Business Objects\Tomcat55\webapps\CmcAppActions\WEB-INF [<Install DIR>Program Files (x86)\Business Objects\Tomcat55\webapps\AnalyticalReporting\WEB-INF [<Install DIR>Program Files (x86)\Business Objects\Tomcat55\webapps\OpenDocument\WEB-INF</pre> 2. Add -failovertimeout 1 to the command line parameter of CMS for CMC. 3. Log on to CMC server. 4. Right-click Central Management Server and append the command line with the switch. 5. To add the switch, right-click Central Management Server. 6. Go to the command line, enter a space and append the switch.

Log on to Launch pad and wait for 121 min to get web session and enterprise session timeout.

Symptom	Unable to save a report to a file system (On Linux only)
Description	The SAP BusinessObjects scheduling feature for reports from Launch pad requires R package. This package is not installed by default.
Resolution	To get the scheduled reporting output to a file system, follow these steps: <ol style="list-style-type: none"> 1. Install and configure the R package (for example: rexec and rsh client and servers) to the system where SAP BusinessObjects component is installed. 2. Enable rsh for the SHRBOARDADMIN user.

Symptom	Setting the Sync Drill on Blocks
Description	After refreshing a report, when the report is drill down to “Hour” level dimension, entire report is not in sync at the same dimension, such as the first block on which drill was executed shows data at “Hour” level but the remaining blocks shows data at “Day” level.
Resolution	This problem occurs because preferences are not set for the drill option. Perform the follow steps to set them: <ol style="list-style-type: none"> 1. Go to Preferences in Launch pad:  2. Under Web Intelligence, from the Drill options section, select Synchronize drill on report blocks as follows:



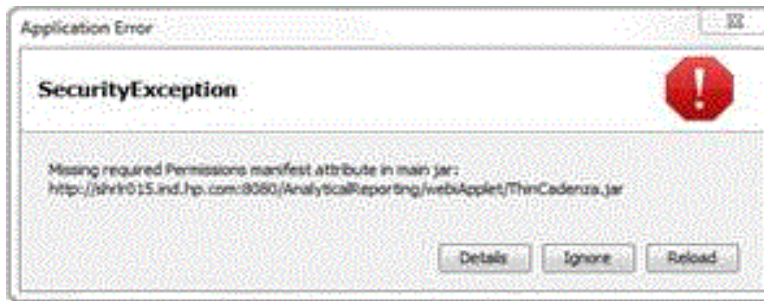
3. Click **OK**, then logout and log on again to Launch pad. If the report is drilled down to hourly level, even the other blocks will get synchronized accordingly.

Symptom	Some System Management Reports Fail in VMware vCenter Deployment
Description	When HPE OBR is logging data from VMware vCenter, some System Management reports are empty or fail to generate.
Resolution	When VMware vCenter is the data source for HPE OBR, only the following System Management reports are populated: <ul style="list-style-type: none"> • SM Executive Summary • SM System Availability Summary • SM System Forecast Summary • SM System Inventory • SM Top and Bottom 5 Systems • SM System Availability Detail • SM System Availability

Symptom	SPI Availability Report Show higher-than-expected “Unknown Time”
Description	HPE OBR sources the data from the respective classes such as DBSPI_ORA_REPORT, EX2007_AVAILABILITY and so on. To compute availability, a post-collection procedure populates the data in the content packs (such as Exchange, WebLogic, WebSphere, Oracle, and Microsoft SQL). The “Unknown Time” is marked when HPE OBR has not received a valid data sample from the agent for a certain period (5 minute sample in SR_ tables).
Resolution	The issue can occur in the following scenarios. Scenario 1:

	<p>If duplicates exist in the dimension table (such as K_CI_Oracle, K_CI_Exchange_Server, and so on), then “Unknown Time” occurrence is possible. In case of duplicates (say two instances), one CI would be old and the other new. The old CI would not have logged data after the new CI entered the system. This duration of the old CI is marked as <i>Unknown Time</i> because no valid data is received from source.</p> <p>Perform the following steps to resolve this issue:</p> <ol style="list-style-type: none"> 1. If you have previous version of HPE OBR, upgrade it to the latest version. 2. Use the <i>Dimension Life Cycle Manager</i> tool to delete the duplicate CIs. <p>For more information on deleting duplicate CIs, see section <i>Managing Dimensions</i> in the <i>HPE Operations Bridge Reporter Administration Guide</i>.</p>
<p>Resolution</p>	<p>Scenario 2:</p> <p>If CODA is facing issues, data logged from Agents will not have the complete set of samples (12 samples per hour). This results in unknown time showing up in HPE OBR reports. For example, although the SPI policy for availability is configured to log data every 5 minutes, the Agent fails to log the complete set of samples every 5 minutes.</p> <p>To fix issues with missing data in CODA, log a case with HP Support for the Agent module.</p>
<p>Resolution</p>	<p>Scenario 1:</p> <p>If the SPI policies pertaining to availability are not configured to log the data every 5 minutes, (and instead logging data for say every 10 minutes), then for an hour HPE OBR will have only 6 samples as against 12 from Agent. This can report 50% unknown time.</p> <p>To resolve this issue, configure the SPI policies to log availability data every 5 minutes.</p> <p>Note: Any other mode of logging will report erroneous availability and also unknown time.</p>

<p>Symptom</p>	<p>Errors when Creating or Modifying HPE OBR Reports</p>
<p>Description</p>	<p>You notice errors which say the required permissions and manifest attributes are missing. Or you encounter the following security exception error when you try to modify the HPE OBR reports.</p>



These issues can occur when a higher version of the Java Development Kit (JDK) is installed on the system. Or when the security settings in Java are rigid and do not allow running applications that are unsigned, self-signed (not signed by trusted authority), and when the applications are missing permission attributes.

Resolution

To resolve this problem, try the following options:

1. Verify that you have the Java Development Kit (JDK) version 1.6 installed on the system. Higher versions of JDK might cause compatibility issues.
2. Go to **Control Panel > Java** . The Java Control Panel window appears.
3. Click the **Security** tab.
4. If your policies allow, lower the security setting by moving down the slider to **Medium**.
5. Add the URL of the HPE OBR host system to the Exception Site List.
 - a. Click **Edit Site List**. The Exception Site List pane appears.
 - b. Click **Add**.
 - c. Enter the URL of the HPE OBR host system. (For example, *http://<hostname>:8080/AnalyticalReporting/*. Click **OK**.
6. Click **Apply**.
7. Click **OK**.
8. Restart the browser.

Symptom	Error Message Appears while Refreshing Audit Reports
Description	<p>The following error message appears when you refresh audit reports by using browser's refresh button:</p> <p>An error occurred while creating a sub-process in the processing server.</p>
Resolution	<p>Import the B0audit.biar file on the SAP BusinessObjects system. The B0audit.biar file is available in the following location:</p> <ul style="list-style-type: none"> • Windows: %PMDB_HOME%\contrib • Linux: \$PMDB_HOME/contrib

	<p>Use SAP BusinessObject's import utility to import the B0audit.biar file.</p> <p>On Windows</p> <p>Click Start and type Import Wizard in Search. The Import Wizard Screen appears.</p> <p>Click on Next to open source and destination screens.</p> <p>To Deploy the BIAR file:</p> <ol style="list-style-type: none"> 1. Choose Business Intelligence Archive Resource(BIAR) File as Source. 2. Select the BIAR file From the file system(you can browse to the file path) and click Next. 3. Choose Destination Environment (CMS Name) as the BO server(HPE OBR Application Server). 4. The BIAR file name. 5. Click Next. 6. Select Clear all, and then check only required objects: <ul style="list-style-type: none"> o Import Application Folders & Objects o Import Repository Objects o Import Universe, then click Next. 7. Choose Update destination object, in case of name conflict, rename it and Click Next. 8. Check all options and then click Next. 9. Click Next. 10. Select the folders and objects then click Next. 11. Click Next on the Select application folders and objects screen. 12. Select the 3rd option from import options for universe and connections, and then click Next. 13. Select the universe(s) from the Universe folder and Universes screen. 14. Select Import recipients..., and then click Next. 15. Click on Finish to complete the deployment. 16. Click on View Detail Log to see the status of deployment, and then click Done. <p>On Linux</p> <p>When HPE OBR is installed on Linux, install the SAP BusinessObjects client tool on a Windows system (BusinessObjectsXI-3.1-Clienttools.zip; available in the packages/BO directory on the HPE OBR Linux media) and follow the steps to import the BIAR file on Windows.</p>
--	--

Symptom	Weblogic CSVs are stuck in Collect folder
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Description	Weblogic CSVs are stuck in Collect folder due to issues in Orchestration.
Resolution	<p>To resolve this issue, follow these steps:</p> <p>On Windows:</p> <ol style="list-style-type: none"> 1. Go to Start > Run, type <code>services.msc</code>. 2. Right-click HPE_PMDB_Platform_Orchestration and click Restart. <p>On Linux: Run the following command:</p> <pre>service HPE_PMDB_Platform_Orchestration restart</pre>

Chapter 6: Troubleshooting Data Source Issues

This section of the guide covers the possible Data Source issues and how you can troubleshoot them.

Operations Agent Data Source Issues

Symptom	Checking Data Availability on Operations Agent using JCODAUTIL?
Resolution	<p>Set the environment variable in the command prompt to get additional options.</p> <pre>C:\>SET CODAMAGIC=0x05201993</pre> <ol style="list-style-type: none">To dump latest data in the data source for all instances, run the following command in the system where Agent is installed: For Windows: %ovinstalldir%/jre64/bin/java -jar %OVINSTALLDIR%/java/jcodautil.jar -dumpds <datasource> Example: %ovinstalldir%/jre64/bin/java -jar %OVINSTALLDIR%/java/jcodautil.jar -dumpds SCOPE For Linux: /opt/HP/BSM/JRE64/bin/java -cp /opt/OV/java/ -jar /opt/OV/java/jcodautil.jar -dumpds <datasource> Example: /opt/HP/BSM/JRE64/bin/java -cp /opt/OV/java/ -jar /opt/OV/java/jcodautil.jar -dumpds SCOPETo dump metric list of a data source and a class, run the following command in the system where HPE OBR is installed: For Windows: %ovinstalldir%/jre64/bin/java -jar %OVINSTALLDIR%/java/jcodautil.jar -n <hostname> -obj Example: %ovinstalldir%/jre64/bin/java -jar %OVINSTALLDIR%/java/jcodautil.jar -n pihpt1.example.domain.com -obj For Linux: /opt/HP/BSM/JRE64/bin/java -cp /opt/OV/java/ -jar /opt/OV/java/jcodautil.jar -n <hostname> -obj Example: /opt/HP/BSM/JRE64/bin/java -cp /opt/OV/java/ -jar /opt/OV/java/jcodautil.jar -n pihpt1.example.domain.com -objTo dump last data for a data source and a class: For Windows: %ovinstalldir%/jre64/bin/java -jar

```
%OVINSTALLDIR%/java/jcodautil.jar -ds <datasource> -o <class> -n
<hostname> -m <comma_separated_metrics> -last
```

Example: %ovinstalldir%/jre64/bin/java -jar
 %OVINSTALLDIR%/java/jcodautil.jar -ds SCOPE -o CPU -n pihpt1.
 example.domain.com -m BYCPU_ID,BYCPU_STATE -last

For Linux: /opt/HP/BSM/JRE64/bin/java -cp /opt/OV/java/ -jar
 /opt/OV/java/jcodautil.jar -ds <datasource> -o <class> -n
 <hostname> -m <comma_separated_metrics> -last

Example: /opt/HP/BSM/JRE64/bin/java -cp /opt/OV/java/ -jar
 /opt/OV/java/jcodautil.jar -ds SCOPE -o CPU -n pihpt1.
 example.domain.com -m BYCPU_ID,BYCPU_STATE -last

4. To dump first data for a data source and a class:

For Windows: %ovinstalldir%/jre64/bin/java -jar
 %OVINSTALLDIR%/java/jcodautil.jar -ds <datasource> -o <class> -n
 <hostname> -m <comma_separated_metrics> -first

Example: %ovinstalldir%/jre64/bin/java -jar
 %OVINSTALLDIR%/java/jcodautil.jar -ds SCOPE -o CPU -n pihpt1.
 example.domain.com -m BYCPU_ID,BYCPU_STATE -first

For Linux: /opt/HP/BSM/JRE64/bin/java -cp /opt/OV/java/ -jar
 /opt/OV/java/jcodautil.jar -ds <datasource> -o <class> -n
 <hostname> -m <comma_separated_metrics> -first

Example: /opt/HP/BSM/JRE64/bin/java -cp /opt/OV/java/ -jar
 /opt/OV/java/jcodautil.jar -ds SCOPE -o CPU -n pihpt1.
 example.domain.com -m BYCPU_ID,BYCPU_STATE -first

5. To dump last hours' summarized (by five min) data for a data source and class:

For Windows: %ovinstalldir%/jre64/bin/java -jar
 %OVINSTALLDIR%/java/jcodautil.jar -ds <datasource> -o <class> -n
 <hostname> -m <comma_separated_metrics_list> -b
 <mm/dd/yyyy.hh:mi:ss> -e <mm/dd/yyyy.hh:mi:ss> -s fivemin

Example: %ovinstalldir%/jre64/bin/java -jar
 %OVINSTALLDIR%/java/jcodautil.jar -ds SCOPE -o CPU -n pihpt1.
 example.domain.com -m BYCPU_ID,BYCPU_STATE -b 07/18/2012.10:00:00
 -e 07/18/2012.11:00:00 -s fivemin

For Linux: /opt/HP/BSM/JRE64/bin/java -cp /opt/OV/java/ -jar
 /opt/OV/java/jcodautil.jar -ds <datasource> -o <class> -n
 <hostname> -m <comma_separated_metrics_list> -b
 <mm/dd/yyyy.hh:mi:ss> -e <mm/dd/yyyy.hh:mi:ss> -s fivemin

Example: /opt/HP/BSM/JRE64/bin/java -cp /opt/OV/java/ -jar
 /opt/OV/java/jcodautil.jar -ds SCOPE -o CPU -n pihpt1.
 example.domain.com -m BYCPU_ID,BYCPU_STATE -b 07/18/2012.10:00:00
 -e 07/18/2012.11:00:00 -s fivemin

6. To dump last hours' raw data for a data source and class:

For Windows: %ovinstalldir%/jre64/bin/java -jar %OVINSTALLDIR%/java/jcodautil.jar -ds <datasource> -o <class> -n <hostname> -m <comma_separated_metrics_list> -b <mm/dd/yyyy.hh:mi:ss> -e <mm/dd/yyyy.hh:mi:ss> -raw

Example: %ovinstalldir%/jre64/bin/java -jar %OVINSTALLDIR%/java/jcodautil.jar -ds SCOPE -o CPU -n pihpt1.example.domain.com -m BYCPU_ID,BYCPU_STATE -b 07/18/2012.10:00:00 -e 07/18/2012.11:00:00 -raw

For Linux: /opt/HP/BSM/JRE64/bin/java -cp /opt/OV/java/ -jar /opt/OV/java/jcodautil.jar -ds <datasource> -o <class> -n <hostname> -m <comma_separated_metrics_list> -b <mm/dd/yyyy.hh:mi:ss> -e <mm/dd/yyyy.hh:mi:ss> -raw

Example: /opt/HP/BSM/JRE64/bin/java -cp /opt/OV/java/ -jar /opt/OV/java/jcodautil.jar -ds SCOPE -o CPU -n pihpt1.example.domain.com -m BYCPU_ID,BYCPU_STATE -b 07/18/2012.10:00:00 -e 07/18/2012.11:00:00 -raw

7. To dump last hours' summarized (by five min) data for a data source and class in a CSV format:

For Windows: %ovinstalldir%/jre64/bin/java -jar %OVINSTALLDIR%/java/jcodautil.jar -ds <datasource> -o <class> -n <hostname> -m <comma_separated_metrics_list> -b <mm/dd/yyyy.hh:mi:ss> -e <mm/dd/yyyy.hh:mi:ss> -s fivemin -l ", " > file.csv

Example: %ovinstalldir%/jre64/bin/java -jar %OVINSTALLDIR%/java/jcodautil.jar -ds SCOPE -o CPU -n pihpt1.example.domain.com -m BYCPU_ID,BYCPU_STATE -b 07/18/2012.10:00:00 -e 07/18/2012.11:00:00 -s fivemin > cpu.csv

For Linux: /opt/HP/BSM/JRE64/bin/java -cp /opt/OV/java/ -jar /opt/OV/java/jcodautil.jar -ds <datasource> -o <class> -n <hostname> -m <comma_separated_metrics_list> -b <mm/dd/yyyy.hh:mi:ss> -e <mm/dd/yyyy.hh:mi:ss> -s fivemin -l ", " > file.csv

Example: /opt/HP/BSM/JRE64/bin/java -cp /opt/OV/java/ -jar /opt/OV/java/jcodautil.jar -ds SCOPE -o CPU -n pihpt1.example.domain.com -m BYCPU_ID, BYCPU_STATE -b 07/18/2012.10:00:00 -e 07/18/2012.11:00:00 -s fivemin > cpu.csv

Symptom

Operations Agent Connectivity Issues

Description	Operations Agent Connectivity Issues, check the reachability and availability of data source for reporting.
Resolution	<p>Perform the following steps:</p> <ol style="list-style-type: none"> 1. Check that the host is reachable. <p>For Windows: -ping <hostname></p> <p>For Linux: ping -n <hostname></p> <p>If ping fails, check the connectivity to the host.</p> <p>Note: If the node is behind a firewall, ping might be blocked.</p> 2. Check to see if the agent is up and running using following command: <p>For Windows: %ovinstalldir%/jre64/bin/java -jar %OVINSTALLDIR%/java/jcodautil.jar -ping <hostname></p> <p>For Linux: /opt/HP/BSM/JRE64/bin/java -cp /opt/OV/java/ -jar /opt/OV/java/jcodautil.jar -ping -n <hostname></p> <p>Ping of OvBbcCb and CODA should be successful. But if the jcodautil ping fails, check the status of agent by running ovc -status command on the agent system and check that all the services are running as shown in the following sample output:</p> <pre data-bbox="456 1037 1362 1255"> # ovc -status coda OV Performance Core COREXT (14434) Running opcmsgi OVO Message Interceptor AGENT,EA (14444) Running ovbbccb OV Communication Broker CORE (14425) Running ovcd OV Control CORE (14424) Running ovconfd OV Config and Deploy COREXT (14426) Running # </pre>

Symptom	Empty CPU Data for Last Two Days
Description	No data availability on source
Resolution	<p>Perform the following steps:</p> <ol style="list-style-type: none"> 1. Check that the host is reachable. <p>For Windows: -ping <hostname></p> <p>For Linux: ping -n <hostname></p> <p>If ping fails, check the connectivity to the host.</p> <p>Note: If the node is behind a firewall, ping might be blocked.</p> 2. Check to see if the agent is up and running using the following command:

For Windows: %ovinstalldir%/jre64/bin/java -jar %OVINSTALLDIR%/java/jcodautil.jar -ping -n <hostname>

For Linux: /opt/HP/BSM/JRE64/bin/java -cp /opt/OV/java/ -jar /opt/OV/java/jcodautil.jar -ping -n <hostname>

Ping of OvBbcCb and CODA should be successful. But if the jcodautil ping fails, check the status of agent by running ovc -status command on the agent system and check that all the services are running as shown in the following sample output:

```
# ovc -status
coda      OV Performance Core      COREXT      (14434)  Running
opcmsgi   OVO Message Interceptor    AGENT,EA    (14444)  Running
ovbbccb   OV Communication Broker     CORE        (14425)  Running
ovcd      OV Control                   CORE        (14424)  Running
ovconfd   OV Config and Deploy        COREXT      (14426)  Running
#
```

3. Check to see if data is being collected and logged in Operations Agent by running the following command:

For Windows: %ovinstalldir%/jre64/bin/java -jar %OVINSTALLDIR%/java/jcodautil.jar -ds SCOPE -o CPU -m BYCPU_ID,BYCPU_CPU_TOTAL_UTIL -last -n <hostname>

Example: %ovinstalldir%/jre64/bin/java -jar %OVINSTALLDIR%/java/jcodautil.jar -ds SCOPE -o CPU -m BYCPU_ID,BYCPU_CPU_TOTAL_UTIL -last -n p1at1. example.domain.com

For Linux: /opt/HP/BSM/JRE64/bin/java -cp /opt/OV/java/ -jar /opt/OV/java/jcodautil.jar -ds SCOPE -o CPU -m BYCPU_ID,BYCPU_CPU_TOTAL_UTIL -last -n <hostname>

Example: /opt/HP/BSM/JRE64/bin/java -cp /opt/OV/java/ -jar /opt/OV/java/jcodautil.jar -ds SCOPE -o CPU -m BYCPU_ID,BYCPU_CPU_TOTAL_UTIL -last -n p1at1. example.domain.com

Time	CPU	Total
Stamp	ID	CPU %
03/26/12 5:05:00	0	0.78
03/26/12 5:05:00	1	1.92
03/26/12 5:05:00	2	2.33
03/26/12 5:05:00	3	2.07
03/26/12 5:05:00	4	1.19
03/26/12 5:05:00	5	2.45

Time	CPU	Total
03/26/12 5:05:00	6	1.17
03/26/12 5:05:00	7	1.10

If you don't see data for the last two days, contact HP Support.

Symptom	Data Holes in Reports
Description	No data availability on source
Resolution	<p>Perform the following steps:</p> <ol style="list-style-type: none"> Check that the host is reachable. <ul style="list-style-type: none"> For Windows: <code>-ping <hostname></code> For Linux: <code>ping -n <hostname></code> <p>If ping fails, check the connectivity to the host.</p> <p>Note: If the node is behind a firewall, ping might be blocked.</p> Check to see if the agent is up and running using following command: <ul style="list-style-type: none"> For Windows: <code>%ovinstalldir%/jre64/bin/java -jar %OVINSTALLDIR%/java/jcodautl.jar -ping -n <hostname></code> For Linux: <code>/opt/HP/BSM/JRE64/bin/java -cp /opt/OV/java/ -jar /opt/OV/java/jcodautl.jar -ping -n <hostname></code> <p>Ping of OvBbcCb and Coda should be successful. But if the jcodautl ping fails, check the status of agent by running <code>ovc -status</code> command on the agent system and check that all the services are running as shown in the following sample output:</p> <pre># ovc -status coda OV Performance Core COREXT (14434) Running opcmsgi OVO Message Interceptor AGENT,EA (14444) Running ovbbccb OV Communication Broker CORE (14425) Running ovcd OV Control CORE (14424) Running ovconfd OV Config and Deploy COREXT (14426) Running #</pre> Run the following command to check if you have one row every five minutes between the given start and end time: <p>Start and end time format are mm/dd/yyyy.hh:mi:ss.</p> <ul style="list-style-type: none"> For Windows: <code>%ovinstalldir%/jre64/bin/java -jar %OVINSTALLDIR%/java/jcodautl.jar -ds SCOPE -o GLOBAL -m GBL_MEM_UTIL,GBL_CPU_TOTAL_UTIL,GBL_DISK_UTIL -b 03/25/2013.10:00:00 -e 03/25/2013.11:00:00 -n piat1. example.domain.com</code>


```

For Linux: /opt/HP/BSM/JRE64/bin/java -cp /opt/OV/java/ -jar
/opt/OV/java/jcodautil.jar -ds SCOPE -o GLOBAL -m GBL_MEM_
UTIL,GBL_CPU_TOTAL_UTIL,GBL_DISK_UTIL -b 03/25/2013.10:00:00 -e
03/25/2013.11:00:00 -n piat1. example.domain.com

# ovcodautil -ds SCOPE -o GLOBAL -m GBL_MEM_UTIL,GBL_CPU_TOTAL_UTIL,GBL_DISK_UTIL -h 03/25/2013.10:00:00 -e 03/25/2013.11:00:00 -n piat1.ind.hp.com
Time           Memory
Stamp          CPU %      %
03/25/13 10:00:00    1.77    88.70
03/25/13 10:05:00    2.00    88.75
03/25/13 10:10:00    1.69    88.74
03/25/13 10:15:00    1.64    88.75
03/25/13 10:20:00    1.65    88.75
03/25/13 10:25:00    1.44    88.75
03/25/13 10:30:00    1.50    88.75
03/25/13 10:35:00    1.66    88.75
03/25/13 10:40:00    1.48    88.75
03/25/13 10:45:00    1.62    88.75
03/25/13 10:50:00    1.53    88.75
03/25/13 10:55:00    1.33    88.75

```

Symptom	Missing Dimensions – HPE OBR Displays One Instance when Multiple Instances Exist
Description	No data availability on source.
Resolution	<p>Perform the following steps:</p> <ol style="list-style-type: none"> 1. Check that the host is reachable. <ul style="list-style-type: none"> For Windows: -ping <hostname> For Linux: ping -n <hostname> <p>If ping fails, check the connectivity to the host.</p> <p>Note: If the node is behind a firewall, ping might be blocked.</p> 2. Check to see if the agent is up and running using the following command: <ul style="list-style-type: none"> For Windows: %ovinstalldir%/jre64/bin/java -jar %OVINSTALLDIR%/java/jcodautil.jar -ping -n <hostname> For Linux: /opt/HP/BSM/JRE64/bin/java -cp /opt/OV/java/ -jar /opt/OV/java/jcodautil.jar -ping -n <hostname> <p>Ping of OvBbcCb and Coda should be successful. But if the jcodautil ping fails, check the status of agent by running ovc -status command on the agent system and check that all the services are running as shown in the following sample output:</p>

```
# ovc -status
coda          OV Performance Core          COREXT      (14434)  Running
opcmgsi       OVO Message Interceptor             AGENT,EA    (14444)  Running
ovbbccb       OV Communication Broker             CORE        (14425)  Running
ovcd          OV Control                           CORE        (14424)  Running
ovconfd       OV Config and Deploy                COREXT      (14426)  Running
#
```

3. Check the availability and integrity of data sources by performing the following steps:

a. Launch the following page:

`http://<HPE OBR Server FQDN>:<port>/BSMRApp/dscheck.jsf`

b. To check the data sources in the Operations Agent, click **PA**.

Click **View** to see the results. Results include a status summary of nodes and missing policies.

4. Check the last logged data time stamp for each instance. Check that all missing instances are listed and that the time stamp is the same as with the instance that displays data in HPE OBR.

```
%ovinstalldir%/jre64/bin/java -jar
%OVINSTALLDIR%\java\jcodutil.jar -ds DBSPI_ORA_REPORT -o DBSPI_
ORA_REPORT -last -n <hostname>
```

```
C:\> %ovinstalldir%/jre64/bin/java -jar
%OVINSTALLDIR%\java\jcodutil.jar -ds
DBSPI_ORA_REPORT -o DBSPI_ORA_REPORT -last -n USNYCDBS
example.test.com
```

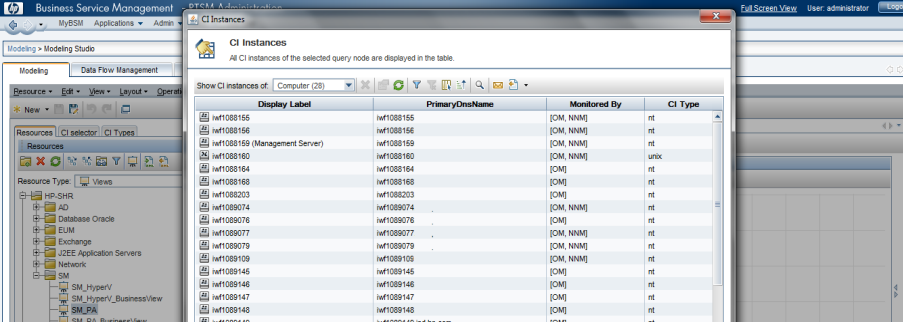
=== 03/26/13 9:15:00 PM	
Instance	0
INSTANCENAME	p123
METRICID	119.00
VALUEID	1.00
VALUE	109.71
SYSTEMID	example.test.com
OBJECTID	p123
=== 03/26/13 9:15:00 PM	
Instance	1

	INSTANCENAME	p123
	METRICID	201.00
	VALUEID	1.00
	VALUE	5.00
	SYSTEMID	example.test.com
	OBJECTID	p123

Symptom	Microsoft SQL servers take up a new CIID when data sources are recreated in HPOM
Description	The collection module obtains same Microsoft SQL server instance with a different CIID when data sources are recreated on the HPOM because the instance key metrics of SPI is used to generate the CI_UID. When DSI logging is enabled (default mode) on the SPI source instead of the HPOM, no metrics are marked as key metrics. But, if it is changed, the instance_name becomes a key metric which generates a different CI_UID.
Resolution	Create the %OVDATADIR\conf\dsi2ddf\nocoda.opt file in Windows and the /var/opt/OV/conf/dsi2ddf/nocoda.opt file in Linux to make the SPI log to HPOM instead of DSI (on recreation) so that HPE OBR always obtains the key metrics.

Symptom	Data loading into HPE OBR fails due to NaN values
Description	When data collection from Operations Agent attempts to load Not a Number (NaN) values into the numeric columns of fact tables, data type conversion errors are seen. The error can be viewed from the Administration Console > Internal Monitoring > Data Process Status > Content Pack Component Name (SysPerf_Domain) where a count of errors is listed.
Resolution	Browse to the {PMDB.HOME}/config/collection.properties file and add the following property: pa.metric.default.metric.list=10,13. Restart the HPE_PMDB_Platform_Collection service. All NaN values are replaced and data loading occurs properly. Note: This workaround might impact performance because each metric collected from the Operations Agent data source undergoes validation.

Symptom	Finding Attribute Value for the CI Type – Operations Agent
----------------	---

Description	Finding Attribute Value for the CI Type – Operations Agent.
Resolution	<p>Perform these steps:</p> <ol style="list-style-type: none"> 1. Right-click Computer and select Show Element Instances. A pop up appears with the CI instances and their attributes.  <ol style="list-style-type: none"> 2. If the PrimaryDnsName attribute of Computer CI Type is blank for a CI's (host) in that view, it will not be configured for collecting performance metrics. To verify whether the same number of data sources is discovered in HPE OBR, follow the steps: <ol style="list-style-type: none"> a. Log on to the Administration Console: <code>http://<hostname>:21411/OBRApp</code> b. Navigate to the Data Source Configuration page. c. Click Operations Agent to verify the number of data sources.

RTSM Data Source Issues

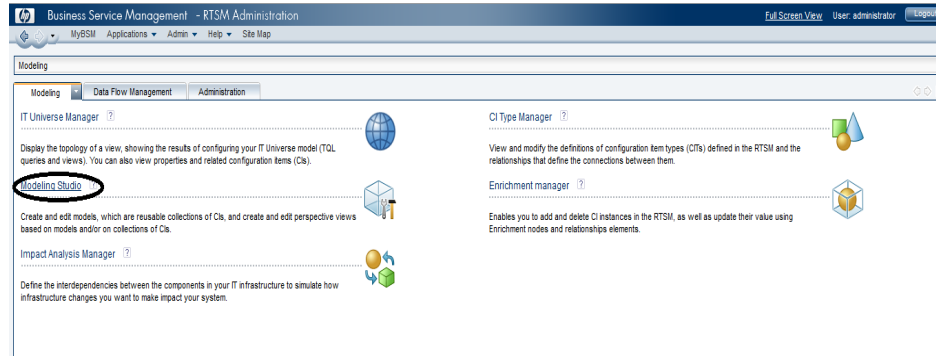
Symptom	Test Connection on Administration Console to RTSM Fails
Description	Test Connection on Administration Console to RTSM Fails
Resolution	For a BSM distributed setup, ensure that you have provided the hostname and port of the Gateway Server. Also, for the distributed BSM deployment with multiple gateway servers and load balancer configured, type the virtual IP address of the load balancer as the hostname.

Symptom	Data Collection from RTSM - discovered Operations Agent Nodes Fails
Description	Data Collection from RTSM - discovered Operations Agent Nodes Fails
Resolution	Perform these steps:

1. Log on to BSM console from the URL `http://<bsm_host_name>/topaz`.
2. Navigate to **Admin > RTSM Administration**.



3. Navigate to Modeling Studio.

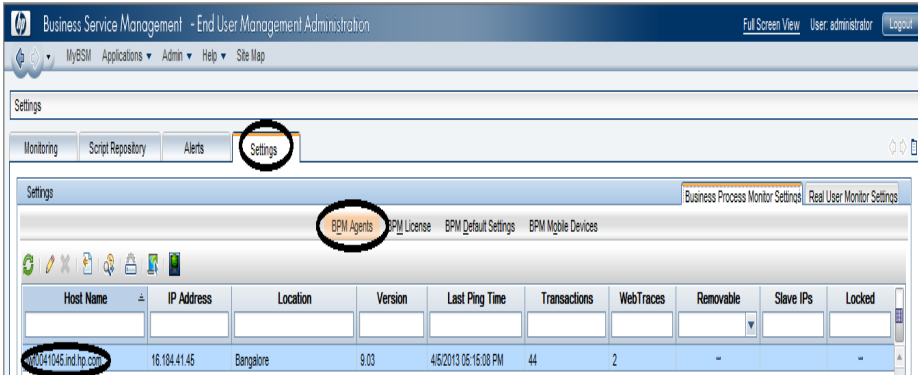


4. On the **Resources** tab, expand **HP-SHR > SM > SM_PA** and double-click **SM_PA view**.
5. On the right hand pane, the view appears. Click the calculator icon and check the number of instances of Configuration Item (CI) Type Computer.

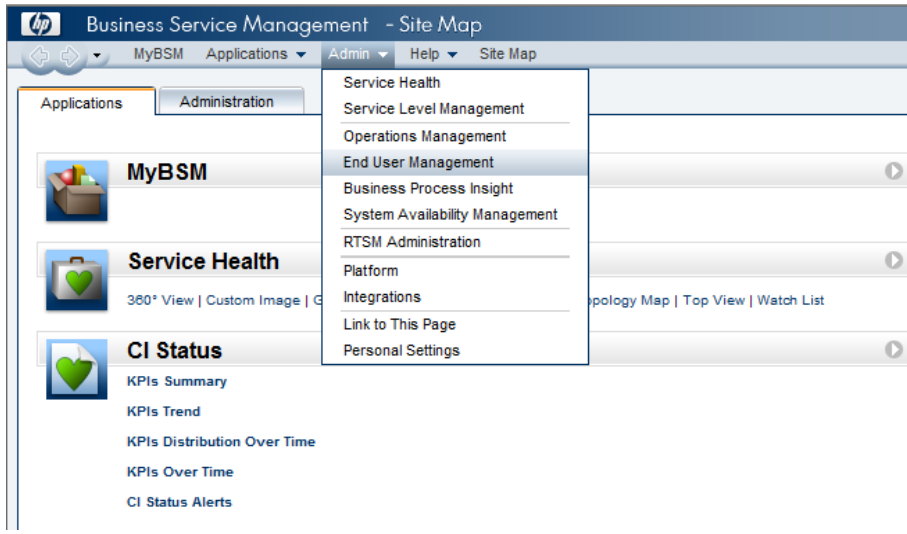
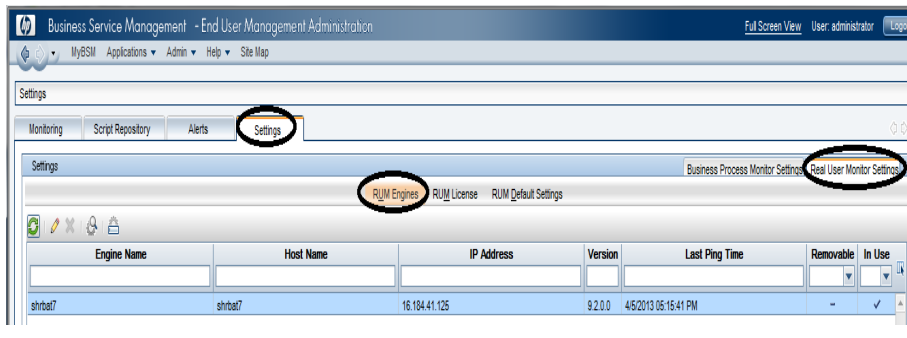
In the preceding sample, there are 28 instances of CI Type Computer. This indicates that there must be 28 agent data sources from where HPE OBR collects performance metrics and reports on System Infrastructure Management.

<p>Symptom</p>	<p>Getting Number of objects visited by compound link calculation is [20000001], while the limit is configured to [20000000] with large RTSM setup</p>
<p>Description</p>	<p>The <i>Number of objects visited by compound link calculation limit</i> by default is configured to [20000000] in the <code>tq1.compound.link.max.visited.objects</code> property.</p> <p>You may get <i>Number of objects visited by compound link calculation</i> is [200000001], while the limit is configured to [20000000].</p>
<p>Resolution</p>	<p>To resolve this issue, perform these steps:</p> <ol style="list-style-type: none"> 1. Log on to the JMX console on the DPS server. 2. Go to UCMDB:Service=Settings Services 3. Modify the setSettingValue <ol style="list-style-type: none"> a. customerID: 1 b. name: <code>tq1.compound.link.max.visited.objects</code> c. value: <code>400000000</code> 4. Restart the HPE OBR collection service and verify the <code>topologycollector.log</code> for errors.

BPM and RUM Data Source Issues

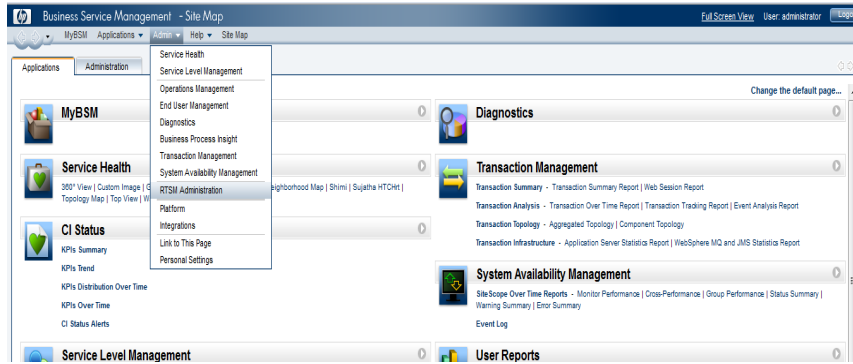
Symptom	Checking Whether BPM Agents are configured
Description	Checking Whether BPM Agents are configured
Resolution	<p>Perform the following steps:</p> <ol style="list-style-type: none"> 1. Log on to BSM console from the URL <code>http://<bsm_host_name>/topaz</code>. 2. Go to Admin > End User Management.  <p>The screenshot shows the Business Service Management Site Map. The 'Admin' menu is open, and 'End User Management' is highlighted. Other menu items include Service Health, Service Level Management, Operations Management, Business Process Insight, System Availability Management, RTSM Administration, Platform, Integrations, Link to This Page, and Personal Settings.</p> <ol style="list-style-type: none"> 3. Navigate to Settings > select Business Process Monitor Settings and select BPM Agents.  <p>The screenshot shows the Business Service Management Settings page. The 'Settings' tab is selected, and the 'BPM Agents' sub-tab is highlighted. Below the tabs is a table with columns: Host Name, IP Address, Location, Version, Last Ping Time, Transactions, WebTraces, Removable, Slave IPs, and Locked. The first row contains the following data: <code>ms041045.mcl.hp.com</code>, 16.104.41.45, Bangalore, 9.03, 4/5/2013 05:15:08 PM, 44, 2, -, -, -.</p> <ol style="list-style-type: none"> 4. Verify that BPM Agents are configured in BSM.

Symptom	Checking Whether RUM Agents are configured
----------------	---

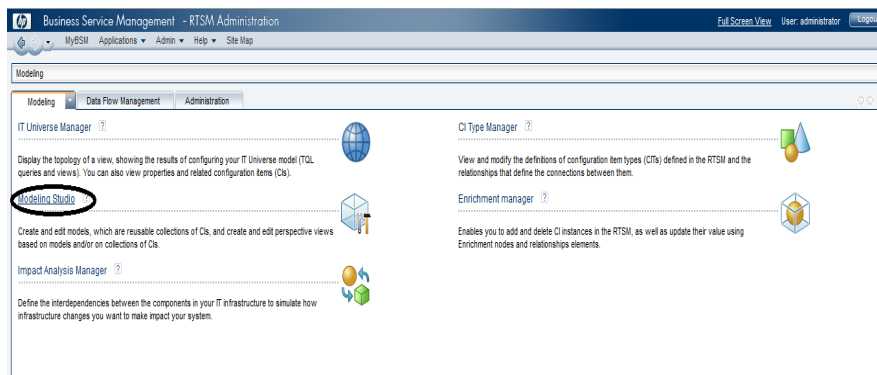
Description	Checking Whether RUM Agents are configured														
Resolution	<p>To check whether Real User Monitor (RUM) agents are configured, perform the following steps:</p> <ol style="list-style-type: none"> 1. Log on to BSM console from the URL <code>http://<bsm_host_name>/topaz</code>. 2. Go to Admin > End User Management. 														
	 <p>The screenshot shows the Business Service Management console interface. The 'Admin' menu is open, and 'End User Management' is selected. The main content area shows 'MyBSM', 'Service Health', and 'CI Status' sections.</p>														
	<ol style="list-style-type: none"> 3. Navigate to Settings > Real User Monitoring Settings and select RUM Engines. 														
	 <p>The screenshot shows the 'Settings' page in the Business Service Management console. The 'Settings' tab is selected, and the 'RUM Engines' link is circled. Below it, the 'Real User Monitor Settings' link is also circled. A table of RUM engines is visible at the bottom.</p> <table border="1" data-bbox="454 1344 1356 1449"> <thead> <tr> <th>Engine Name</th> <th>Host Name</th> <th>IP Address</th> <th>Version</th> <th>Last Ping Time</th> <th>Removable</th> <th>In Use</th> </tr> </thead> <tbody> <tr> <td>shrbat7</td> <td>shrbat7</td> <td>16.104.41.125</td> <td>9.2.0.0</td> <td>4/5/2013 05:15:41 PM</td> <td>-</td> <td>✓</td> </tr> </tbody> </table>	Engine Name	Host Name	IP Address	Version	Last Ping Time	Removable	In Use	shrbat7	shrbat7	16.104.41.125	9.2.0.0	4/5/2013 05:15:41 PM	-	✓
Engine Name	Host Name	IP Address	Version	Last Ping Time	Removable	In Use									
shrbat7	shrbat7	16.104.41.125	9.2.0.0	4/5/2013 05:15:41 PM	-	✓									
	<ol style="list-style-type: none"> 4. Verify whether RUM engine is configured in BSM. 														

SiteScope Data Source Issues

Symptom	How many SiteScope servers is HPE OBR reporting on?
Resolution	<ol style="list-style-type: none"> 1. Log on to BSM admin console from the URL <code>http://<bsm_host_name>/topaz</code>. 2. Navigate to Admin > RTSM Administration.

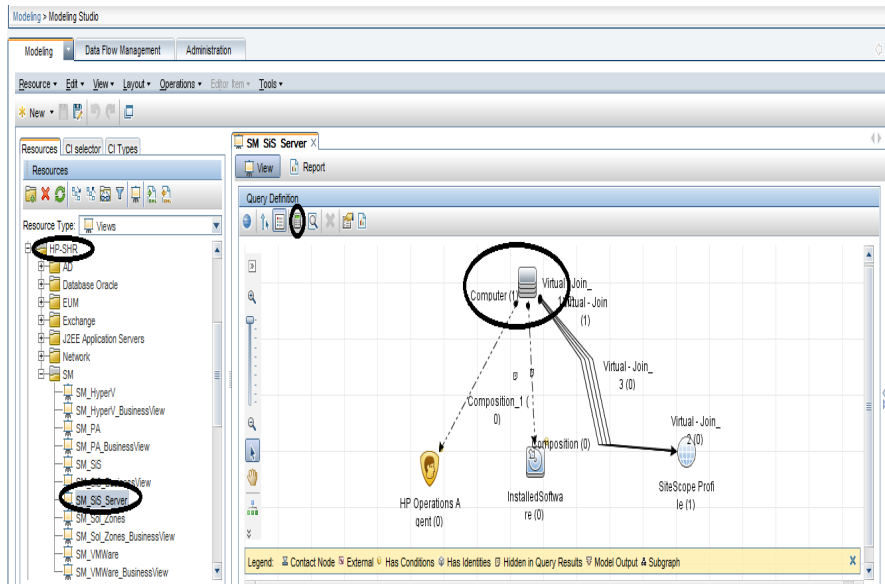


3. Navigate to Modeling Studio.



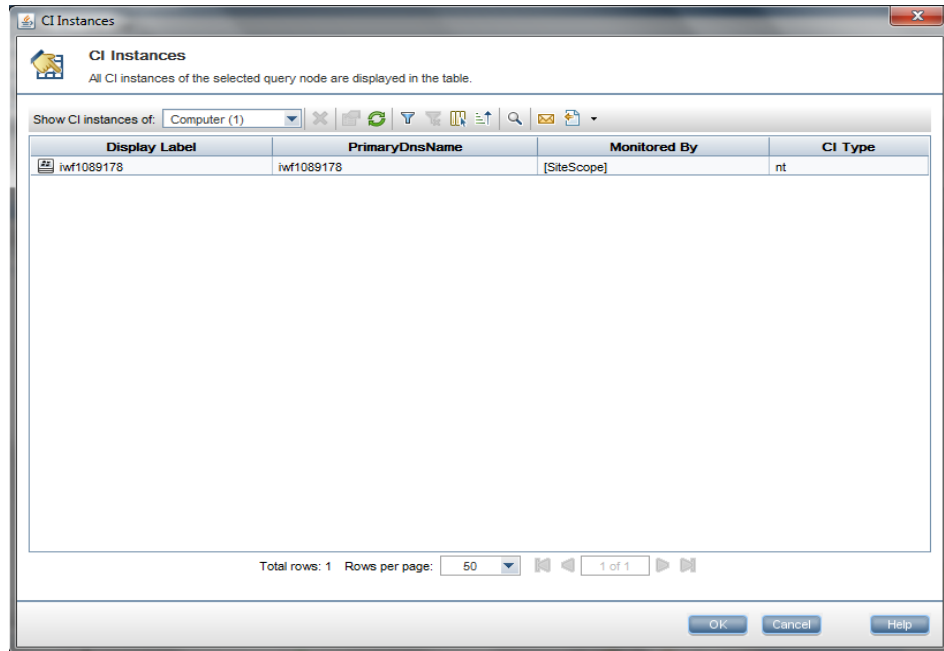
4. From the **Resources** tab, expand **HP-SHR > SM > SM_SiS_Server** and double-click **SM_SiS_Server** view.

5. On the right-hand pane with view detail, the instances of CI Type *Computer* are the number of SiteScope Servers that HPE OBR reports on.



6. To check the SiteScope servers, right-click on the **Computer** CI type and select

Show Element Instances. Check the PrimaryDnsName attribute. HPE OBR uses this attribute to configure collection and get the performance metrics about the remote servers configured on SiteScope.

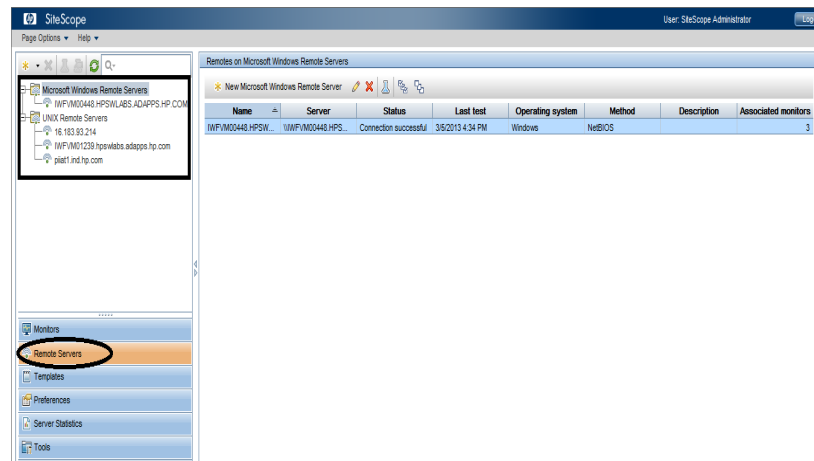


Symptom

How many Servers (Windows/UNIX) does SiteScope Server Monitor?

Resolution

1. Log on to SiteScope server using the following URL:
`http://<hostname>:8080/SiteScope/servlet`
2. Go to Remote Server.

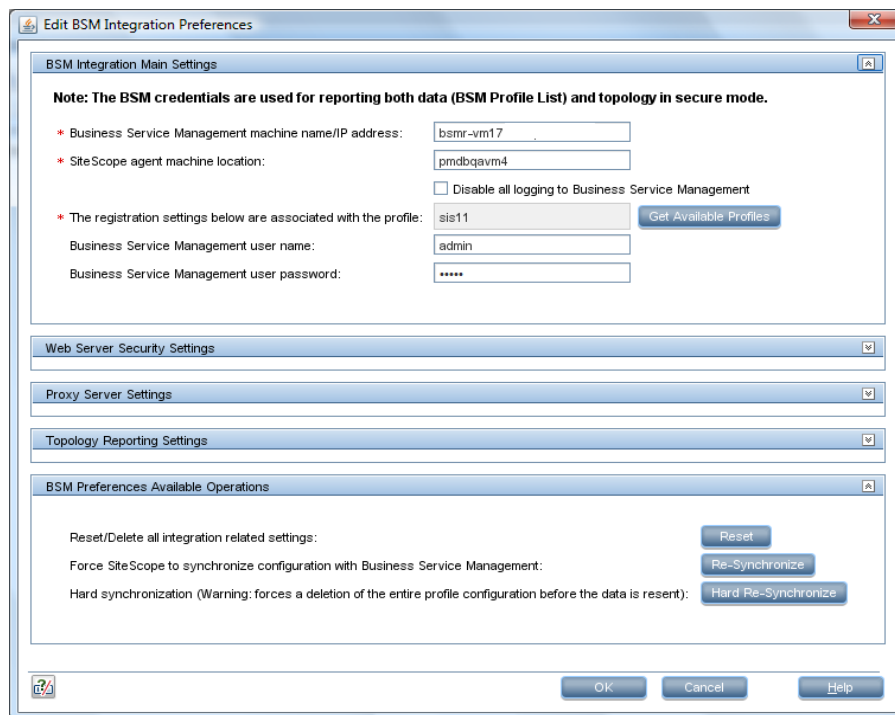
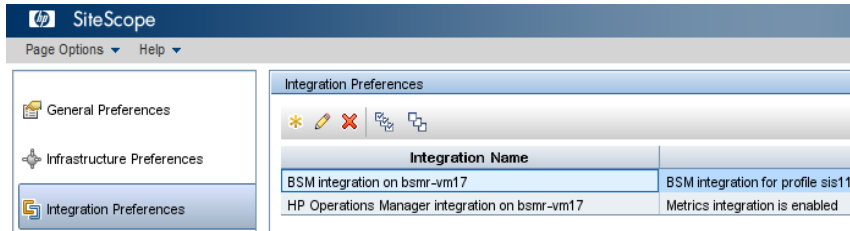


Symptom

Checking Whether BSM Integration is enabled on the SiteScope Server

Resolution

1. Log on to SiteScope home page.
2. Go to **Preferences > Integration Preferences**.
3. An integration entry for BSM appears when SiteScope is added in BSM.



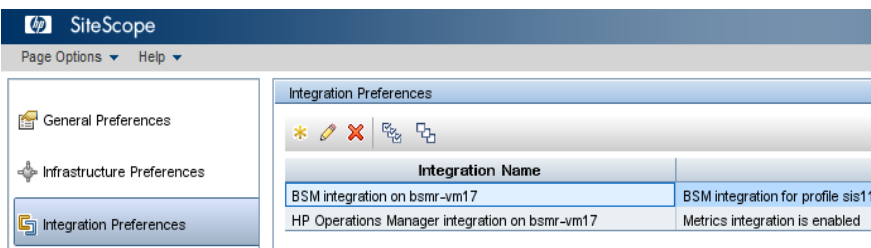
All managed nodes from SiteScope are automatically synced to BSM when the integration is complete. You can perform a Re-Synchronize or Hard Re-Synchronize operation if required.

Symptom

Checking Whether CODA Integration is enabled on the SiteScope Server

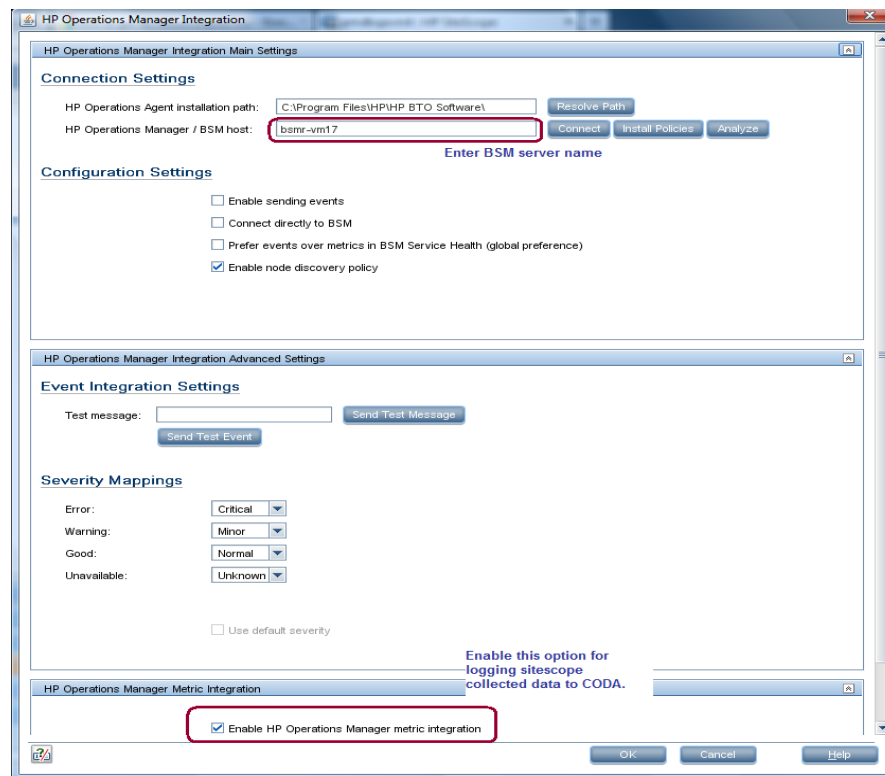
Resolution

1. Log on to SiteScope home page.
2. Go to **Preferences > Integration Preferences**.
3. An integration entry for BSM appears when SiteScope is integrated to CODA.



4. If integration is not listed in the above screen, Click on the * icon and select **HP Operations Manager Integration**.

Enable SiteScope to integrate with Operations Agent for data logging. For more information, see the *Working with Operations Manager and BSM Using the Operations Agent* chapter of the *Using SiteScope Guide*.



Symptom	Checking Data Availability for SiteScope Performance Metrics in CODA
Resolution	<ol style="list-style-type: none"> 1. HPE OBR queries CODA data store running on SiteScope server to get performance metrics for reporting. 2. The data source that HPE OBR queries to get SiteScope data is AGENTLESS. 3. HPE OBR queries follow classes within AGENTLESS data source to get performance data.

	<ul style="list-style-type: none"> a. GLOBAL b. MEMORY c. DISK d. SYSTEM e. QUEUE__LENGTH f. QUEUE__STATISTICS g. UPTIME h. PHYSICALDISK i. IO__STATS j. NETIF k. NETWORK__INTERFACE l. NETWORK__STATS m. CPU n. FILESYSTEM <p>4. See the <i>Troubleshooting Operations Agent Data Source Issues</i> for details on how to check availability for a class and data source.</p>
--	--

Symptom	Mapper (data transformation step) crashes when collecting data from SiteScope Profile Database
Description	When HPE OBR collects system performance data (initial history) from the SiteScope profile database, the mapper crashes due to low system memory.
Resolution	Browse to the {PMDB.HOME}/config/collection.properties file. Edit this property-- <code>mapper.memory.map.size=30000</code> . The default value is 30,000. Decrease the value (for example: 20000) until mapper runs smooth with available memory.

Symptom	Out of Memory Error with Mapper during SiteScope/HP Reporter Data Processing
Description	Mapper goes "out of memory" when processing data from SiteScope/HP Reporter when all metrics expected by HPE OBR are not being logged with valid data.
Resolution	<p>You can tune the following parameters to handle this issue:</p> <ul style="list-style-type: none"> • Add or update <code>mapper.incomplete.data.dump.batch=30000</code> in the {PMDB_HOME}/config/collection.properties file to batch the data in chunks for handling high load scenarios. • Add or update <code>mapper.incomplete.data.indicator=true</code> in {PMDB_HOME}/config/collection.properties file to indicate mapper to take up the preceding batching logic. • Update <code>mapper.cache.key.retry.count=2</code> in {PMDB_HOME}

/config/collection.properties file to indicate mapper to wait only for a couple of runs for processing late arriving data.

Symptom	Files are getting piled up in {PMDB_HOME}/extract folder
Description	<ol style="list-style-type: none"> 1. The XML files are getting piled up in {PMDB_HOME}/extract/extract_sis/gdi/xml 2. The data is piling up in {PMDB_HOME}/extract/extract_sis/gdi/data/<sis_metric_monitor_folders>
Resolution	<ol style="list-style-type: none"> 1. To resolve the issue in Description 1, contact the SiteScope support for the hotfix for the SiteScope versions 11.30, 11.31, 11.32. 2. To resolve the issue in Description 2, go to {PMDB_HOME}/config folder, add the following parameters to collection.properties file: <ul style="list-style-type: none"> ◦ sis.aggregate.thread.count=100 The default value is 50. Setting the value to 100 helps to process more data. ◦ sis.aggregate.reload.interval.mins=0 The default value is 5. Setting the value to 0 helps to process the batch one after the other without any wait. ◦ sis.data.extract.maintjob.freq=15 The default value is 5. This parameter controls the outflow from XML. ◦ sis.rolling.file.batchsize=100000 This parameter controls the outflow from XML. <p>Restart the HPE_PMDB_Platform_Collection service as follows:</p> <p>On Windows:</p> <ol style="list-style-type: none"> a. From the Run dialog box, type services.msc, and then press Enter. The Services window opens. b. On the right pane, right-click HPE_PMDB_Platform_Collection, and then click Restart. <p>On Linux</p> <ol style="list-style-type: none"> a. Go to /etc/init.d and run the following command: <pre>service HPE_PMDB_Platform_Collection restart</pre>

HPOM Data Source Issues

Symptom	HPOM Policy for alerts on Linux does not exist
Description	<p>The OM policies shipped with the product in \$PMDB_HOME/config folder were installed as per instructions provided. This is done to monitor services through OM policies. The expectation is to receive alerts on OM when HPE OBR services on Linux go down.</p> <p>To test the policy, services were brought down manually but no alert was sent to OM. A Linux version of HPOM Policies for alerts is required.</p>
Resolution	<p>To resolve this issue, perform these steps:</p> <p>List of Policy:</p> <ul style="list-style-type: none"> SHR_collection_pause SHR_collection_jobs SHR_hourly_tables SHR_daily_tables SHR_insufficient_vm SHR_streams SHR_boinfoview_connectivity SHR_dwh_connectivity SHR_mgmt_connectivity SHR Windows Collector Service SHR Windows Service SHR ABC Process Count SHR PostgreSQL Database Process SHR Sybase IQ Database Process <ol style="list-style-type: none"> 1. Perform these steps on OM server to extract the policies: <ol style="list-style-type: none"> a. Copy the SHR_OM_Policies.zip to a temp folder and extract it. b. Go to <temp_folder>\SHR_OM_Policies folder. 2. Perform these steps on OM server to install the policies: <ol style="list-style-type: none"> a. Go to <temp_folder> b. Run following command: <p>On Windows: ovpmutil cfg pol upl <full_path_to_temp_folder>/SHR_OM_Policies/PolicyConfig_0.xml</p>

On Linux: /opt/OV/bin/OpC/Utils/opcpolicy -upload dir=<full_path_to_temp_folder>/SHR_OM_Policies mode=replace

On a successful run of the preceding command, OM displays the policies with version 0920.0 under Policy Groups/SHR_SelfMonitoring in the HPOM console.

3. You will see the following on HPE OBR server:

- Following entries in %PMDB_HOME%\lib\trendtimer.sched
- #Every 3 hours monitoring jobx
 - 03:00 - - {PMDB_HOME}/bin/shr_utility -systemcheck -name dwh_connectivity -l {PMDB_HOME}/temp -sendomevent
 - 03:00 - - {PMDB_HOME}/bin/shr_utility -systemcheck -name mgmt_connectivity -l {PMDB_HOME}/temp -sendomevent
 - 03:00 - - {PMDB_HOME}/bin/shr_utility -systemcheck -name boinfoview_connectivity -l {PMDB_HOME}/temp -sendomevent
 - 03:00 - - {PMDB_HOME}/bin/shr_utility -systemcheck -name collection_pause -l {PMDB_HOME}/temp -sendomevent
 - 03:00 - - {PMDB_HOME}/bin/shr_utility -systemcheck -name collection_job -l {PMDB_HOME}/temp -sendomevent
- #Every 6 hours monitoring jobx
 - 06:00 - - {PMDB_HOME}/bin/shr_utility -systemcheck -name hourly_tables -l {PMDB_HOME}/temp -sendomevent
- #Every 6 hours monitoring jobx
 - 24:00+1:00 - - {PMDB_HOME}/bin/shr_utility -systemcheck -name daily_tables -l {PMDB_HOME}/temp -sendomevent
 - 24:00+1:00 - - {PMDB_HOME}/bin/shr_utility -systemcheck -name streams -l {PMDB_HOME}/temp -sendomevent
 - 24:00+1:00 - - {PMDB_HOME}/bin/shr_utility -systemcheck -name insufficient_vms -l {PMDB_HOME}/temp -sendomevent

4. Perform these steps on HPE OBR server to configure email alerts once a day:

- Following entries are found in the location %PMDB_HOME%\lib\trendtimer.sched
 - 24:00+1:00 - - {PMDB_HOME}/bin/shr_utility -systemcheck -l {PMDB_HOME}/temp -sendemail
- Edit %PMDB_HOME%/data/config.prp and add following properties to send email:
 - email.to=
 - email.from=
 - email.host=

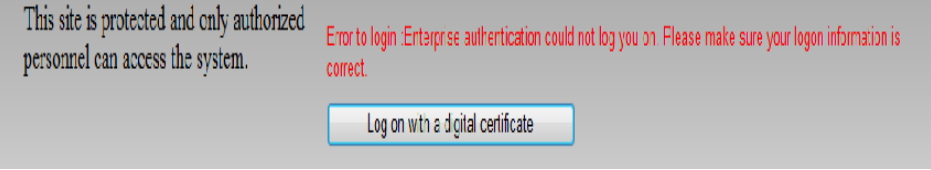
	<pre>email.port=25 email.auth=false</pre>
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Chapter 7: Troubleshooting Client Authentication Certificate Problems

Client Authentication Certificate Issues

Symptom	Unable to Logon to HPE OBR after Enabling Client Authentication Certificate
Description	<p>Administration Console:</p> <p>Log file location: Check the log file located at the following location:</p> <ul style="list-style-type: none">• Windows: <p>Check the logs located at %PMDB_HOME%/adminServer/logs</p> <p>catalina.<YYYY-MM-DD>.log</p> <p>hpshreporter-stderr.<YYYY-MM-DD>.log</p> <p>hpshreporter-stdout.<YYYY-MM-DD>.log</p> <ul style="list-style-type: none">• Linux: <p>Check the Catalina.out log file located at \$PMDB_HOME/adminServer/logs.</p> <p>Launch pad Console:</p> <ul style="list-style-type: none">• Windows: <p>Check the logs located at %PMDB_HOME%/BOWebServer/logs</p> <p>catalina.<YYYY-MM-DD>.log</p> <p>boe120tomcat-stderr.<YYYY-MM-DD>.log</p> <p>boe120tomcat-stdout.<YYYY-MM-DD>.log</p> <ul style="list-style-type: none">• Linux: <p>Check the Catalina.out log file located at \$PMDB_HOME/BOWebServer/logs</p> <p>You will see the following error message in the log file:</p> <p>PKIX path validation failed .Could not determines revocation status.</p> <p>This occurs when the CRL URL configured for certificate revocation is not reachable through the configured HTTP proxy host/port or HTTPS proxy host/port. To identify this issue, enable Certificate Path Tracing as follows.</p>

Resolution	<ol style="list-style-type: none"> 1. Change the HTTP proxy host or HTTPS proxy host so that CRL URL is reachable. Make changes in the respective configuration files as specified in the <i>Client Authentication Certificate for HPE OBR</i> section of the <i>HPE Operations Bridge Reporter Configuration Guide</i>. 2. Stop the service. 3. Execute the PERL command as mentioned in the <i>Client Authentication Certificate for HPE OBR</i> section of the <i>HPE Operations Bridge Reporter Configuration Guide</i>. 4. Start the service.
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Symptom	Login to Administration Console Fails after Enabling Client Authentication Certificate
Description	<p>After selecting the certificate, Administration Console checks for the username extracted from the certificate in SAP BusinessObjects Central Management Console under Administrator group. If the user does not exist, the following message is displayed.</p> 
Resolution	<p>Perform these steps:</p> <ol style="list-style-type: none"> 1. Log on to SAP BusinessObjects Central Management Console. 2. Create the User as per the Username Extraction configured in the server.xml file. 3. Assign it to the Administrators group.

Symptom	Administration Console Prompts for Username/ password after Configuring Client Authentication Certificate
Description	<p>It happens when the properties of config.prp are not set properly as mentioned in the <i>Client Authentication Certificate for HPE OBR</i> section of the <i>HPE Operations Bridge Reporter Configuration Guide</i>.</p>
Resolution 1	<p>Check the following properties from the config.prp file located at %PMDB_HOME%/data (Windows), \$PMDB_HOME/data (Linux)</p> <ol style="list-style-type: none"> 1. shr.loginMethod is set to certbased 2. shr.auth.classes is set to com.hp.bto.bsmr.security.auth.BOTrustedAuthenticator
Resolution	<ol style="list-style-type: none"> 1. Check the date of the logon.jsp file located at %PMDB_

2	<p>HOME%/BOWebServer/webapps/InfoViewApp/logon.jsp</p> <p>2. If the current system date does not reflect, change to it.</p>
----------	---

Symptom	Administration Console Log on Failure
Description	<p>After enabling Client Authentication Certificate, log on to Administration Console fails. The log file displays the following message:</p> <p>SEVERE: Exception invoking periodic operation:</p> <p>java.lang.OutOfMemoryError: GC overhead limit exceeded</p> <ul style="list-style-type: none"> • Windows: <p>hpshreporter-stderr.<YYYY-MM-DD>.log and catalina.<YYYY-MM-DD>.log located at %PMDB_HOME%/adminServer/logs.</p> • Linux: <p>Catalina.out located at \$PMDB_HOME/adminServer/logs</p> <p>This issue occurs when the list of the certificates to be downloaded from the CRL distribution point for the verification of certificate revocation is too large.</p>
Resolution	<p>To overcome this issue, Java heap space needs to be included.</p> <p>Perform the following steps to increase the heap space:</p> <p>Windows:</p> <ol style="list-style-type: none"> 1. Go to Start > Run, type <code>services.msc</code>. Right-click HPE_PMDB_Platform_Administrator service and click Stop. 2. Edit <code>service.bat</code> located at <code>%PMDB_HOME%/adminServer/bin</code> <p>Edit <code>-XX:MaxPermSize=256m, --Jvmmx 256</code>: Increase the value as per the size of the CRL URL.</p> 3. Increase <code>MaxpermSize</code> as per the requirement. 4. Recreate the service. <p>Go to <code>%PMDB_HOME%/adminServer/bin</code>,</p> <pre>service .bat remove C:/HP-SHR/ service.bat install C:/HP-SHR/</pre> <p>Linux:</p> <ol style="list-style-type: none"> 1. Run the command <code>service HPE_PMDB_Platform_Administrator stop</code>. 2. Edit the <code>catalina.sh</code> located at <code>\$PMDB_HOME/adminServer/bin</code> folder. 3. Edit the <code>MaxPermSize</code> argument <code>-XX:MaxPermSize=256m</code> of <code>JAVA_OPTS</code> 4. Run the command <code>service HPE_PMDB_Platform_Administrator start</code>.

Enabling Certificate Processing Trace

Solution	The system property <code>-Djava.security.debug=certpath</code> of the Java Runtime Environment (JRE) can be set to enable the tracing of certificate processing. The output is very useful for developers and support validation of the user certificate, including the processing of the certificate revocation.
Steps	<p>Perform the following steps to enable certificate path tracing:</p> <p>Windows:</p> <ol style="list-style-type: none">1. Go to Start > Run, type <code>services.msc</code>.2. Right-click HPE_PMDB_Platform_Administrator service and click Stop.3. Edit <code>service.bat</code> located at <code>%PMDB_HOME%/adminServer/bin</code> Include <code>-Djava.security.debug=certpath</code> as part of JVM Arguments.4. Recreate the service. Go to <code>%PMDB_HOME%/adminServer/bin</code>, <code>service .bat remove C:/HP-SHR/</code> <code>service.bat install C:/HP-SHR/</code> <p>Linux:</p> <ol style="list-style-type: none">1. Run the command <code>service HPE_PMDB_Platform_Administrator stop</code>.2. Edit the <code>catalina.sh</code> located at <code>\$PMDB_HOME/adminServer/bin</code> Include <code>-Djava.security.debug=certpath</code> as part of JVM Arguments.3. Run the command <code>service HPE_PMDB_Platform_Administrator start</code>.

Chapter 8: Troubleshooting Disaster Recovery Issues

Symptom	Deleting Server Intelligence Agent failed
Description	While restoring the SAP BusinessObjects Database and File Store in Windows, deleting Server Intelligence Agent using the command <code>sc delete boe120sia<name></code> there may be several causes which lead to the service being stuck in “marked for deletion” and you may get the following message: <i>[SC] DeleteService FAILED 1072: The specified service has been marked for deletion.</i>
Resolution	To resolve this problem, perform the following : To ensure all instances are closed, run <code>taskkill /F /IM mmc.exe</code> .

Symptom	Reports not accessible after restoring the SAP BusinessObjects Database and File Store
Description	After restoring the SAP BusinessObjects Database and File Store in Windows, the user is not able to access the reports the following message is displayed: <i>The document can't be retrieved from repository server WIS 30951.</i>
Resolution	To resolve this problem, perform the following : <ol style="list-style-type: none"> 1. From the Start menu, type Central Management Console in Search. The Central Management Console page appears. OR Log on to CMC from the following url: <code>https://<HPE_OBR_System_FQDN>:8443/CMC</code> 2. Log in to CMC with Administrator account. 3. Click Servers. 4. Right-click on InputFileRepository server. 5. Click on Properties. 6. Set the Temporary Directory path. (For Example: <i><installation directory of BOE>:\Program Files\Business Objects\BusinessObjects Enterprise12.0\FileStore\Input\Temp</i>) 7. Set the File Store Directory path. (For Example: <i><installation directory of BOE>:\Program Files\Business Objects\BusinessObjects Enterprise12.0\FileStore\Input</i>).

8. Click **Save & Close**.
9. Restart the **InputFileRepository** server.
10. Perform the steps from 4 to 9 for **OutputFileRepository** server.

Reference

The Capture Tool

The Capture tool helps you capture useful configuration and run-time information from HPE OBR systems that can be used for advanced troubleshooting. The Capture tool is not installed on the HPE OBR system by default. You can install it on the HPE OBR system, as well as on the system where the Vertica database for HPE OBR is installed.

To install the Capture tool:

Prerequisites

- All necessary Content Packs should be installed.
- The HPE_PMDB_Platform_Administrator process must be running.

1. Log on as root/administrator and run the following command:

On Windows

```
%PMDB_HOME%\contrib\Supportability\capture_tool\capture_toolInstall.bat
```

On Linux

```
$PMDB_HOME/contrib/Supportability/capture_tool/capture_toolInstall.sh
```

2. Using the command prompt, change to the following directory:

On Windows

```
%PMDB_HOME%\adminServer\webapps\birt
```

On Linux

```
$PMDB_HOME/adminServer/webapps/birt
```

3. Run the following command:

On Windows

```
updatePasswd.bat <management database password for user pmdb_admin>
```

On Linux

```
updatePasswd.sh <management database password for user pmdb_admin>
```

Executing the Capture Tool

The capture tool ships with an out of the box default configuration XML to captures the required information. This XML contains the targets that have set of commands to run.

The capture configuration file `shr_capture_tool_options.xml` is located at `{pmdb_home}\contrib\Supportability\capture_tool\perl\`.

Run the following command to execute the capture tool:

For Windows:

```
%pmdb_home%\contrib\Supportability\capture_tool\perl\capturetool.bat
```

For Linux:

```
$PMDB_HOME/contrib/Supportability/capture_tool/perl/capturetool.sh
```

The data gets collected is in the location `{pmdb_home}/capture_output`

Note: If the folder `{pmdb_home}/capture_output` already has some data, then post execution the Capture Tool will overwrite the data in that folder.

Interpreting Results

The out-of-the-box configuration file captures the following information:

- System configuration
- Product configuration
- PostgreSQL database
- Log File
- Installed Content packs
- Data source
- HPE OBR service status
- Data flow
- Orchestration stream status

These reports can be accessed from the link: <http://<hostname>:21411/birt/report.jsp>

Note: By default all the information captured will be in any one of the following

format:

- CSV
- Text
- HTML

Disable HTTPS Configuration

HPE OBR has two console interfaces, the Administration console and the SAP BusinessObjects BI launch pad. It is possible to run both the consoles in a secured environment with HTTPS network protocol or in a non-secured environment with HTTP network protocol. The default protocol for both the consoles is HTTPS. However, you can disable HTTPS default configuration for Administration Console and SAP BusinessObjects BI launch pad console.

HP Operations Bridge Reporter recommends to use HTTPS as the default network protocol.

For the Administration Console of HPE OBR

To disable a secure connection for the Administrations Console of HPE OBR:

Task 1: Stop the HPE_PMDB_Platform_Administrator service

To stop HPE_PMDB_Platform_Administrator service, follow these steps:

- **On Windows**
 - a. Go to **Start > Run**, type `services.msc`.
 - b. Right-click **HPE_PMDB_Platform_Administrator**, and then click **Stop**.
- **On Linux**

Run the following command:

```
service HPE_PMDB_Platform_Administrator stop
```

Task 2: Edit the server.xml file

Tip: Take a backup of the `server.xml` file before editing.

Comment the SSL Connector tag that has the port value set to 21412.

Task 3: Comment the security constraint in web.xml

1. Browse to the following folder:
 - **On Windows**
`%PMDB_HOME%\adminServer\webapps\BSMRApp\WEB-INF`

- o **On Linux**

```
$PMDB_HOME/adminServer/webapps/BSMRApp/WEB-INF
```

2. Open `web.xml` with a text editor.
3. Comment the following lines:

```
<Connector port="21412" protocol="org.apache.coyote.http11.Http11Protocol"
maxHttpHeaderSize="8192" connectionTimeout="20000"

maxThreads="150" minSpareThreads="25" maxSpareThreads="75"

enableLookups="false" disableUploadTimeout="true"

acceptCount="100" scheme="https" secure="true"

clientAuth="false" sslProtocol="TLS" SSLEnabled="true" keyAlias="HPE OBR"

keystoreFile="../../keystore/HPE_OBR_CERT_HTTPS.jks" keystorePass="shradmin"
keystoreType="JKS" xpoweredBy="false" server="HPE OBR"/>
```

Task 4: Start the HPE_PMDB_Platform_Administrator service

- **On Windows**

To start HPE_PMDB_Platform_Administrator service:

- a. Go to **Start > Run**, type `services.msc`.
- b. Right-click **HPE_PMDB_Platform_Administrator**, and then click **Start**.

- **On Linux**

Run the command

```
service HPE_PMDB_Platform_Administrator start
```

Task 5: Verify the configuration.

To verify the configuration, log on to the Administration Console using the following URL:

```
http://<hostname>: 21411
```

where, *<hostname>* is the name of the HPE OBR system.

For the SAP BusinessObjects BI launch pad Console of HPE OBR

To disable HTTPS communication for SAP BusinessObjects BI launch pad Console of HPE OBR:

Note: In a custom installation of HPE OBR, perform the following tasks on the system where SAP BusinessObjects is installed.

Task 1: Stop the SAP BusinessObjects Webserver service

To stop the SAP BusinessObjects WebServer service:

- **On Windows**
 - a. Go to **Start > Run**, type `services.msc`.
 - b. Right-click **BusinessObject WebServer**, and then click **Stop**.
- **On Linux**
 - a. Go to `/opt/HP/BSM/PMDB/BOWebServer/bin`
 - b. Run the following command:

```
./shutdown.sh
```

Task 2: Edit the server.xml file

Tip: Take a backup of the `server.xml` file before editing.

To edit the file, follow these steps:

1. Open the `server.xml` file located at `{PMDB_HOME}/BOWebServer/conf`.
2. Edit the connector ports value from 8443 to 8080 and remove the `redirectPort="8443"` tags from the `<Connector port` lines.

Following is an example of edited `server.xml` file `<Connector port` lines:

```
<Connector port="8080" protocol="org.coyote.http11.Http11Protocol"
<Connector port="8080" protocol="org.coyote.http11.Http11Protocol"
maxHttpHeaderSize="8192" connectionTimeout="1000000"
<Connector port="8009" protocol="AJP/1.3" />
```

Task 3: Start the SAP BusinessObjects WebServer

To stop SAP BusinessObjects WebServer service:

- **On Windows**
 - a. Go to **Start > Run**, type `services.msc`.
 - b. Right-click **BusinessObject WebServer**, and then click **Start**.
- **On Linux**

- a. Go to `/opt/HP/BSM/PMDB/BOWebServer/bin`
- b. Run the following command:

```
./startup.sh
```

Task 4: Verify configuration

To verify whether the configuration is successful, follow these steps:

1. Log on to `http://<hostname>:8080/BI`
where, *<hostname>* is the name of the HPE OBR system.
2. Log on to `http://<hostname>:8080/CMC`
or
`https://<hostname>:8443/CMC`
where, *<hostname>* is the name of the HPE OBR system.

Generating Reports to Stream Mapping Information

Follow the commands described in the `readme.txt` packaged along with it to install the utility. Run the following command to get the streams associated with a report:

```
shr_utility - rept -name <name of the report> -l <output location>
```

This command generates a `ReportToStreamMapping.html` file.

Exporting Web Intelligence documents in different formats and purpose

SAP BusinessObjects Web Intelligence provides the functionality to export data to PDF, Excel, Text, or CSV (comma separated values).

Users can save these Web Intelligence documents as three different file formats, and the purpose these formats are different from one another.

The different Web Intelligence documents formats and their purpose are as follows:

1. PDF

- This format is useful to provide other users with the document information in a printable format.
- The page layout and formatting of the Web Intelligence report is retained in the PDF file.
- The PDF file is the exact copy of the document/report and can be shared to other users (non-BO users) via email, shared location
- The data in the PDF cannot be modified by anyone.

2. Excel

- This format is useful if you want to combine the information in Web Intelligence document with other data in an Excel spreadsheet.
- Unlike Web Intelligence documents, the Excel files are not connected to the database. You cannot refresh the data in the Excel file. To display up-to-date data in Excel format, refresh the Web Intelligence document and then save it as a new Excel file.
- Each report within the Web Intelligence document converts to a separate Excel worksheet within the Excel file.
- The formatting and grouping of the Web Intelligence report is retained in the Excel worksheet.
- This format does not include the header and footer displayed in the Web Intelligence report.
- This format allows to use the functions in Excel.
- The charts are converted to images not actual charts.

3. Text file

- The groupings and columns of the Web Intelligence report is retained in the Text file. But the formatting (for example: Header row color) is not retained.

- In page mode, the report elements are exported page by page.
- The separator used is a tab space.
- The charts and images do not get exported.
- Export size limit for text file is defined in the CMC. The default value is 5 MB. An error message appears if the size limit is exceeded.
- If several reports are selected, they are appended one after another in the same text file.

4. CSV file

- The formatting and grouping of the Web Intelligence report is not retained in the CSV file.
- Best choice for 'raw data' as its export data from microcube/data provider.
- This format dumps the full content of all columns were retrieved from the database into the CSV file.
- The computations and filters applied in WebI report are not applied in the CSV file.
- Data providers doesn't result any output, users may see special chars due to object names used in the data providers.
- The following properties can be configured:
 - Text qualifier
 - Column Delimiter
 - Charset

5. CSV Archive

- This format generates an archive file (.zip) that contains data from the document.
- This format contains one CSV file per report from the document. Each CSV file contains the report data without any headers, footers or charts.
- This format supports all or only some of the reports to export in the CSV archive file.
- This format is supported only from Rich Client and the SAP BusinessObjects Web Intelligence Launch pad. This format does not support Scheduling.
- The exported data will be separated using comma, and text qualifier
- The following properties can be configured:
 - Text qualifier
 - Column Delimiter
 - Charset

Checking if Data is stuck in Source Table

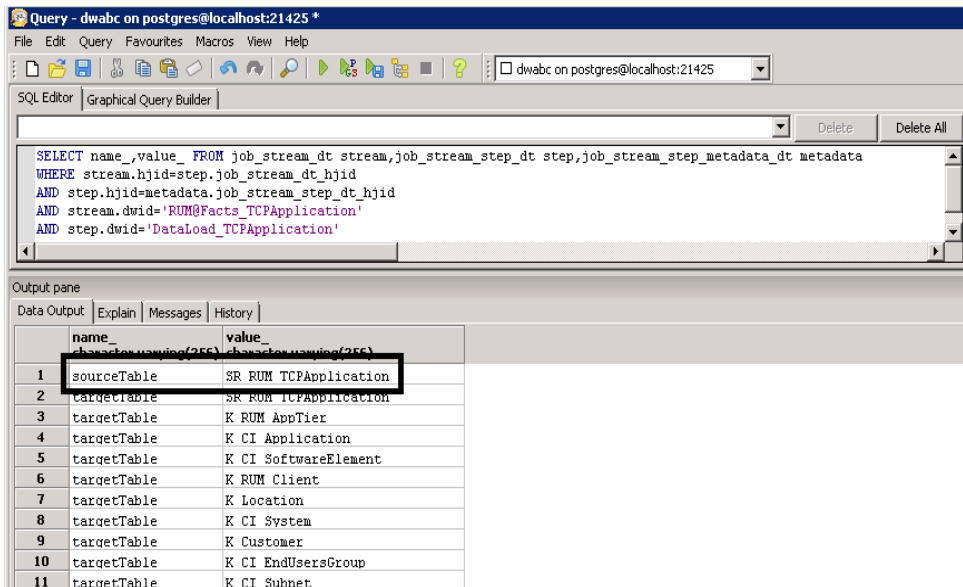
Launch PostgreSQL interface (**Start > Program Files > PostgreSQL 9.3 > pgAdmin III**)

Run the following SQL:

```
SELECT name_,value_ FROM job_stream_dt stream,job_stream_step_dt step,job_stream_
step_metadata_dt metadata
WHERE stream.hjid=step.job_stream_dt_hjid
AND step.hjid=metadata.job_stream_step_dt_hjid
AND stream.dwid='<stream name>'
AND step.dwid='<step name>'
AND name_='targetTable'
```

In the generated output, there is a key value pair. It represents metadata associated with the step. Look up the generated output for a key called *sourceTable* and *targetTable* (Value_ preceding with SR_) as show in the following figure.

Query max (ta_period) from source and target tables and check that the difference does not exceed six hours.



CLI Reference Information

This section provides reference information of key command line utilities provided by HPE OBR.

Orchestration Module (ABC)

The Orchestration Module (ABC) - Audit, Balance and Control utility is used to control data flow of the following streams to respective data warehouse tables:

- ETL stream to the stage tables
- DWH stream from stage tables

The streams that load data into data warehouse cubes are called as DWH stream. DWH stream are responsible for moving data from stage table to DWH tables and aggregations. DWH stream has steps like LOAD, HOURLY_AGGREGATE, DAILY_AGGREGATE and EXEC_PERL.

ETL stream transforms the collected data from the data sources to stage tables. ETL stream contains steps like COLLECT, TRANSFORM, RECONCILE and STAGE.

For information, see *Architecture* chapter in *HPE Operations Bridge Reporter Concepts Guide*.

abcImportDef

This command is responsible for importing/updating/deleting the stream definition in the platform. Importing of stream definitions takes place during the Content Pack installation.

Usage	<pre>abcimportdef [-help] [-verbose] [-xmlfile <xmlfile>] [-xmlfile <xmlfile> -delete]</pre> <ul style="list-style-type: none"> • To import the definition files: <pre>abcimportdef -xmlfile <xmlfile></pre> where, <xmlfile> is the name of the stream definition file. • To delete the stream: <pre>abcImportDef -delete -xmlfile <xmlfile></pre> where, <xmlfile> is the same stream definition file that is imported.
Options	<ul style="list-style-type: none"> • delete - delete stream

	<ul style="list-style-type: none"> • help - print this help message • verbose - verbose output • xmlfile - load the XML file into the metadata repository • returns - 0 for success 1 for success with warning(s) >1 for error(s)
Example	<ul style="list-style-type: none"> • To import the definition files: <code>abcimportdef -xmlfile ..\sampledata\sample.xml</code> • To delete the stream: <code>abcimportdef -delete -xmlfile..\sampledata\sample.xml</code>
Log File	{PMDb_HOME}/log/dw_abclauncher.log

abcAdminUtil

This command can be used to perform the following tasks:

- Set the maximum number of retries per job step.
- Set the maximum execution time per job step.
- Set the pool count for a resource type.
- To abort all or a particular stream that is running.

Usage	<pre>abcAdminUtil -setMaxRetries [-streamId <stream name> -stepId <step name> -value <number>] -setMaxExecTime [-streamId <stream name> -stepId <step name> -value <number>] -setResourceCount [-resourceType <resource type> -value <pool count>] -pause -resume -abort [-streamId <stream name> -all]</pre> <ul style="list-style-type: none"> • To set maximum retries: <code>abcAdminUtil -setMaxRetries -streamId <stream name> -stepId <step name> -value <number></code> • To set maximum execution time: <code>abcAdminUtil -setMaxExecTime -streamId <stream name> -stepId <step name> -value <number></code> • To set resource count: <code>abcAdminUtil -setResourceCount -resourceType <resource type> -value <pool count></code>
-------	--

	<ul style="list-style-type: none"> • To pause the Orchestration operation: <code>abcAdminUtil -pause</code> This command can be used to pause a running stream temporarily. • To resume the Orchestration operation: <code>abcAdminUtil -resume</code> This command can be used to resume a paused stream. • To abort the specified stream: <code>abcAdminUtil -abort [-streamId <stream name>]</code> This command can be used to abort a specific running stream. • To kill all currently running streams: <code>abcAdminUtil -abort [-all]</code> This command can be used to abort all running streams. • Reset all the steps with Running and Starting state to waiting state: <code>abcAdminUtil -resetSteps</code> This command can be used to reset streams to waiting state.
Options	<ul style="list-style-type: none"> • <code>help</code> - print usage • <code>pause</code> - to pause the Stream operations • <code>resetSteps</code> - to reset all the steps with Running and Starting state to Waiting State. • <code>resume</code> - to resume the stream operations • <code>setMaxExecTime</code> - to set maximum execution time for specified step <ul style="list-style-type: none"> ◦ <code>stepId <stepId></code> - step ID of the stream for which a value need to be set ◦ <code>streamId <streamId></code> - stream ID of the stream for which a value need to be set ◦ <code>value <value></code> - value that need to be set • <code>setMaxRetries</code> - to set maximum retries for specified step <ul style="list-style-type: none"> ◦ <code>stepId <stepId></code> - step ID of the stream for which a value need to be set ◦ <code>streamId <streamId></code> - stream ID of the stream for which a value need to be set ◦ <code>value <value></code> - value that need to be set • <code>setResourceCount</code> - to set resource count for specified resource type <ul style="list-style-type: none"> ◦ <code>resourceType <resourceType></code> - resource type for which a value need to be set ◦ <code>value <value></code> - value that need to be set • <code>abort</code> - Admin Operation to ABORT <ul style="list-style-type: none"> ◦ <code>streamId <streamId></code> - stream ID of the stream for which a value need to be set ◦ <code>all</code> - Admin Operation to ABORT ALL STREAMS

abcMonitor

You can use this command to analyze the state of the data processes. This command is responsible for monitoring and displaying the stream details along with the stream steps, current and historical status of the streams and steps in its database schema.

<p>Usage</p>	<pre>abcMonitor -streamdef -stream <streamFilter> [-step <stepFilter> - export <csv_file_location>] -log <logFilter> help - runtimeRefresh</pre> <ul style="list-style-type: none"> • To display all the Imported stream: <pre>abcMonitor -streamdef</pre> • To display details of all stream: <pre>abcMonitor -stream ID=ALL</pre> • To generate a .csv file that has details of all stream including all steps: <pre>abcMonitor -stream ID=ALL -step ID=ALL -export <location of csv></pre> • To display all the step of a stream that completes with warning: <pre>abcMonitor -stream ID=<streamID> -step ID=ALL,status=warning</pre> • To display all execution log of step that completes with error: <pre>abcMonitor -log stepID=<stepID>,Severity=error,Detail=true</pre>
<p>Options</p>	<ul style="list-style-type: none"> • streamdef - print imported streams • help - print usage • log <logFilter> - Display log detail based on following log filter seperated by comma. <pre><stepID processID=<stepid/processid>,Severity=WARN ERROR,Detail=true></pre> • runtimeRefresh - Refresh run-time table • step <stepFilter> - Display step detail based on following step filter seperated by comma: <pre><ID=stepID All, state=WAITING RUNNING FINISHED,status=ERROR MAX_ EXECUTION_TIMEEXCEEDED WARNING NA SUCCESS ></pre> • stream <streamFilter>- Display stream detail based on following stream filter seperated by comma. <pre><ID=streamID All, state=ACTIVE ABORTED FINISHED,status=ERROR WARNING NA OK ></pre> <ul style="list-style-type: none"> ◦ export <csv_file_location> - write output to given .csv file ◦ step <stepFilter> - Display step detail based on following step filter seperated by comma:

	<ID=stepID All, state=WAITING RUNNING FINISHED,status=ERROR MAX_EXECUTION_TIMEEXCEEDED WARNING NA SUCCESS >
Example	<ul style="list-style-type: none"> To generate a .csv file (C:/pmdbStreamSteps.csv) that has details of all stream including all steps: <pre>abcMonitor -stream ID=ALL -step ID=ALL -export C:/pmdbStreamSteps.csv</pre> To display all the step of stream <i>Test@3</i> that completes with warning: <pre>abcMonitor -stream ID=Test@3 -step ID=ALL,status=warning</pre> To display all execution log of step <i>Test3_C</i> that completes with error: <pre>abcMonitor -log stepID=Test3_C,Severity=error,Detail=true</pre>

abcStreamRunner

This command can be used to reload the stream and run it.

Usage	abcStreamRunner [-streamId <stream name>] [-forceLoad] [-skipPrecheck] [-varArgs <var Args file name>]
Options	<ul style="list-style-type: none"> forceLoad - Force loads a stream. help- print usage skipPrecheck - Skips the precheck for the stream. streamId <streamId> - The stream ID of the stream for which a value need to be set. varArgs <varArgs> - The variable arguments file to be used for sending arguments to the steps.
Example	To run the stream with dwid Core@Dim_K_Person: <pre>abcStreamRunner -streamId Core@Dim_K_Person</pre>

DWH

Aggregation

This module is responsible for carrying out hourly and daily aggregation of performance metrics collected from different sources. The aggregation is governed by aggregation definitions, which are designed by the Content Pack developer and the initialization of these definitions takes place at the

time of installing the Content Pack. The initialization process involves creation of the temp table used by the aggregate definition file.

Aggregate looks up *aggregate_control* table in PostgreSQL and determines the time beyond which data has to be processed in the current invocation. This *aggregate_control* table has two fields, **last execution time** and **last process time**. Last execution time is used by daily aggregation to control the frequency of execution (By default daily aggregates run once every 12 hours). Last process time is used by both the hourly and daily aggregation procedures to perform incremental aggregation.

Source Table	Rate/Hourly Table
Destination Table	Hourly/Daily Table
Failure Directory	Rate/Hourly Tables (Data is retained in the source table on failures)
Log File	{PMDB_HOME}/log/aggregate.log
Usage	<ul style="list-style-type: none"> • config=<Aggregate Definition File> [The aggregate definition file name is <source_table>_<target_table>_<cubeName>.xml in {PMDB_HOME}/scripts] • init=true/false [Invoking the loader definitions initialization]

Loader

This module is responsible for moving data from stage table to DWH table. Loader does the processing that involves resolving surrogate key and loading. The loader is governed by loading definitions, that the content pack developer designs. The loader definitions are initialized as part of content pack installation. Initialization process involves creation of temp table used by loader.

All the *Rate* and *dimension* in HPE OBR has corresponding stage table. Stage table name will generally be rate/dimension table name followed by an *_*. If the DWH table name is *SR_SM_NODE_RES* than the stage table name for this DWH table will be *SR_SM_NODE_RES_*.

Loader looks up *stage_control* table in PostgreSQL and determines the time beyond which data has to be processed in the current invocation. This module also purges data older than time mentioned in this *stage_control* table.

Source Table	Stage Table
Destination Table	DWH Rate/Dimension table
Failure Directory	{PMDB_HOME}/failed_to_load

Log File	{PMDB_HOME}/log/reconcileStep.log
Usage	<ul style="list-style-type: none"> • config=<Loader Definition File> [The name of the definition File will generally be <DWH_Table_Name>.xml and will be under {PMDB_HOME}/lib directory • init=true/false [Invoking the loader definitions initialization] • perfLog=true/false [Creates a performance log file containing performance statistics of the current loader execution]

ETL Modules

These modules are responsible for extracting data from the data sources, transforming, reconciling and staging them into stage tables. ETL content pack consume these modules to carry out data movement to staging area.

Collect

This module is responsible for moving data from {PMDB_HOME}/collect directory to {PMDB_HOME}/stage directory. This does merging of files with same type and category into a single file of configurable size (Default 25MB), unless there are left over files from the previous cycle. This identifies the batch of data, which the streams picks up for processing.

Source Directory	{PMDB_HOME}/collect
Destination Directory	{PMDB_HOME}/stage
Failure Directory	None, files are left in the {PMDB_HOME}/collect folder
Log File	{PMDB_HOME}/log/collectStep.log
Usage	<p>collect [-category <category>] [-type <type>]</p> <ul style="list-style-type: none"> • category - Specify the category of the collected data • type -Specify the type of the collected data • help - Provides Help message

Collection_Config

This module is responsible for importing/updating/deleting the ETL artifacts. ETL artifacts that are imported by collection_config are:

- Collection policies [PA, CMDB, SN, DB]
- Transformation Rules
- Reconciliation Rules

The imported rules are stored in the PostGreSQL management database. A cached copy of these policies is stored in the {PMDB_HOME}/etl_rules folder. All HPE OBR ETL modules use rules from this cached folder instead of connecting to PostGreSQL.

Every time the collection_config module is executed, the cached copy is refreshed.

Usage
<ul style="list-style-type: none"> • collection_config -collect <Full path to collection policy xml file name> -cp <contentpack name> • collection_config -transform <Full path to transformation policy xml file name> -cp <contentpack name> • collection_config -reconcile <Full path to reconciliation policy xml file name> -cp <contentpack name> • collection_config -delete -cp <contentpackName> • collection_config -refreshCache -transformRules • collection_config -refreshCache -reconcileRules

Mapper

This module is responsible for transforming the data and preparing it for loading to staging area. This module supports different types of transformation functions like, string functions, arithmetic functions, duplicate removal functions, pivot transfer functions and so on. These transformation function on the input data is defined by the content pack developer and imported during content pack installation.

Source Directory	{PMDB_HOME}/stage
Destination Directory	{PMDB_HOME}/stage
Failure Directory	{PMDB_HOME}/failed_to_transform
Log File	{PMDB_HOME}/log/mapperStep.log
Usage	mapper [-category <category>] [-type <type>] [stepid

	<p><id>]</p> <ul style="list-style-type: none"> • category - Specify the category of the collected data • type -Specify the type of the collected data • stepId <step ID> - Specify the step id. Uses this argument to build the output file name • help - Provides Help message
--	--

Reconcile

Reconciliation is a two-step process for checking the performance metrics and their dimensions discovered from topology sources. This involves:

1. Building Registry

This process involves building a registry for reconciliation. This registry has a key and a value for each dimension discovered from a topology source. The key is the concatenated business key and value is the global unique identifier. The rule specifies the column to be used for building the keys from the dimension CSVs.

2. Reconciliation of the performance metrics

This process is responsible for associating the global unique identifier with a dimension. This is governed by the reconciliation rules, which define the reconciliation registry to be used for the type and category of data. This also defines the CSV columns from the collected data that can be used to build a key, to look into the reconciliation registry of the identified type, and get its matching global unique identifier.

Source Directory	{PMDB_HOME}/stage
Destination Directory	{PMDB_HOME}/stage
Failure Directory	{PMDB_HOME}/failed_to_reconcile
Log File	{PMDB_HOME}/log/reconcileStep.log
Usage	<pre>reconcile buildRegistry [-category <category>] [-type <type>] [-stepid <step ID>]</pre> <ul style="list-style-type: none"> • buildRegistry - Build the registry • category -Specify the category of the collected data • type - Specify the type of the collected data • stepId <step ID> - Specify the step id. Uses this

	<p>argument to build the output file name</p> <ul style="list-style-type: none"> • help - Provides Help message
--	--

Stage

This module is responsible for loading the collected, transformed and reconciled data to staging tables. The stage module is driven by stage rules that specifies how to move data from source CSV to stage tables. All the *Rate* and *dimension* in HPE OBR has corresponding stage table. No summarization tables will have an associated stage table. Stage table name will generally be rate/dimension table name followed by an `_`. If the DWH table name is `SR_SM_NODE_RES`, then the stage table name for this DWH table will be `SR_SM_NODE_RES_`.

Staging involves following two modes of execution,

1. Compiling the stage rules

In this mode, Stage module compiles and generates the compiled stage based on input stage rules designed by the content pack developer. The stage rule compilation occurs as part of content pack installation.

Compiled stage rules are stored in `{PMDB_HOME}/stagerules` folder and the XML equivalent to this compiled stage rules is stored in `{PMDB_HOME}/stagerules_source` folder.

2. Executing the data load from CSV to stage table.

In this mode, Stage modules takes the input as compiled stage rule and moves the data from the CSV file to stage table. The information on the CSV file patterns to be picked and the stage table to load the data, is mentioned in the compiled stage rule.

There is some amount of processing that happens in the staging area. Important one is to perform column merge across different fact CSV's and move the resultant data to stage table.

Source Directory	<code>{PMDB_HOME}/stage</code>
Destination Directory	<code>{PMDB_HOME}/stage/archive</code>
Failure Directory	<code>{PMDB_HOME}/failed_to_stage</code>
Log File	<code>{PMDB_HOME}/log/stage.log</code>
Usage	
To Compile Stage Rule	<ul style="list-style-type: none"> • <code>compile=true</code> [To invoke compilation mode. Default is false.] • <code>stagerule=<Stage Rule></code> [Full path to the file that

	<ul style="list-style-type: none"> has stage definitions] interface=<Interface XML> [Full path to the stage interface XML] outputLocation=<Output Directory> [Directory where the compiled stage rule is stored]
To Execute Stage table loading	<ul style="list-style-type: none"> config=<Compiled Stage Rule> [Path to the compiled stage rule] printSourceFile=true [Generated XML version of compiled stage rule. Provides mapping between CSV columns and stage table columns. Default value is false] debugOutputLoc= <Folderpath> [Location where the XML equivalent of compiled stage rule is placed]

Platform_modules

datapipe_manager

This module is responsible for creating/dropping the data warehouse tables in Vertica. Along with creating or dropping table, the utility registers or deregisters the tables in the metadata maintained by HPE OBR.

This module will be generally invoked for creating/dropping tables for Content Pack installation and uninstallation activities.

Note: Stage tables are not part of data warehouse tables, and therefore, are not created or dropped by the Content Pack installation/uninstallation process.

Log File	<ul style="list-style-type: none"> {PMDB_HOME}/log/trend.log
Usage1: To Create a table	<ul style="list-style-type: none"> datapipe_manager -p create -a <path_to_schema_definition_file> -d <debug_level>
Usage2: To Drop a table	<ul style="list-style-type: none"> datapipe_manager -p delete -t <table> -d <debug_level>
p [create delete]	<i>create</i> for creating table and <i>delete</i> for deleting a table
a	Full path to schema definition file. This file has a

	property format called as TEEL and is created by CDE by reading the model XML,
d	Level of debugging information to be generated. The data is logged to trend.log. Supported debug logging levels are 1, 2, 3.
t	The name of the table to be dropped.

extract

HPE OBR Collectors are launched from the windows service *HPE PMDB Collection Service*. This module is responsible for launching standalone collector outside the windows service.

This module reads information about what to collect from the policy file and run the collection for the data source type specified as input. This module also takes the list of data source, for which you want to run the data collection as input .

This can be used as a good data source troubleshooting module to isolate whether a problem is due to data source or some thing else.

Log File	<ul style="list-style-type: none"> • {PMDB_HOME}/log/collection.log • {PMDB_HOME}/log/hpaCollector.log • {PMDB_HOME}/log/topologyCollector.log • {PMDB_HOME}/log/dbCollector.log
Usage	<ul style="list-style-type: none"> • config - Specify the full path to the configuration file • help - Provides Help message • policy - Full path to collection policy file(s) (multiple files to be separated by comma(.)) • type - Specify the collector type that needs to be run PA CMDB DB SN
Content of config.properties file for individual stand-alone collectors	
PA	hostname=<hostname> init.history=<collection interval in minutes – default to 60>
CMDB	hostname=<hostname> username=<rtsm username> password=<rtsm password>

	port=<rtsm port>
DB	hostname=<hostname> username=<DB username> password=<DB password> port=<DB port> instance.name=<DB instance name> db.name=<DB name> use.windows.auth=<true false> db.type=<database type oracle mssql Sybase> datasource.type=<datasource type generic profile_ database OM Omi>
SN	hostname=<hostname> username=<OM username> password=<OM password> port=<OM port> instance.name=<OM instance name> db.name=<OM DB name> use.windows.auth=<true false> protocol=https type=<OM type OMW OMU OML>

packagemgrSilent

This module is responsible for deploying or undeploying a content pack. This module is invoked from the Admin UI deployment manager page. At any given point, only one instance of packagemgrSilent should be running. This is enforced by the deployment manager page. Deployment manager will not let user deploy/undeploy a content pack(s) when already deployment or undeployment is in progress.

Not just only one instance of packagemgrSilent should be running at a given point but also there should not be any HPE OBR processes running at the time of invocation. Even this is taken care by the Deployment Manager page in Admin UI.

This module takes a file containing a list of content packs as input ,to be deployed or to be undeployed. Since there can be dependency between the content packs, the input file is expected to have content

pack names in an order such that the dependency is met. Again, Deployment manager takes care of building the ordered list of content packs based on their dependency and invoke the packagemgrSilent.

Based on type of the content pack, a typical content pack installation involves

1. Placing artifacts in the PMDB directory to be consumed at run time by various HPE OBR processes
2. Creating a schema in the Vertica DWH (Domain CP)
3. Importing the ETL artifacts (ETL CP)
4. Importing the stream definitions (ETL CP)
5. Initializing the loading procedures (Domain CP)
6. Initializing the aggregate procedures (Domain CP)
7. Compiling the staging procedures (ETL CP)
8. BIAR Deployment (Application CP)

Log File	<ul style="list-style-type: none"> • {PMDB_HOME}/log/packagemgr.log • {PMDB_HOME}/log/trend.log • {PMDB_HOME}/log/collections.log • {PMDB_HOME}/log/stage.log • {PMDB_HOME}/log/loader.log • {PMDB_HOME}/log/aggregate.log
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sqlexecutor

HPE OBR content uses stored procedure to carry out few data processing, which are not possible using standard out of the box modules. Or they might have a specific use case for aggregations. This module is also used as part of content pack installation to create stage tables. This module is responsible for executing any stored procedure. There are two modes of operations

1. To execute sql script

In this mode the module takes a file containing SQL commands as input and executes them.

2. Run/Drop for already created procedures

In this mode, the module executes the procedure passing required arguments.

Log File	<ul style="list-style-type: none"> • {PMDB_HOME}/log/backend.log
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Usages 1	<ul style="list-style-type: none"> • <code>sqlexecutor -sqlscript <sqlscript Name></code>
Usages 2	<ul style="list-style-type: none"> • <code>Sqlexecutor -execproc -dropproc <procedure Name> -procArgs</code>
sqlscript	File name that contains SQL commands
dbisql	Additional options that are supplied for script execution
execproc	To execute the procedure specified as value for this option
dropproc	To drop the procedure specified as value for this option
help	Command line help

Known Limitations in HPE OBR Reports

System Management and Virtualization Reports

When data is gathered from HP SiteScope (data collection from RTSM/BSM Profile database), certain known limitations or gaps exist in HPE OBR reports of Systems and Virtualization content packs.

System Management

The following table lists the known gaps in HPE OBR reports when data is sourced from HP SiteScope (BSM Profile database):

Report	Known Limitations
SM Heat Chart	No data available in <i>Physical Disk</i> and <i>Network</i> tabs
SM System Usage Detail	No data available in <i>Physical Disk</i> and <i>Network</i> tabs

For more information about System Management Reports, see *Appendix D* in *HPE Operations Bridge Reporter Configuration Guide*.

Virtualization

The following table lists the known gaps in HPE OBR virtualization reports when data is sourced from HP SiteScope (BSM Profile database):

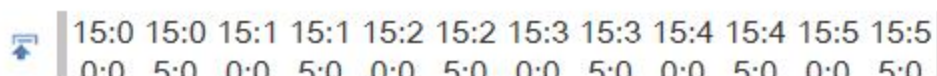
Note: Only VMware virtualization is supported by HP SiteScope integration with HPE OBR. Hence, only this virtualization technology appears across the reports when data is sourced from SiteScope.

Report	Metrics that are unavailable in reports with SiteScope integration
SM Virtualization Host Inventory	Processor Architecture, Disk Count, VM Count
SM Virtualization Logical System Inventory	State, Number of Disk, Number of LAN, Minimum CPU Entitlement, Maximum CPU Entitlement
SM Virtualization Logical Systems Performance Summary	Logical System Physical CPU Utilization
SM Virtualization Top and Bottom N Logical Systems	OS Type, Average Physical CPU Utilization (%), Average Physical Memory Utilization (%)
SM Virtualization Top and Bottom N	Processor Architecture, Number of Logical Systems,

Report	Metrics that are unavailable in reports with SiteScope integration
Nodes	Average Grade of Service
SM Virtualization Virtual Infrastructure Inventory	Logical System OS
SM Virtualization Logical System Performance Details	Physical CPU Utilization
SM Virtualization VMware ESX Server Detail Inventory	Number of disks, Number of network interfaces
SM Virtualization VMware Cluster Detail Inventory	CPU Capacity, Number of Network Interfaces unavailable in VMware ESX Node inventory VMware ESX Resource Pool Inventory tab will be empty CPU Limit, Number of disks, Number of network interfaces unavailable in Logical System Inventory
SM Virtualization VMware Inventory	Number of disks, Number of network interfaces, CPU Unreserved
SM Virtualization VMware Logical System Memory Bottleneck Details	Average Physical Memory Utilization Percentage
SM Virtualization VMware Top and Bottom N ESX Servers	Average Swap Utilization (%)
SM Virtualization VMware Top and Bottom N Logical System	Average Physical CPU Utilization (%), Average Physical Memory Utilization (%)

Network Component Health and Network Interface Health Reports

In the Network Component Health Overview and Network Interface Health Overview Reports, if the user drills down to 5 minute level, the time drill in hours, minutes and seconds appears as shown in the following image:



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Feedback on Troubleshooting Guide (Operations Bridge Reporter 10.20)

Just add your feedback to the email and click send.

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We appreciate your feedback!