

HPE Operations Bridge Reporter

Software Version: 10.01

Windows® and Linux operating systems

Oracle WebLogic Server Content Pack Reference

Document Release Date: June 2016 Software Release Date: June 2016

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About This Document

This document provides an overview of HPE OBR and Oracle WebLogic Server Content Pack. This document provides the list of Oracle WebLogic Server reports available with the Oracle WebLogic Server Content Pack. The document also lists the prerequisite aspects and policies required for HPE Operations Bridge Reporter (OBR) to integrate with HP Operations Smart Plug-ins (SPIs) and HP OMi Management Packs.

This document helps you to deploy the topology views, install and configure the data source for the Oracle WebLogic Server Content Pack, and configure the data source. It provides information on report navigation, metric mapping for report and calculate instance availability.

For information on HPE Operations Bridge Reporter tools and contents, go to URL: https://hpln.hpe.com/product/operations-bridge-reporter.

Getting Started

This section provides HPE OBR overview, deployment scenarios, and types of reports.

HPE Operations Bridge Reporter (OBR) Overview

HPE OBR is a cross-domain historical infrastructure performance reporting solution. It displays top-down reports from Business Service Management (BSM) Business Service and Business Application, HP Operations Manager (HPOM) Node Group or HP OMi10 perspective to the underlying infrastructure. It also displays bottoms-up 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 affects your Business Services and Business Applications or Node Groups in the long term. You can navigate from higher level cross domain reports to detailed domain level reports.

Deployment Scenarios

Following are the deployment scenarios supported on HPE OBR:

- Deployment with BSM/OMi In this deployment, Run-time Service Model (RTSM) is the source of topology information. HPE OBR discovers and synchronizes topology information from OMi. In a BSM environment with underlying HPOM servers, this synchronization technique receives discovered topology data from multiple HPOM systems and updates the Configuration Items (CIs) and CI relationships in the RTSM as soon as changes are discovered. However, you can also use the HPOM D-MoM dynamic topology synchronization technique to discover and synchronize the topology information in RTSM. In an environment with OMi 10.00, HPE OBR uses RTSM to obtain topology information and metrics from HP Operations Agent or HP SiteScope systems that are configured with OMi.
- Deployment with HP Operations Manager In this deployment, the topology information is a group of managed nodes defined in HPOM that are logically combined for operational monitoring. These logical node groups are created by HPOM users to classify the nodes as specific organizations or entities within their enterprise. For example, a group called Exchange Servers can be created in HPOM to organize the specific Exchange Servers and Active Directory nodes for reporting or monitoring purposes. HPE OBR uses the node groups from HPOM for its topology computation.

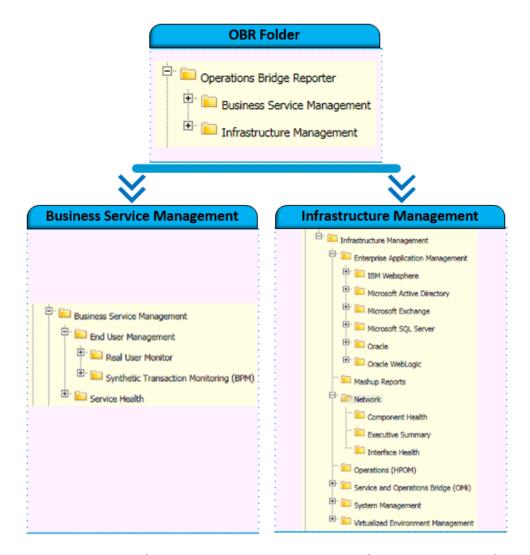
- Deployment with VMware vCenter VMware vCenter is a distributed server-client software solution that provides a central and a flexible platform for managing the virtual infrastructure in business-critical enterprise systems. VMware vCenter centrally monitors performance and events, and provides an enhanced level of visibility of the virtual environment, thus helping IT administrators to control the environment with ease.
- Other deployments Apart from the basic deployment scenarios, you can collect data from the following sources independently:
 - Deployment with NNMi
 - Deployment with a generic database
 - Deployment with other applications using CSV

Types of Reports

The reports available in HPE Operations Bridge Reporter (OBR) are divided into two broad categories:

- Business Service Management
- Infrastructure Management

The following image shows the supported list of reports folders under both these categories:



To view a map of all the reports available in the Oracle WebLogic Server Content Pack, see Report Navigation.

For more information on HPE Operations Bridge Reporter concepts, see HPE Operations Bridge Reporter Concepts Guide and HPE Operations Bridge Reporter Content Development Guide.

Oracle WebLogic Server Content Pack Overview

This section provides an overview of Oracle WebLogic Server Content Pack, target audience, and supported data sources.

The Oracle WebLogic Server Content Packs determine the fact data that are to be collected from the various data sources, and the interval at which the data is collected. Configuration of the data source connections for the Oracle WebLogic Server Content Packs depends on the type of deployment scenario used.

Target Audience

The target audience for the WebLogic reports is Operations Center Managers/Application Administrators, who help to setup and administer the various tasks involved in maintaining the web application servers in the IT infrastructure. The Oracle WebLogic reports help to identify and analyze the performance of WebLogic server instances over a period based on availability and responsiveness metrics so as to optimize the server parameters and appropriately consolidate consuming applications.

Data Sources for WebLogic Data

OBR integrates with and collects historical and ongoing database performance metrics from the HP Operations Smart Plug-In and HP OMi Management Pack for Oracle WebLogic Server data stores in both BSM Run-time Service Model (RTSM) and HPOM deployment scenarios.

The AppServer WebLogic Content Pack identifies the list of metrics or facts that OBR must collect from each of these data sources. The corresponding dimension data is collected from the RTSM or HPOM topology source, depending on OBR's deployment scenario.

OBR collects data from different data sources at periodic intervals based on the collection policies predefined in the **OracleWebLogic_ETL_WebLogicSPI Content Pack**. From each data source, summarized fact data is collected at a 5-minute interval. This fact data is called rate data and is stored in the database in rate tables as individual records. Therefore, for a 60-minute interval, there are 12 records in the tables. OBR then performs aggregation routines on these records and converts the data to hourly and daily data. This aggregated data is displayed in the reports along with monthly and yearly aggregates that are derived via online aggregation.

Integrating with Data Sources for HP Operations Smart Plugins

To show reports on the data collected from Oracle WebLogic Server, OBR relies on the metrics collected by collectors of HP Operations Smart Plug-ins for Oracle WebLogic Server (Oracle WebLogic Server SPI). SPI collectors store the data into the data store provided by the HP Operations agent. OBR's integration with SPI data sources facilitate transfer of data from HP Operations agent's data store to OBR's database. This integration is established when you deploy OBR in the HPOM deployment scenario.

OBR provides performance reports for the Oracle WebLogic Server enterprise applications.

Prerequisite

The following is the prerequisite to integrate with data source for HP Operations Smart Plug-ins:

 CODA logging is a prerequisite for HPE OBR to be able to collect data from multiple instances.

Working of the Integration

1. Installation and configuration of the SPI ensures that necessary instrumentation, scripts, programs, and policies are transferred to a node where the application is running and the HP Operations agent is already installed.

Tip: For successful installation and configuration of Oracle WebLogic Server SPI, see the SPI documentation.

- 2. SPI collectors start collecting data on the node based on rules and specifications available with the policies deployed on the node.
- 3. SPI stores the collected data into HP Operations agent's data store. The SPI creates at least one *data source* in agent's data store.
- 4. After configuring OBR to collect data from a data source and installing Oracle WebLogic Server, OBR starts collecting historical data from agent's data store.

Prerequisite Policies for Oracle WebLogic Reports

The following table lists the Oracle WebLogic SPI policies required by each Oracle WebLogic report.

Note: Policy Configuration Requirement is not required; deploy the policy with default settings.

Report Name	Data Source	Data Class	Required SPI Policy
WebLogic Servlet Performance Summary	WLSSPI	WLSSPI_ METRICS	WLSSP I_0240WLSSP I_0242
WebLogic JVM Utilization	WLSSPI	WLSSPI_ METRICS	WLSSP I_0005WLSSP I_0819
WebLogic Top N Summary	WLSSPI	WLSSPI_ METRICS WLSSPI_RPT_ METRICS	 WLSSP I_0025 WLSSP I_0010 WLSSP I_0012
WebLogic EJB Cache Hit	WLSSPI	WLSSPI_ METRICS WLSSPI_RPT_ METRICS	 WLSSP I_0061 WLSSP I_0262 WLSSP I_0238
WebLogic Transaction Performance Details	WLSSPI	WLSSPI_ METRICS WLSSPI_RPT_ METRICS	WLSSP I_0076WLSSP I_0070WLSSP I_0071
WebLogic JDBC Connection Pool Summary	WLSSPI	WLSSPI_RPT_ METRICS	 WLSSP I_0260 WLSSP I_0262 WLSSP I_0063 WLSSP I_0061 WLSSP

Report Name	Data Source	Data Class	Required SPI Policy
			I_0263 • WLSSP I_0265
WebLogic Executive Summary	WLSSPI	WLSSPI_RPT_ METRICS	 WLSSP I_0001 WLSSP I_0255 WLSSP
WebLogic JMS Performance Details	WLSSPI	WLSSPI_RPT_ METRICS	 WLSSP I_00256 WLSSP I_0251 WLSSP
WebLogic Server Availability Details	WLSSPI	WLSSPI_RPT_ METRICS	I_0252 • WLSSP I_0253 • WLSSP I_0254

Note: The SHR also collects data from the following policies:

WLSSPI_0011, WLSSPI_0035, WLSSPI_0036, WLSSPI_0026, WLSSPI_0014, WLSSPI_0284, WLSSPI_0285, WLSSPI_0286, WLSSPI_0287, WLSSPI_0288, WLSSPI_0823, WLSSPI_0072, WLSSPI_0073, WLSSPI_0074, WLSSPI_0075, WLSSPI_0079, WLSSPI_0224, WLSSPI_0225.

Using these policies, you can create OOTB custom reports.

Integrating with Data Sources for HP OMi Management Packs

To show reports on the data collected from Oracle WebLogic Server, OBR relies on the metrics collected by HP OMi Management Pack. The HP OMi Management Pack collectors store the data into the data store provided by the HP Operations agent. OBR's integration with HP OMi Management Pack data sources facilitates transfer of data from HP Operations agent's data store to OBR's database. This integration is established when you deploy OBR views in the RTSM deployment scenario.

OBR provides performance reports for the WebLogic Management Pack enterprise application.

Working of the Integration

1. Installation and configuration of an HP OMi Management Pack ensures that necessary instrumentation, scripts, programs, and policies are transferred to a node where the application is running and the HP Operations agent is already installed.

Tip: For successful installation and configuration of HP OMi Management Packs, see the HP OMi Management Pack documentation.

- 2. HP OMi Management Pack collectors start collecting data on the node based on rules and specifications available with the policies deployed on the node.
- HP OMi Management Pack stores the collected data into HP Operations agent's data store. HP OMi Management Pack creates at least one data source in agent's data store.
- 4. After configuring OBR to collect data from a data source and installing Content Packs, OBR starts collecting historical data from agent's data store.

Prerequisite Policies for Oracle WebLogic Reports

The following table lists the OMi MP for Oracle WebLogic policies and aspects required for each Oracle WebLogic report.

Report	Aspect	Policy Templates in Aspect	HP Operations agent	
Name	Name		Data Source Name	Data Class Name
WebLogic Servlet Performan ce Summary	Weblogic Servlet Performan ce	Weblogic_ ServletAverageExecutionTime Weblogic_ServletRequestRate	WEBLO GI C_ DATA	WEBLOGIC_ SERVLETS
WebLogic JDBC Connectio n Pool Summary	Weblogic JDBC Connectio n Pool Status	Weblogic_ ConnectionDelayTime Weblogic_ JDBCConnectionLeakRate Weblogic_ JDBCConnectionPoolThroughp utRate Weblogic_ JDBCConnectionPoolUtilization	WEBLO GI C_ DATA	WEBLOGIC_ JDBC

Report	Aspect Policy Templates in Aspect	HP Operations agent		
Name	Name		Data Source Name	Data Class Name
WebLogic Top N Summary	Weblogic JVM Heap Memory	Weblogic_JVMHeapUsage	WEBLO GI C_ DATA	WEBLOGIC JVM
	Weblogic JDBC Connectio n Pool Status	Weblogic_ ConnectionDelayTime Weblogic_ JDBCConnectionPoolThroughp utRate	WEBLO GI C_ DATA	WEBLOGIC JDBC
	Weblogic EJB Performan ce	Weblogic_ EJBCacheHitPercentage Weblogic_EJBPoolWaitCount	WEBLO GI C_ DATA	WEBLOGIC EJB_ TRANS WEBLOGIC EJB
WebLogic EJB Cache Hit	Weblogic EJB Performan ce	Weblogic_ EJBCacheHitPercentage	WEBLO GI C_ DATA	WEBLOGIC EJB_ TRANS
WebLogic JMS Performan ce Details	Weblogic JMS Performan ce	Weblogic_ JMSServerThruByteRate Weblogic_ JMSServerThruMessageRate Weblogic_ JMSUtilizationByBytesPercentag e Weblogic_ JMSUtilizationByMessagesPerc entage	WEBLO GI C_ DATA	WEBLOGIC JMS
WebLogic JVM Utilization	Weblogic JVM Heap Memory	Weblogic_JVMHeapUsage Weblogic_ JVMHeapFreeMemory	WEBLO GI C_ DATA	WEBLOGIC JVM

Report	Aspect	Policy Templates in Aspect	HP Operations agent	
Name	Name		Data Source Name	Data Class Name
WebLogic Server Availabilit y Details	Weblogic Server Status	Weblogic_ServerStatus	WEBLO GI C_ DATA	WEBLOGIC_ SERVER
WebLogic Transactio n Performan ce Details	Weblogic Transactio ns	Weblogic_ TransactionThroughputRate Weblogic_ TransactionAverageTime	WEBLO GI C_ DATA	WEBLOGIC_ TRANSACTI ON
WebLogic Executive Summary	Weblogic Server Status	Weblogic_ServerStatus	WEBLO GI C_ DATA	WEBLOGIC_ SERVER

Note: All the other metrics that were part of this report are collected from the System Management and OM SHR Content Packs.

Deploy Topology Views

To configure HPE OBR to collect domain-specific data, you need to deploy the topology views for Oracle WebLogic Server Content Pack. These topology views contain specific CI attributes that Oracle WebLogic Server Content Pack uses to collect the relevant data.

List of Content Pack and Topology Views to Deploy

The following table lists the topology views to deploy for Oracle WebLogic Server Content Pack:

Content Pack	View Name	Location
On Window	ws	
Oracle WebLogic Server	J2EEApplication.zip J2EEApplication_ OM.zip	<pre>For OM/SPI: %PMDB_ HOME%\packages\ApplicationServer\ETL_ AppSrvrWLS_WLSSPI.ap\source\cmdb_ views</pre>
		<pre>For OMi/MP: %PMDB_ HOME%\packages\ApplicationServer\ETL_ AppSrvrWLS_WLSMP.ap\source\cmdb_views</pre>
On Linux		
Oracle WebLogic Server	J2EEApplication.zip J2EEApplication_ OM.zip	For OM/SPI: \$PMDB_ HOME/packages/ApplicationServer/ETL_ AppSrvrWLS_WLSSPI.ap/source/cmdb_ views
		For OMi/MP: \$PMDB_ HOME/packages/ApplicationServer/ETL_ AppSrvrWLS_WLSMP.ap/source/cmdb_views

For more information on topology model views for the Oracle WebLogic Server Content Pack, see *HPE Operations Bridge Reporter Configuration Guide*.

HP BSM Server

To deploy the topology model views for the Oracle WebLogic Server Content Pack in the HP BSM server, follow these steps:

1. In the web browser, type the following URL:

http://<BSM system FQDN>/bsm where, <BSM system FQDN> is the FQDN of the HP BSM server.

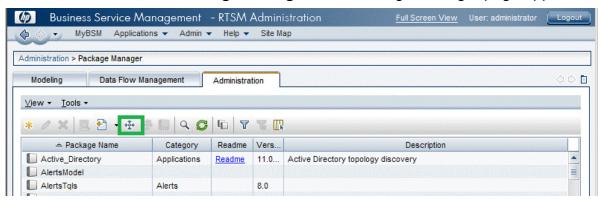
Note: You can launch the HP BSM server from a system where HPE OBR is installed or any other local system. If you are launching from local system, ensure that you browse to the location mentioned in List of Content Pack and Topology Views to Deploy and copy the required views to your local system.

The Business Service Management Login page appears.

- 2. Type the login name and password and click **Log In**. The Business Service Management Site Map appears.
- Click Administration > RTSM Administration. The RTSM Administration page appears.

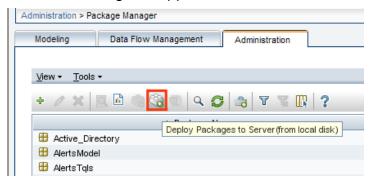


4. Click **Administration > Package Manager**. The Package Manager page appears.

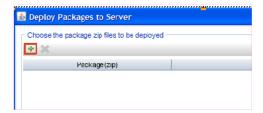


5. Click the Deploy Packages to Server (from local disk) icon. The Deploy Package

to Server dialog box appears.



6. Click the Add icon.



The **Deploy Package to Server (from local disk)** dialog box appears.

7. Browse to the location of the Content Pack zip files, select the required files, and then click **Open**.

You can view and select the TQL and ODB views that you want to deploy under **Select the resources you want to deploy** in the **Deploy Package to Server (from local disk)** dialog box. Ensure that all the files are selected.

8. Click **Deploy** to deploy the Content Pack views.

You have successfully deployed the Content Packs views based on the type of deployment scenario selected for HPE OBR.

HP OMi 10 Server

To deploy the topology model views for the Oracle WebLogic Server Content Pack in the HP OMi 10 server, follow these steps:

1. In the web browser, type the following URL:

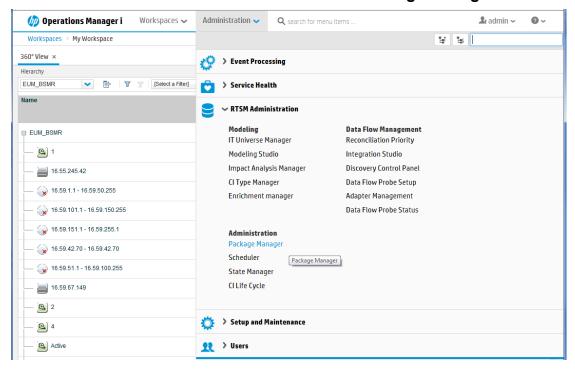
http://<OMi system FQDN>/omi where, <OMi system FQDN> is the FQDN of the HP OMi server.

Note: You can launch the HP OMi server from a system where HPE OBR is installed or any other local system. If you are launching from local system, ensure that you browse to the location mentioned in List of Content Pack and

Topology Views to Deploy and copy the required views to your local system.

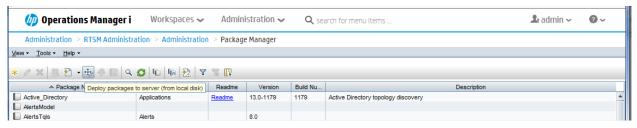
The Operations Manager i Login page appears.

- 2. Type the login name and password and click **Log In**. The Operations Manager i Workspace page appears.
- 3. Click Administration > RTSM Administration > Package Manager.

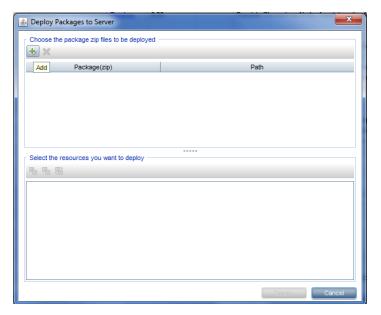


The Package Manager page appears.

4. Click the **Deploy Packages to Server (from local disk)** icon. The **Deploy Package to Server** dialog box appears.



5. Click the Add icon.



The **Deploy Package to Server (from local disk)** dialog box appears.

6. Browse to the location of the Content Pack zip files, select the required files, and then click **Open**.

You can view and select the TQL and ODB views that you want to deploy under Select the resources you want to deploy in the Deploy Package to Server (from local disk) dialog box. Ensure that all the files are selected.

7. Click **Deploy** to deploy the Content Pack views.

You have successfully deployed the Content Packs views based on the type of deployment scenario selected for HPE OBR.

Install the Content Pack

Before you begin to install the Content Packs, check the availability and integrity of the data sources.

Check Availability and Integrity of Data Sources

[[[Undefined variable _HPc_Basic_Variables.Short_Name]]] has Data Source Readiness Check tool that enables you to check the availability and integrity of RTSM and PA data sources before installing Content Packs. The tool is available on Windows and Linux operating systems. You can check the data source readiness using the property file or by database.

Check Data Source Related to RTSM

To check the availability and integrity of data source related to RTSM, follow these steps:

- 1. Log on to the [[[Undefined variable _HPc_Basic_Variables.Short_Name]]] system.
- 2. Before you check the data source readiness, ensure the following:
 - a. The **dscheck** folder is available in PMDB_HOME.
 - b. The dscheckRTSM.sh script is available in %PMDB_HOME%\dscheck\bin (On Windows) and \$PMDB_HOME/dscheck/bin (On Linux).
 - c. Property file is created with the following entries:

```
## RTSM DB connection properties
rtsm.hostname=<hostname>
rtsm.username=<username>
rtsm.password=<password>
rtsm.port=<port>
```

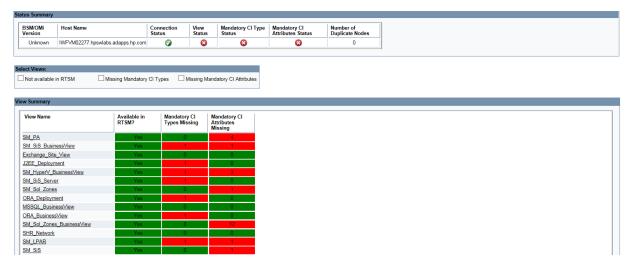
- 3. To check the data source readiness, run the following command in the command prompt:
 - a. cd {PMDB_HOME}/dscheck/bin
 - b. Check the data source readiness using:
 - i. Property file:

```
dscheckRTSM.sh -propFile <File_Path>///////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
```

ii. Database:

./dscheckRTSM.sh

You can open the .html file created in **dscheck** folder to check the availability and integrity of the RTSM data source.



The file displays the following information:

- i. Server status
- ii. Configuration details
- iii. Views available in RTSM
- iv. Mandatory CI types missing in the view
- v. Mandatory CI attributes missing with the CI type

Check Data Source Related to PA

To check the availability and integrity of data source related to PA, follow these steps:

- 1. Log on to the [[[Undefined variable _HPc_Basic_Variables.Short_Name]]] system.
- 2. Before you check the data source readiness, ensure the following:
 - a. The dscheck folder is available in PMDB HOME.
 - b. The dscheckPA.sh script is available in %PMDB_HOME%\dscheck\bin (On Windows) and \$PMDB_HOME/dscheck/bin (On Linux).
 - c. Property file with the entries of PA nodes is created.
- 3. To check the data source readiness, run the following command in the command prompt:

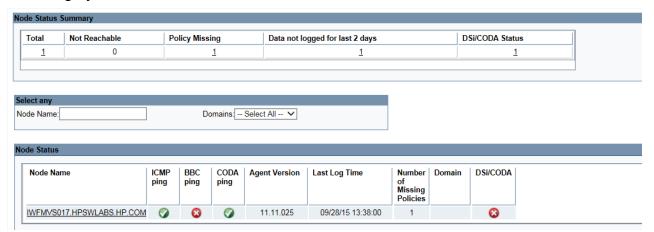
- a. cd {PMDB_HOME}/dscheck/bin
- b. Check the data source readiness using:
 - Property file:

dscheckPA.sh -propFile <File_Path>///where, <File_Path> is the path where property files is created.//property_file> is the name of the PA property file. For example, pa.prp.

ii. Database:

./dscheckPA.sh

You can open the .html file created in **dscheck** folder to check the availability and integrity of the PA data source.



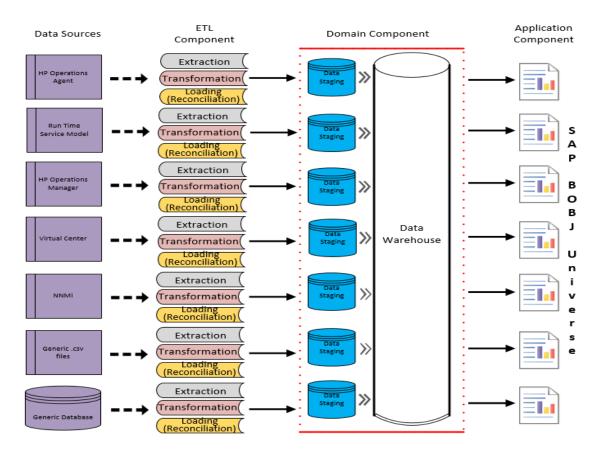
The file displays the following information:

- i. Node status summary
- ii. Node status

Selecting the Content Pack Components

A typical Content Pack consists of three components - the Domain, Extraction Transformation Loading (ETL), and Application components.

The following figure shows the typical data flow between the components of the Content Pack:



- Domain component: The Domain or Core Domain component defines the data model for a particular Content Pack. It contains the rules for generating the relational schema. It also contains the data processing rules, including a set of standard preaggregation rules, for processing data into the database. The Domain component can include the commonly-used dimensions and cubes, which can be leveraged by one or more Report Content Pack components. The Domain Content Pack component does not depend on the configured topology source or the data source from where you want to collect data.
- ETL (Extract, Transform, and Load) component: The ETL Content Pack component defines the collection policies and the transformation, reconciliation, and staging rules. It also provides the data processing rules that define the order of execution of the data processing steps.

A single data source app.lication can have multiple ETL components. For example, you can have one ETL component for each virtualization technology supported in Performance Agent such as Oracle Solaris Zones, VMware, IBM LPAR, and Microsoft HyperV. The ETL component can be dependent on one or more Domain components. In addition, you can have multiple ETL components feeding data into the same Domain component.

The ETL Content Pack component is data source dependent. Therefore, for a particular domain, each data source application has a separate ETL Content Pack component.

Note: If you have installed WebLogic SPI ETL already and are migrating from OM to OMi10 or upgrading to latest OMi Management Pack for WebLogic, uninstall the Oracle WebLogic SPI ETL and deploy the latest Oracle WebLogic MP ETL.

Application component: The Application Content Pack component defines the
application-specific aggregation rules, business views, SAP BOBJ universes, and the
reports for a particular domain. Report components can be dependent on one or more
Domain components. This component also provides the flexibility to extend the data
model that is defined in one or more Domain components.

The list of Content Pack components that you can install depends on the topology source that you configured during the post-install configuration phase of the installation. Once the topology source is configured, the Deployment Manager filters the list of Content Pack components to display only those components that can be installed in the supported deployment scenario. For example, if RTSM is the configured topology source, the Deployment Manager only displays those components that can be installed in the SaOB and APM deployment scenarios.

Install the Content Pack in Deployment Manager

To install the required Oracle WebLogic Server Content Pack, follow these steps:

1. Launch the Administration Console in a web browser using the following URL:

```
http://<OBR_Server_FQDN>:21411
```

2. In the Administration Console, click **Administration > Deployment Manager**. The Deployment Manager page is displayed.

To install this Content Pack and to generate reports on data from HPOM, BSM, or OMi, make the following selections:

- OracleWebLogic_ETL_WebLogicSPI¹ (10.00.000)
- OracleWebLogic_ETL_WebLogicMP² (10.00.000)
- OracleWebLogic_Domain (10.00.000)

¹Use OracleWebLogic_ETL_WebLogicSPI to gather data from HPOM Smart Plug-in for WebLogic.

²Use OracleWebLogic_ETL_WebLogic_MP to gather data from OMi Management Pack for WebLogic.

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Tip: Install the following dependent Content Packs (and their components) along with this Content Pack for it to function:

- Core
 - Core Domain
 - Core_Domain_AppServer
- · Operations Manager
 - OprEvent Domain Reports
- System Performance
 - SysPerf_Domain

Note: The dependent domain content pack get selected automatically, you have to select only the ETLs based on the topology source.

Note: For more details on ETLs, see *HPE Operations Bridge Reporter Content Pack Release Notes*.

3. Click Install/Upgrade to install the Content Packs.

The color of the status column changes for all the selected Content Packs. An Installation Started status appears in the **Status** column for Content Pack that is currently being installed. The Deployment Manager page automatically refreshes itself to display the updated status. Once the installation completes, an Installation Successful status appears. If the installation fails, an Installation Failed status appears.

Note: The timer service will be stopped automatically during install/uninstall/upgrade operation and will be started once operation is complete.

4. Click the link in the **Status** column for more information about the installation process.

The Content Pack Component Status History window displayed. It displays the details of the current and historical status of that Content Pack component's installation.

Note: During install/uninstall process, Deployment Manager does not allow you to interrupt the process. Instead, you must wait till the current process is complete before you can perform any other operations on the Deployment Manager page.

Note: If you had WebLogic SPI ETL already installed and are migrating from OM to OMi10 or upgrading to latest OMi Management Pack for WebLogic, uninstall the Oracle WebLogic SPI ETL and deploy the latest Oracle WebLogic MP ETL.

Uninstalling the Content Pack Components

Use the Deployment Manager utility to uninstall the Content Pack components.

To uninstall the Content Packs, follow these steps:

- 1. Launch the Administration Console in a web browser:
 - a. Launch the following URL:

```
https://<OBR Server FQDN>:21412/
```

b. Type **administrator** in the **Login Name** field and password in the **Password** field. Click **Log In** to continue. The Administration Console page appears.

Note: If you use any other user account to access the Administration Console, make sure that the user account has administrator privileges.

2. On the left pane, click **Administration**, and then click **Deployment Manager**. The **Deployment Manager** page appears.

The Deployment Manager displays the Content Pack components that are installed in the supported deployment scenario. For the list of Content Pack, see "List of Content Pack and Topology Views to Deploy" on page 16.

3. Click icon for the required Content Pack to be uninstalled. A summary message is displayed.

Note: At a time, only one Content Pack and its dependent Content Packs are uninstalled.

4. Click **OK** to uninstall the Content Pack. The uninstall status is displayed in the **Status** column.

Data Source Collection Configuration

After installing Content Packs, you must configure HPE OBR to collect required data from various data collectors. The data collectors work internally within the HPE OBR infrastructure to collect the data. Therefore, you cannot directly interface with these collectors. Instead, you can specify the data sources from where the collectors can collect the data through the Administration Console.

In HPOM deployment scenario, HP Operations Agent monitors the physical and virtual nodes. When you configure data source in this scenario, choose HP Operations Agent as the data source.

Configuring the HP Operations Agent Data Source

In the RTSM deployment scenario, you do not have to create new HP Operations Agent data source connections. Because, by default, all the nodes on which HP Operations Agent is installed are automatically discovered when the topology information is collected. These data sources or nodes are listed in the HP Operations Agent Data Source page of the Administration Console.

To view the list of HP Operations Agent data sources, follow these steps:

- In the Administration Console, click Data Source Configuration > HP
 Operations Agent. The HP Operations Agent Data Source page appears.
- To view detailed information about the HP Operations Agent data sources, click the Domain name or the number in the HP Operations Agent Data Source Summary table. The HP Operations Agent Data Source Details table appears.
- To change the data collection schedule for one or more hosts, specify a polling time between 1 and 24 hours in the Hrs box in the Schedule Polling Frequency column.
- 4. Click **Save** to save the changes. A Saved Successfully message appears in the Information message panel.

Report Navigation

The Oracle WebLogic reports are categorized into high-level Executive Summary and detailed Performance reports. You can navigate from the higher-level reports to the detailed reports using the various cross launch and hyperlink features. For example, you may start with the WebLogic Executive Summary for an overall picture of the health of the WebLogic servers and then navigate to the detailed reports for specific information.

The Oracle WebLogic Server reports display the availability, utilization, and performance information for the following:

- Oracle WebLogic servers
- Enterprise Java Beans (EJBs) used by the Oracle WebLogic servers
- Java Database Connectivity (JDBC) pools used by the Oracle WebLogic servers
- Java Messaging Service (JMS) servers embedded to the Oracle WebLogic servers
- Java Virtual Machines (JVMs) running on the Oracle WebLogic servers
- · Servlets registered, deployed, and mapped to the Oracle WebLogic servers
- Execute queue for the WebLogic servers
- Business transactions in the WebLogic servers
- Nodes configured to use Oracle WebLogic servers
 These reports also help to analyze the application server performance impact in the context of an associated Business Service and/or Business View/ Node Group.

New Oracle WebLogic Server Content Pack Report

The following is the new Oracle WebLogic Server report:

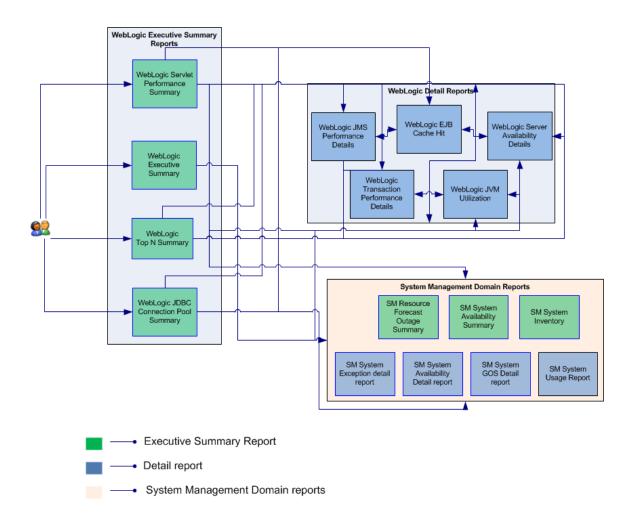
 WebLogic Server Availability - Displays the availability details of the WebLogic server, as a heat-map based on predetermined thresholds, for every hour across the selected time period.

Note: This availability report presents the instance availability information for the application. This report should not to be used for uptime calculation.

Availability	Color
< 90	
> 90 and < 95	
> 95	

Report Navigation

Report navigation can vary depending on the use-cases around which these reports are designed and the following diagram represents a way of navigating the reports:



Use Cases

This section provides information on use cases for Oracle WebLogic Server reports. The following table provides description, user, and report name for the use cases:

Description	Report Category	Report Name
To view the response time and request rate for all servlets of the nodes that belong to a given service	Executive Summary	WebLogic Servlet Performance Summary
To view the top 5 web server instances based on JVM memory	Executive Summary	WebLogic Top 5 Summary

Description	Report Category	Report Name
utilization, execute queue wait count, JDBC delay time, EJB wait rate for a given service		
To view the top 5 JDBC pools based on delay time, leak rate, throughput rate and utilization percentage for all nodes that are part of a given service	Executive Summary	WebLogic JDBC Connection Pool Summary
To have a consolidated view of the inventory, availability, current and forecasted capacity usage of all weblogic instances hosted on nodes that are part of a given service	Executive Summary	WebLogic Executive Summary
To view the performance details in terms of throughput rate for and utilization for a JMS, over a period of time, for a given node and instance	Performance	WebLogic JMS Performance Details
To view the cache utilization by a EJB over a period of time, for a given node and instance	Performance	WebLogic EJB Cache Hit
To view the heap space utilized by a JVM instance over a period of time, for a given node and instance	Performance	WebLogic JVM Utilization
To view the availability of a server instance over a period of time, for a given node and instance	Performance	WebLogic Server Availability Details
To view the performance of a transaction in terms of commit time and throughput rate over a period of time, for a given node and instance	Performance	WebLogic Transaction Performance Details

Appendix

This section provides information on Terminology, Calculating WebLogic Server Instance Availability and Metric Mapping for Reports.

Appendix A: Terminology

Business Service: Any service created in BSM Run-time Service Model (RTSM) and is part of your business, such as the online banking service or email service.

Business View: A view deployed on BSM RTSM that provides the topology information of the configuration items in your IT environment.

Node Groups: Group of managed nodes defined by users or available by default in HP Operations Manager (HPOM) to classify as specific organizations or entities within the enterprise. OBR uses the node groups from HPOM for its topology information.

Instance Up Time Percentage: The percentage of time the server instances were up and running for a selected node.

Instance Down Time Percentage: The percentage of time the server instances were down and unavailable for a selected node.

Instance Unknown Time Percentage: The percentage of time the availability status of the server instance was unknown to OBR.

JDBC Delay Time: The amount of time that a client has to wait to get a JDBC connection from the connection pool.

EJB Wait Rate: The number of times per minute that no EJBs were available from the free pool.

EJB Cache Hit: The number of used EJBs in the cache.

Appendix B: Calculating WebLogic Server Instance Availability

HPE OBR collects five-minute summary data for the Oracle WebLogic Server from the HP Performance Agent. This data is in the form of status values as follows:

- Downtime-0
- Uptime—5

The status values are stored in the rate table. The availability calculation procedure in HPE OBR uses this information to calculate the actual uptime, downtime, availability and unknown time values for 5 minute interval. The possible scenarios are as follows:

- If the status value is 5, the procedure interprets it as uptime. The procedure updates the uptime value as 5, and downtime and unknown time values as 0 in the rate table.
- If the status value is 0, the procedure interprets it as downtime. The procedure updates the downtime value as 5, and uptime and unknown time value as 0 in the rate table.
- If, for some reason, HPE OBR is unable to retrieve the status value for particular interval (12 records within an hour, that is, one record each for every five minutes), the procedure interprets it as unknown status. The procedure updates the uptime and downtime values as 0 and unknown time value as 5 in the rate table.

The availability calculation procedure for Oracle WebLogic Server instances ensures that 12 records are available for every hour and each record would either represent uptime, downtime, or unknown time. Using this data, the actual uptime, actual downtime, availability and unknown times are calculated as follows:

Actual Uptime Percentage

Uptime/(Uptime + Downtime)*100

Actual Downtime Percentage

[(Downtime /(Uptime + Downtime)]*100

· Availability Computation

[(Uptime + Planned Downtime + Excused Downtime)/(Uptime + Downtime)]*100

• Unknown Time Percentage

[(Unknown Time)/(Uptime + Downtime + Unknown Time)]*100

The availability procedure computes the planned downtime and excused downtime based on the configuration provided in the downtime XML file.

For more information on how to configure downtime, see *Configuring downtime in reports* section in *HPE Operations Bridge Reporter Online Help for Administrators*.

Appendix C: Metric Mapping for Reports

HPE OBR provides a utility to generate metric flow documents. The utility has strong filtering capabilities and generates the metric flow documents in HTML format. These HTML output files can then be saved in Excel for further filtering and metric tracking.

To generate the metric flow documents, follow these steps:

1. Run the utility using the following command:

On Windows:

%PMDB_HOME%\bin\shr_utility -flow -dir %PMDB_ HOME%\packages\ApplicationServer

On Linux:

\$PMDB_HOME/bin/shr_utility -flow -dir \$PMDB_ HOME/packages/ApplicationServer

The command generates multiple HTML output files in the current directory.

2. Open the HTML output file in Excel.

You can apply combination of filters to compare and track a particular metric(s).

Note: The output file in Excel format is published for some of the Content Packs. You can download the files from the following URL:

https://hpln.hp.com/node/24267/attachment

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Just add your feedback to the email and click send.

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