HP Operations Smart Plug-in for Oracle Application Server

For HP Operations Manager for Windows®

Software Version: 6.10

PDF version of the online help

This document is a PDF version of the online help that is available in the Oracle Application Server SPI. It is provided to allow you to print the help, should you want to do so. Note that some interactive topics are not included because they will not print properly, and that this document does not contain hyperlinks.

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Software Release Date: October 2008

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HP Operations Smart Plug-in for Oracle Application Server

The HP Operations Smart Plug-in for Oracle Application Server (Oracle AS SPI) is a full-featured SPI that allows you to manage Oracle Application Servers from an HP Operations Manager console. For detailed information about configuring the HP Operations Smart Plug-in for Oracle Application Server (Oracle AS SPI), refer to the *HP Operations Smart Plug-in for Oracle Application Server Configuration Guide* located on HP Operations Operations Smart Plug-ins DVD in the file `\Documentation\SPI Guides\Oracle_AppServer_Config.pdf` .

Related Topics:

- Overview
- Getting Started
- Components

Overview

The Smart Plug-in for Oracle Application Server (Oracle AS SPI) is a full featured SPI that allows you to manage Oracle Application Server from an HP Operations Manager(HPOM) for Windows console. Oracle AS SPI adds monitoring capabilities otherwise unavailable to HPOM.

Smart Plug-in integration uses : The Oracle AS SPI, used in conjunction with HPOM, offers centralized tools that help you monitor and manage systems using Oracle Application Server. From the HPOM console, you can monitor the availability, use, and performance of Oracle Application Servers running on HPOM managed nodes. You can set threshold values for Oracle AS SPI metrics. When these thresholds are crossed Oracle AS SPI generates an alarm/message. The metrics can also be consolidated into reports and graphs which help you analyze trends in server usage, availability, and performance. You can integrate Oracle AS SPI with HP Reporter and HP Performance Manager to get additional reporting and graphing flexibility and capabilities.

Smart Plug-in data collection: When you install and configure the Oracle AS SPI, key server-related metrics also get installed. These metrics cover the following areas:

- server availability
- server performance
- JVM memory usage
- EJB client and method wrapper active threads, execution times, and calls processes
- servlet executing times and threads
- JSP service time and active requests
- Java message service connections and messages
- JDBC connection status
- Web application processing and open sessions
- HTTP server active connections and processed data

Smart Plug-in uses/ customizations: You can choose the metrics most crucial for the operation of Oracle Application Server by modifying Oracle AS SPI policies. These policies contain settings that allow incoming data to be measured against predefined rules that generate useful information in the form of messages. These message have severity-level color-coding and can be reviewed for problem analysis and resolution. When you double-click a message, corrective actions appear under the Instructions tab and automatically generated metric reports appear under the Annotations tab.

Related Topics:

- Getting Started
- Components

Getting Started

The messaging, reporting, and action-executing capabilities of Oracle Application Server (Oracle AS SPI) Smart Plug-in are based on the HPOM concept of policies. The settings within these policies define various conditions within the Oracle Application Server. After the Oracle AS SPI policies are deployed on the managed nodes, Oracle AS SPI can gather information and send it to the HPOM management server. You can use this information to proactively address potential or existing problems and avoid serious disruptions to Web transaction processing. Oracle AS SPI helps you perform the following functions:

- Collect and interpret server performance/availability information

  After you configure and deploy Oracle AS SPI on the managed nodes, Oracle AS SPI gathers data that is interpreted and acted upon, according to settings within the deployed policies. The Oracle AS SPI policies define conditions that can occur within the Oracle Application Server, such as throughput rates and execution times. Default thresholds, set within the policies, monitor these conditions and trigger messages to the console when a threshold is exceeded.

- Display information

  Messages in the Message Browser: HP Operations agent software compares the values gathered for Oracle Application Server performance/availability against related policy settings and forwards appropriate messages to the HPOM console. These messages appear with color-coded severity levels in the HPOM Message Browser.

  Instruction Text: Messages generated by Oracle AS SPI programs contain instruction text which you can use to diagnose and remedy problems. To view the text, double-click the message and select the Instructions tab.

  The HPOM management server automatically triggers corrective actions preassigned to events. You can trigger these corrective actions manually also. This text is also available at metric definition .

  ASCII-Text Reports: In addition to Instruction text, automatic action reports are generated for metrics with alarms, when a defined threshold is exceeded. These reports show conditions of a specific Oracle OC4J/OHS server instance. When a report is available, double-click the message and select the Annotations tab.

- Generate reports using HP Reporter

  You can integrate Oracle AS SPI with HP Reporter to get management-ready, Web-based reports. Policies for generating these reports are included in the Oracle AS SPI Report package, which you can install on the Reporter Windows system. After you install the Oracle AS SPI Report package and complete basic configuration, new reports of summarized, consolidated data are generated every night. These reports help you assess the performance of Oracle OC4J/OHS server over a period of time.

- Graph data with HP Performance Manager

  You can integrate Oracle AS SPI with HP Performance Manager to generate graphs (using the OASSPI Admin → View Graphs tool) that show the Oracle AS SPI collected metric values. If you have purchased

HP Performance Manager, use it according to its instructions.

- Customize Oracle AS SPI Policies

  You can either use Oracle AS SPI policies without customizing or you can customize them them as you find necessary. The minor modifications and major customizations that you can make are listed below:

  - Modify Default Policies: Within a policy, you can change the default settings for:
    - collection interval
    - threshold
    - message text
    - duration
    - severity level of the condition
    - actions assigned to the condition (operator-initiated or automatic)
- Create Custom Policy Groups: You can create custom policy groups using default policies as a starting point.

Related Topics:

- Overview
- Components

Oracle AS SPI Components

The Oracle Application Server Smart Plug-in (Oracle AS SPI) has two components:

- Tools
- Policies

These components allow you to configure and receive data in the form of messages, annotations, and metric reports. These messages (available in the Message Browser), annotations (available through message properties), and metric reports (available through tools) provide information about the condition and performance of the server or servers running on specific managed nodes.

You can configure the management server's connection to named server instances on managed nodes using the Oracle AS SPI configuration tools. After configuring the connection, you can assign policies to the nodes.

The HP Operations agent software that runs on the managed nodes, enables you to use Oracle AS SPI reporting tools to generate metric reports. In addition, you can generate graphs that show Oracle AS SPI data (available through message properties).

Related Topics:

- Tools
- Policies
- Reports and graphs
- Getting Started
- Overview

Tools

The Smart Plug-in for Oracle Application Server (Oracle AS SPI) tools include configuration, troubleshooting and report-generating utilities. From the HPOM console, select Tools → SPI for Oracle AS to access the tools. The Oracle AS SPI tools are divided into four groups:

- OASSPI Admin tools group :These tools allow you to configure, control and troubleshoot Oracle AS SPI.
- Oracle AS SPI tools group : Tools in this group provide access to the functions of Oracle Application Server.
- OASSPI Reports tools group : Oracle AS SPI reports show information about the Oracle Application Server .
- OASSPI Reports (JMX) tools group : OracleAS SPI Reports (JMX) group contains ascii metric reports that display information about the condition of the Oracle Application Server (JMX). This tool group is only available for Oracle Application Server version 10gR3.

Related Topics:

- Components
- Policies
- Getting Started

OASSPI Admin tools group

OASSPI Admin tools allow you to configure, control, and troubleshoot the Oracle AS SPI.

For a detailed description of the tools, click the tool name in the table below.

Tool	Description
Create OASSPI Node Groups	Create Oracle AS SPI node groups based on discovered services.
Configure OASSPI	Launches the Configuration Editor and maintains the Oracle AS SPI configuration .
Discover Oracle AS	Sets basic configuration properties needed for discovery.
Self-Healing Info	Collects data to be sent to your HP support representative.
Start Monitoring	Starts the collection of metrics for one OC4J/OHS server or all OC4J/OHS servers on a managed node.
Stop Monitoring	Stops the collection of metrics for one OC4J/OHS server or all OC4J/OHS servers on a managed node.
Start Tracing	Starts the tracing of the collection of metrics.
Stop Tracing	Stops the tracing of the collection of metrics.
Verify	Verifies that the Oracle AS SPI is installed properly on the server or a managed node.
View Error File	Allows you to view the Oracle AS SPI error log.

Related Topics:

- OASSPI Reports tools group
- Oracle AS SPI tools group
- OASSPI Reports (JMX) tools group

Create OASSPI Node Groups

Create OASSPI Node Groups tool allows you to create OASSPI node groups based on discovered services. These node groups contain all the managed nodes on which supported versions of Oracle Application Servers are running.

If you add new managed nodes then you must run Create OASSPI Node Groups tool again to add these managed nodes to the Oracle AS SPI node groups.

Function

Create OASSPI Node Groups performs the following functions:

- In the Nodes folder, creates the SPI for Oracle Application Server node group.
- Places all HPOM managed nodes running supported version of Oracle Application Server in the node groups.
- Assigns tools, reports, and graphs to the nodes and node groups.

To launch Create OASSPI Node Groups tool

1. From the HPOM console, select Tools → SPI for Oracle AS → OASSPI Admin .
2. Double-click Create OASSPI Node Groups . The Tool Status window opens.
3. In the Launched Tools field, check the status of the tool for each node:

   - Started/Starting - The tool is running.
   - Succeeded - Oracle AS SPI has successfully created the node groups. Scroll to the bottom of the Tool Output field. The message "Done " appears.
   - Failed - The tool did not succeed. For more information about the problem scroll through the Tool Output field .
4. Click Close to close the Tool Status window.
5. To verify whether the node group has been created, select Nodes → SPI for Oracle Application Server . A node group for each Oracle Application Server version is created. This node group contains the managed nodes running that particular OC4J/OHS server version.

   If no managed nodes are running a particular version of the OC4J/OHS server, an empty node group is created.

Configure OASSPI

Configure OASSPI tool launches the Oracle AS SPI configuration editor and allows you to manage the configuration of Oracle AS SPI by viewing, editing, or setting configuration properties .

If you are configuring the Oracle AS SPI for the first time, you must use the Discover OracleAS tool to automatically set basic configuration properties. For complete instructions on how to configure Oracle AS SPI, refer to the *HP Operations Smart Plug-in for Oracle Application Server Configuration Guide* available on the HP Operations Smart Plug-ins DVD in the file `\Documentation\SPI Guides\Oracle_AppServer_Config.pdf` .

Function

Configure OASSPI performs the following functions:

- Updates the configuration on the HPOM management server and selected managed nodes.
- Creates the directories and files required by Oracle AS SPI on the selected managed nodes.
- Sets up data sources for reporting and graphing.
- Sets up the Oracle Application Server log files and Oracle AS SPI error log file for monitoring.

The HPOM management server maintains the configuration information for all Oracle Application servers on HP Operations Manager managed nodes. Each managed node maintains a subset of the configuration information maintained on the management server. The configuration information of Oracle Application servers on a node is maintained on that managed node.

When you make changes to the configuration using the configuration editor, the changes are always saved on the HPOM management server.

If you select a specific HPOM managed node when you launch Configure OASSPI, then configuration changes affecting Oracle Application Servers running on that node are automatically saved on the node. If you do not select a managed node then the configuration changes are *not* saved on the managed node.

Configuration changes affecting non-selected managed nodes are saved to the configuration on the HPOM management server and *not* on the non-selected managed node. To save the changes on the node you must select the managed node and re-run the Configure OASSPI tool.

To launch configure OASSPI tool

1. From the HPOM console, select Tools → SPI for Oracle AS → OASSPI Admin .
2. Double-click Configure OASSPI .

3. Select the managed nodes you want to configure.
4. Click Launch . The Console Status window opens and then the Introduction window opens. This window contains information about the Configure OracleAS tool.
5. Click Next .
6. The configuration editor appears. Set the configuration properties . For more information about using the configuration editor to set properties refer to Components of configuration editor .
7. Optionally, click Save to save any changes made to the configuration. After you have saved the changes you cannot automatically undo them.
8. Click Finish or Next to save changes and exit the editor.

   If you click Next , the Confirm Operation window opens. Click OK .

   NOTE:
   If you select Cancel but have saved your changes to the configuration, those changes remain in the configuration on the management server.

9. Scan the Console Status window for error messages. If none appear, click Close .
10. If you add an application server or add/edit either or both of the following properties:
    - HOME
    - PORT

    then run Discover OracleAS tool on the managed nodes on which the application server/properties were added or edited. Running Discover OASSPI updates the service map.

Discover Oracle AS

Discover Oracle AS launches the configuration editor that you can use to configure Oracle AS SPI by setting basic configuration properties needed for discovery.

The Discover Oracle AS tool deploys the discovery policies on the managed nodes. These polices automatically discover instances of Oracle Application servers on the managed nodes and update the configuration.

Function

Discover Oracle AS updates the configuration on the HP Operations Manager (HPOM) management server and selected managed nodes.

Configuration information for all Oracle OC4J/OHS servers on all HPOM managed nodes is maintained on the HPOM management server.
Each managed node maintains a subset of the information maintained on the management server. The managed node maintains configuration information about the OC4J/OHS servers running on that node.

You must select an HPOM managed node before you launch this tool. All configuration changes made to the Oracle OC4J/OHS server on the selected node will be automatically saved on that node.

If the changes affect a server on a non-selected node, then the changes will be saved to the configuration on the management server and not on the non-selected node. To save the changes on the managed node, select that managed node and re-run the Discover Oracle AS tool.

To launch Discover Oracle AS tool

Launch the Discovery tool on one managed node at a time.You must run the Discover Oracle AS tool to set the basic configuration properties required for the Oracle AS SPI to discover instances of the Oracle Application Server, deploy the Oracle AS SPI discovery templates, and update the service map.

 NOTE:
If an instance of Oracle AS Server has a server login name and password different from the default login and password, before launching the discovery tool you must explicitly configure the login details for that server using the configuration editor.

Follow these steps:

1. At the HPOM console, double-click OVO Node Bank. The OVO Node Bank window opens.
2. From the Window menu, select Application Bank . The OVO Application Bank opens in a new window.

3. Double-click OASSPI . The Application Group: OASSPI window opens.
4. Double-click OASSPI Admin . The Application Group: OASSPI Admin window opens. All the OASSPI Admin applications appear in this window.
5. Select a node from the OVO Node Bank window and double-click Discover OracleAS (If the above does not appear as described, select Map —> Reload .) The Introduction window opens. This window contains brief information about the Discovery application.
6. Click Next . A second Introduction window opens. This window displays information about the properties that might be required for the discovery process to work.
7. Click Next . If you already set the LOGIN and PASSWORD properties, the configuration editor opens. If you did not set the LOGIN and PASSWORD properties, the Set Access Info for Default Properties window opens.
8. Set the same LOGIN and PASSWORD properties as configured in the Oracle AS login and password.

   NOTE:
   The LOGIN and PASSWORD properties set in this window are used as the default Oracle AS login and password (they are set at the global properties level). That is, if no NODE level or server-specific LOGIN and PASSWORD properties are set, this Oracle AS login and password are used by the Oracle AS SPI to access all Oracle AS servers.

9. Click Next . The configuration editor opens.
10. From the configuration editor, set the configuration properties.
11. Click Next to save any changes and exit the editor.
12. The Confirm Operation window opens. Verify the nodes on which the operation is to be performed. Click OK .

    NOTE:
    If you click Cancel and made changes to the configuration, those changes remain in the configuration on the management server. To make the changes to the selected managed nodes' configuration, you must select those nodes in the Node Bank window, start the Discover Oracle AS application, click Next from the configuration editor, and then click OK .

    If the discovery is not successful, the following message appears in the window:
    `Failed to run discovery on node <node>`

Self-Healing Info

Self-Healing Info tool collects data that you can send to your HP support representative.

The data collected by the Self-Healing Info tool is saved in the following file:

- On a UNIX managed node: `/tmp/wasspi_oas_support.tar`
- On a Windows managed node: `wasspi_oas_support.zip` in `%TEMP%` directory.

NOTE:
This file may be hidden on some Windows managed nodes. If you do not see the file, open Windows Explorer → Tools → Folder Options . Click the View tab. Under Hidden files and folders , select Show hidden files and folders .

Required Setup

If you are collecting data for a problem that can be reproduced, then before launching the Self-Healing Info tool:

1. Launch the Start Tracing tool.
2. Reproduce the problem.

Start Monitoring

When you run the Start Monitoring tool, the Oracle AS SPI starts collecting metrics for OC4J/OHS server instances on a managed node.

Function

Start Monitoring tool enables Oracle AS SPI to start collecting the metrics for one or all the OC4J/OHS servers on a managed node.

These metrics generate alarms when thresholds are exceeded. You can also use the metrics to create reports (automatically or manually generated) and graphs. These reports and graphs are used to analyze trends in server usage, availability and performance.

Run the Verify tool to check whether the monitoring has started or stopped. By default, monitoring is on.

To launch Start Monitoring tool

1. From the HPOM console, select Tools → SPI for Oracle AS → OASSPI Admin .
2. Double-click Start Monitoring .
3. Select the managed nodes on which you want to start metric collection.
4. Click Launch . The Console Status window and then the Oracle AS SPI Admin Console opens.
5. From the Oracle AS SPI Admin Console, select one application server or all application servers on which you want to start metric collection.
6. Click OK .
7. From the Console Status window in the Launched Tool field, check the status of the tool for each node:
   - Started/Starting - The tool is running.
   - Finished - The Start Monitoring process is complete. For more information scroll through the Tool Output field.
8. Click Close to close the Console Status window.

Stop Monitoring

When you run the Stop Monitoring tool, the Oracle AS SPI stops collecting metrics for one or all the OC4J/OHS servers on a managed node.

Function

Stop Monitoring tool stops the collection of metrics for one or all the OC4J/OHS servers on a managed node.

These metrics generate alarms when thresholds are exceeded. You can also use the metrics to create reports (automatically or manually generated) and graphs. These reports and graphs are used to analyze trends in server usage, availability and performance.

Run the Verify tool to check whether the monitoring has started or stopped. By default, monitoring is on.

To launch Stop Monitoring tool

1. From the HPOM console, select Tools → SPI for Oracle AS → OASSPI Admin .
2. Double-click Stop Monitoring .
3. Select the managed nodes on which you want to stop metric collection.
4. Click Launch . The Console Status window and then the Oracle AS SPI Admin Console opens.
5. From the Oracle AS SPI Admin Console, select one application server or all application servers on which you want to stop metric collection.
6. Click OK .
7. From the Console Status window in the Launched Tool field, check the status of the tool for each node:
   - Started/Starting - The tool is running.
   - Finished - The monitoring process is complete. For more information scroll through the Tool Output field.
8. Click Close to close the Console Status window.

Start Tracing

When you launch the Start Tracing tool, Oracle AS SPI starts gathering tracing information for selected metrics and logs the information in a file. You must run this tool only when instructed by your HP support representative.

Self-Healing Info tool collects the files created by the Start Tracing tool as part of its data. This data is used by the HP support representative.

Function

Start Tracing enables the tracing when the collector is running. You can send the trace files that are generated to the HP support representative to find more information about the collection done.

To launch Start Tracing tool

1. From the HPOM console, select Tools → SPI for Oracle AS → OASSPI Admin .
2. Double-click Start Tracing .
3. Select the managed nodes on which you want to start the tracing.
4. Select Launch . The Tool Status window opens.
5. Check the status of the tool for each node, in the Launched Tools field:

   - Started/Starting - The tool is running.
   - Succeeded - Tracing successfully started for Oracle AS SPI on the managed node. Select the node in the Launched Tools field and scroll to the end of the Tool Output field. The message "Tracing is ON." appears.
   - Failed - The tool did not succeed. For more information about the problem select the node in the Launched Tools field and scroll through the Tool Output field.
6. Select Close to close the Tool Status window.

Stop Tracing

When you run the Stop Tracing tool the Oracle AS SPI stops gathering tracing information for selected metrics.

Function

Stop Tracing stops gathering/saving information about the selected metrics.

To launch Stop Tracing tool

1. From the HPOM console, select Tools → SPI for Oracle AS → OASSPI Admin .
2. Double-click Stop Tracing .
3. Select the managed nodes on which you want to stop the tracing.
4. Select Launch . The Tool Status window opens.
5. In the Launched Tools field, check the status of the tool for each node:
   - Started/Starting - The tool is running.
   - Succeeded - Tracing successfully stopped for Oracle AS SPI on the managed node. Select the node in the Launched Tools field and scroll to the end of the Tool Output field. The message "Tracing is OFF." appears.
   - Failed - The tool did not succeed. For more information about the problem select the node in the Launched Tools field and scroll through the Tool Output field.
6. Select Close to close the Tool Status window.

Verify

You can run the Verify tool to check whether the Oracle AS SPI is installed properly on the server and managed nodes.

Function

Verify tool performs the following functions:

- on UNIX managed nodes:
  - Checks that the following instrumentation files exist:
    - $OPCAGT_CMD_DIR/spi_oas.sh
    - $OPCAGT_CMD_DIR/spi_oas.xml
    - $OPCAGT_CMD_DIR/spi_oas_runSHSCollector.sh
    - $OPCAGT_CMD_DIR/wasspi_oas_DiscReg.txt
    - $OPCAGT_CMD_DIR/wasspi_oas_admin
    - $OPCAGT_CMD_DIR/wasspi_oas_discovery.jar
    - $OPCAGT_CMD_DIR/wasspi_oas_discovery.pl
    - $OPCAGT_CMD_DIR/wasspi_oas_osinfo
    - $OPCAGT_CMD_DIR/wasspi_oas_ovtrc3.jar
    - $OPCAGT_CMD_DIR/wasspi_oas_processLib.pl
    - $OPCAGT_CMD_DIR/wasspi_oas_shs_agent_install.xml
    - $OPCAGT_CMD_DIR/wasspi_oas_shs_input.xml
    - $OPCAGT_CMD_DIR/wasspi_oas_shs_server_install.xml
    - $OPCAGT_CMD_DIR/wasspi_oas_shs_task.xml
    - $OPCAGT_CMD_DIR/wasspi_oas_spiapps
    - $OPCAGT_CMD_DIR/wasspi_oas_traceConfig.xml
    - $OPCAGT_CMD_DIR/wasspi_oas_platdef.pm
    - $OPCAGT_CMD_DIR/wasspi_oas_platdef.prop
    - $OPCAGT_CMD_DIR/wasspi_oas_xalan.jar
    - $OPCAGT_CMD_DIR/wasspi_oas_xerces.jar
    - $OPCAGT_MON_DIR/wasspi_oas_XMLParser.pm

- $OPCAGT_MON_DIR/wasspi_oas_ca
- $OPCAGT_MON_DIR/wasspi_oas_cat
- $OPCAGT_MON_DIR/wasspi_oas_config
- $OPCAGT_MON_DIR/wasspi_oas_configBasic
- $OPCAGT_MON_DIR/wasspi_oas_configCheck
- $OPCAGT_MON_DIR/wasspi_oas_configLogs
- $OPCAGT_MON_DIR/wasspi_oas_configPerf
- $OPCAGT_MON_DIR/wasspi_oas_files
- $OPCAGT_MON_DIR/wasspi_oas_getPlatdef
- $OPCAGT_MON_DIR/wasspi_oas_le
- $OPCAGT_MON_DIR/wasspi_oas_lib.pl
- $OPCAGT_MON_DIR/wasspi_oas_logdata
- $OPCAGT_MON_DIR/wasspi_oas_makePlatdef
- $OPCAGT_MON_DIR/wasspi_oas_opcagt
- $OPCAGT_MON_DIR/wasspi_oas_perl
- $OPCAGT_MON_DIR/wasspi_oas_trace.pm
- $OPCAGT_MON_DIR/wasspi_oas_udmgraphs
- $SPI_CFG_DIR/CastorMapping.dtd
- $SPI_CFG_DIR/Collector.properties
- $SPI_CFG_DIR/CollectorClientOVTrace.tcf.on
- $SPI_CFG_DIR/java.policy
- $SPI_CFG_DIR/JMXActions.dtd
- $SPI_CFG_DIR/JMXActions-sample.xml
- $SPI_CFG_DIR/JMXCommon.dtd
- $SPI_CFG_DIR/JMXConnector.properties
- $SPI_CFG_DIR/logSetup
- $SPI_CFG_DIR/MapLogFilesToServer
- $SPI_CFG_DIR/MBeanInfo.dtd

- $SPI_CFG_DIR/MBeanMapping.xml
- $SPI_CFG_DIR/MBeanReports.dtd
- $SPI_CFG_DIR/MBeanReports.xsl
- $SPI_CFG_DIR/MetricCommon.dtd
- $SPI_CFG_DIR/MetricDefinitions.dtd
- $SPI_CFG_DIR/MetricDefinitions.xml
- $SPI_CFG_DIR/MetricMap
- $SPI_CFG_DIR/OVTrace.tcf.on
- $SPI_CFG_DIR/perfSetup
- $SPI_CFG_DIR/ReportsHeader.xsl
- $SPI_CFG_DIR/ReportsUtil.xsl
- $SPI_CFG_DIR/simpleSD.xml
- $SPI_SITE_CFG_FILE
- $SPI_CFG_DIR/SPIConfig
- $SPI_CFG_DIR/SPIConfigLogFiles
- $SPI_CFG_DIR/SPIVersion
- $SPI_CFG_DIR/sTrace.xml.off
- $SPI_CFG_DIR/sTrace.xml.on
- $SPI_CFG_DIR/version
- $SPI_CFG_DIR/oas_UDMMetrics-sample.xml
- $SPI_CFG_DIR/OracleConnector.properties
- $SPI_CFG_DIR/wasspi_oas_traceConfig.xml
- $SPI_LIB_DIR/GraphSP.xsl
- $SPI_LIB_DIR/JSpiCola.jar
- $SPI_LIB_DIR/MetricMap.xsl
- $SPI_LIB_DIR/castor.jar
- $SPI_LIB_DIR/xalan.jar
- $SPI_LIB_DIR/xerces.jar
- $SPI_LIB_DIR/saxnavi.jar

- $SPI_LIB_DIR/jmxri.jar
- $SPI_LIB_DIR/jmxtools.jar
- $OPCAGT_MON_DIR/ddfcomp
- $OPCAGT_MON_DIR/ddfcomp_coda
- $OPCAGT_MON_DIR/ddflog
- $OPCAGT_MON_DIR/ddflog_coda
- $OPCAGT_MON_DIR/ddfutil

- Checks that the version of the following files matches the current SPI version:
  - $OPCAGT_CMD_DIR/wasspi_oas_admin
  - $OPCAGT_CMD_DIR/wasspi_oas_discovery.pl
  - $OPCAGT_CMD_DIR/wasspi_oas_osinfo
  - $OPCAGT_CMD_DIR/wasspi_oas_spiapps
  - $OPCAGT_MON_DIR/wasspi_oas_ca
  - $OPCAGT_MON_DIR/wasspi_oas_config
  - $OPCAGT_MON_DIR/wasspi_oas_configBasic
  - $OPCAGT_MON_DIR/wasspi_oas_configCheck
  - $OPCAGT_MON_DIR/wasspi_oas_configLogs
  - $OPCAGT_MON_DIR/wasspi_oas_configPerf
  - $OPCAGT_MON_DIR/wasspi_oas_files
  - $OPCAGT_MON_DIR/wasspi_oas_getPlatdef
  - $OPCAGT_MON_DIR/wasspi_oas_le
  - $OPCAGT_MON_DIR/wasspi_oas_lib.pl
  - $OPCAGT_MON_DIR/wasspi_oas_logdata
  - $OPCAGT_MON_DIR/wasspi_oas_trace.pm
  - $OPCAGT_MON_DIR/wasspi_oas_udmgraphs
  - $SPI_CFG_DIR/MBeanReports.dtd
  - =$SPI_CFG_DIR/MBeanReports.xsl
  - $SPI_CFG_DIR/MetricDefinitions.dtd
  - $SPI_CFG_DIR/MetricDefinitions.xml

- $SPI_CFG_DIR/ReportsHeader.xsl
- $SPI_CFG_DIR/ReportsUtil.xsl
- $SPI_CFG_DIR/SPIConfig

- on Windows managed nodes:
  - Checks that the following instrumentation files exist:
    - $OPCAGT_CMD_DIR/spi_oas.cmd
    - $OPCAGT_CMD_DIR/spi_oas.xml
    - $OPCAGT_CMD_DIR/spi_oas_runSHSCollector.cmd
    - $OPCAGT_CMD_DIR/wasspi_oas_DiscReg.txt
    - $OPCAGT_CMD_DIR/wasspi_oas_admin
    - $OPCAGT_CMD_DIR/wasspi_oas_discovery.pl
    - $OPCAGT_CMD_DIR/wasspi_oas_ovtrc3.jar
    - $OPCAGT_CMD_DIR/wasspi_oas_shs_agent_install.xml
    - $OPCAGT_CMD_DIR/wasspi_oas_shs_input.xml
    - $OPCAGT_CMD_DIR/wasspi_oas_shs_server_install.xml
    - $OPCAGT_CMD_DIR/wasspi_oas_shs_task.xml
    - $OPCAGT_CMD_DIR/wasspi_oas_spiapps
    - $OPCAGT_CMD_DIR/wasspi_oas_traceConfig.xml
    - $OPCAGT_CMD_DIR/wasspi_oas_platdef.pm
    - $OPCAGT_CMD_DIR/wasspi_oas_platdef.prop
    - $OPCAGT_CMD_DIR/wasspi_oas_platdef.bat
    - $OPCAGT_CMD_DIR/wasspi_oas_util.vbs
    - $OPCAGT_CMD_DIR/wasspi_oas_xalan.jar
    - $OPCAGT_CMD_DIR/wasspi_oas_xerces.jar
    - $OPCAGT_MON_DIR/wasspi_oas_XMLParser.pm
    - $OPCAGT_MON_DIR/wasspi_oas_ca
    - $OPCAGT_MON_DIR/wasspi_oas_cat
    - $OPCAGT_MON_DIR/wasspi_oas_config.cmd
    - $OPCAGT_MON_DIR/wasspi_oas_configBasic

- $OPCAGT_MON_DIR/wasspi_oas_configCheck
- $OPCAGT_MON_DIR/wasspi_oas_configLogs
- $OPCAGT_MON_DIR/wasspi_oas_configPerf
- $OPCAGT_MON_DIR/wasspi_oas_files
- $OPCAGT_MON_DIR/wasspi_oas_getIPAddress.vbs
- $OPCAGT_MON_DIR/wasspi_oas_getPlatdef
- $OPCAGT_MON_DIR/wasspi_oas_le
- $OPCAGT_MON_DIR/wasspi_oas_lib.pl
- $OPCAGT_MON_DIR/wasspi_oas_logdata
- $OPCAGT_MON_DIR/wasspi_oas_makePlatdef
- $OPCAGT_MON_DIR/wasspi_oas_opcagt.cmd
- $OPCAGT_MON_DIR/wasspi_oas_perl.cmd
- $OPCAGT_MON_DIR/wasspi_oas_readRegistryKeys.vbs
- $OPCAGT_MON_DIR/wasspi_oas_trace.pm
- $OPCAGT_MON_DIR/wasspi_oas_udmgraphs
- $SPI_CFG_DIR/CastorMapping.dtd
- $SPI_CFG_DIR/Collector.properties
- $SPI_CFG_DIR/CollectorClientOVTrace.tcf.on
- $SPI_CFG_DIR/java.policy
- $SPI_CFG_DIR/JMXActions.dtd
- $SPI_CFG_DIR/JMXActions-sample.xml
- $SPI_CFG_DIR/JMXCommon.dtd
- $SPI_CFG_DIR/JMXConnector.properties
- $SPI_CFG_DIR/logSetup
- $SPI_CFG_DIR/MapLogFilesToServer
- $SPI_CFG_DIR/MBeanInfo.dtd
- $SPI_CFG_DIR/MBeanMapping.xml
- $SPI_CFG_DIR/MBeanReports.dtd
- $SPI_CFG_DIR/MBeanReports.xsl

- $SPI_CFG_DIR/MetricCommon.dtd
- $SPI_CFG_DIR/MetricDefinitions.dtd
- $SPI_CFG_DIR/MetricDefinitions.xml
- $SPI_CFG_DIR/MetricMap
- $SPI_CFG_DIR/OVTrace.tcf.on
- $SPI_CFG_DIR/perfSetup
- $SPI_CFG_DIR/ReportsHeader.xsl
- $SPI_CFG_DIR/ReportsUtil.xsl
- $SPI_CFG_DIR/simpleSD.xml
- $SPI_SITE_CFG_FILE
- $SPI_CFG_DIR/SPIConfig
- $SPI_CFG_DIR/SPIConfigLogFiles
- $SPI_CFG_DIR/SPIVersion
- $SPI_CFG_DIR/sTrace.xml.off
- $SPI_CFG_DIR/sTrace.xml.on
- $SPI_CFG_DIR/version
- $SPI_CFG_DIR/oas_UDMMetrics-sample.xml
- $SPI_CFG_DIR/OracleConnector.properties
- $SPI_CFG_DIR/wasspi_oas_traceConfig.xml
- $SPI_LIB_DIR/GraphSP.xsl
- $SPI_LIB_DIR/JSpiCola.jar
- $SPI_LIB_DIR/MetricMap.xsl
- $SPI_LIB_DIR/castor.jar
- $SPI_LIB_DIR/xalan.jar
- $SPI_LIB_DIR/xerces.jar
- $SPI_LIB_DIR/saxnavi.jar
- $SPI_LIB_DIR/jmxri.jar
- $SPI_LIB_DIR/jmxtools.jar
- $OPCAGT_MON_DIR/ddfcomp.exe

- $OPCAGT_MON_DIR/ddfcomp_coda.exe
- $OPCAGT_MON_DIR/ddflog.exe
- $OPCAGT_MON_DIR/ddflog_coda.exe
- $OPCAGT_MON_DIR/ddfutil.exe

- Checks that the version of the following files matches the current SPI version:
  - $OPCAGT_CMD_DIR/wasspi_oas_admin
  - $OPCAGT_CMD_DIR/wasspi_oas_discovery.pl
  - $OPCAGT_CMD_DIR/wasspi_oas_spiapps
  - $OPCAGT_CMD_DIR/wasspi_oas_util.vbs
  - $OPCAGT_MON_DIR/wasspi_oas_ca
  - $OPCAGT_MON_DIR/wasspi_oas_config.cmd
  - $OPCAGT_MON_DIR/wasspi_oas_configBasic
  - $OPCAGT_MON_DIR/wasspi_oas_configCheck
  - $OPCAGT_MON_DIR/wasspi_oas_configLogs
  - $OPCAGT_MON_DIR/wasspi_oas_configPerf
  - $OPCAGT_MON_DIR/wasspi_oas_files
  - $OPCAGT_MON_DIR/wasspi_oas_getIPAddress.vbs
  - $OPCAGT_MON_DIR/wasspi_oas_getPlatdef
  - $OPCAGT_MON_DIR/wasspi_oas_le
  - $OPCAGT_MON_DIR/wasspi_oas_lib.pl
  - $OPCAGT_MON_DIR/wasspi_oas_logdata
  - $OPCAGT_MON_DIR/wasspi_oas_readRegistryKeys.vbs
  - $OPCAGT_MON_DIR/wasspi_oas_trace.pm
  - $OPCAGT_MON_DIR/wasspi_oas_udmgraphs
  - $SPI_CFG_DIR/MBeanReports.dtd
  - =$SPI_CFG_DIR/MBeanReports.xsl
  - $SPI_CFG_DIR/MetricDefinitions.dtd
  - $SPI_CFG_DIR/MetricDefinitions.xml
  - $SPI_CFG_DIR/ReportsHeader.xsl

- $SPI_CFG_DIR/ReportsUtil.xsl
- $SPI_CFG_DIR/SPIConfig

NOTE:
Before you launch the Verify tool ensure that you have installed the latest version of Self-Healing Service (SHS) component from the SPI DVD.

To launch Verify tool

a. From the HPOM console, select Tools → SPI for Oracle AS → OASSPI Admin .
b. Double-click Verify .
c. Select the managed nodes on which you want to verify the Oracle AS SPI installation.
d. Click Launch . The Tool Status window opens.
e. In the Launched Tools field, check the status of the tool for each node:
   - Started/Starting - The tool is running.
   - Succeeded - Oracle AS SPI is installed properly on the managed node. Select the node in the Launched Tools field and scroll to the end of the Tool Output field. The message "Installation is clean" appears.
   - Failed - The tool did not succeed. For more information about the problem select the node in the Launched Tools field and scroll through the Tool Output field.
f. Click Close to close the Tool Status window.

View Error Log

You can use the View Error Log tool to view the contents of the Oracle AS SPI error log file.

Function

View Error Log displays the contents of the Oracle AS SPI error log file *<OvAgentDir>* /wasspi/oas/log/errorlog where <*AgentDir*> typically is:

- On UNIX managed nodes: /var/opt/OV or /var/lpp/OV
- On Windows Managed Nodes: \Program Files\HP\HP BTO Software\ or C:\Program Files\HP OpenView\Installed Packages\{790C06B4-844E-11D2-972B-080009EF8C2A}

To launch View Error Log tool

1. From the HPOM console, select Tools → SPI for Oracle AS → OASSPI Admin .
2. Double-click View Error Log .
3. Select the managed nodes on which you want to view the Oracle AS SPI error log file.
4. Click Launch . The Tool Status window opens.
5. In the Launched Tools field, check the status of the tool for each node:
   - Started/Starting - The tool is running.
   - Succeeded - You can view the Oracle AS SPI error log file. Select the node in the Launched Tools field and scroll through the Tool Output field to view the error log file.
   - Failed - The tool did not succeed. For more information about the problem select the node in the Launched Tools field and scroll through the Tool Output field.
6. Click Close to close the Tool Status window.

Oracle AS SPI tools group

The tools in the Oracle AS SPI group provide you access to the functions of Oracle Application Server from the HPOM console.

For a detailed description of the tools, click the tool name in the table below.

Tool	Description
Launch Oracle AS Console	Launches the Oracle Application Server Admin Console in a web browser.
Start Oracle AS	Starts the Oracle Application server (requires setup).
Stop Oracle AS	Stops the Oracle Application server (requires setup).
View OAS Logs	Allows you to view the Oracle Application server log files.
View Status	Does an interactive status check of the Oracle Application server.

Related Topics:

- OASSPI Reports tools group
- OASSPI Reports (JMX) tools group
- OASSPI Admin tools group

Launch Oracle AS Console

By running the Launch Oracle AS Console tool you can bring up the Oracle Application Server Control Console.

Required Setup

Install OracleAS Enterprise Manager on the managed node to launch the Oracle Enterprise Manager Database Control.

Function

Launch Oracle AS Console tool launches the following:

- Oracle Application Server Admin Console: Launch Oracle AS Console brings up the Oracle Application Server Admin Console in a web browser for a single application server or all application servers on the selected node.

To launch Launch Oracle AS Console tool

1. From the HPOM console, select Tools → SPI for Oracle AS → OracleAS SPI .
2. Double-click Launch Oracle AS Console .
3. Select the managed nodes to configure.
4. Click Launch . The Oracle AS SPI Admin Console opens in a web browser.
5. Select one or more application servers that you want to start.
6. Click Cancel to quit the tool.

Related Topics:
- Start OracleAS
- Stop OracleAS
- View OAS Logs
- View Status
- OASSPI Reports tools group
- OASSPI Admin tools group
- OASSPI Reports (JMX) tools group

Start Oracle AS

You can start one or more instances of Oracle Application Servers from the HP Operations Manager (HPOM) console by running the Start OracleAS tool, without logging in to each individual Oracle Application Server Control Consoles.

Function

Start OracleAS tool allows you to start one or all application servers on the selected managed nodes.

To launch Start OracleAS tool

1. From the HPOM console, select Tools → SPI for Oracle AS → Oracle AS SPI .
2. Double-click Start Oracle AS .
3. Select the managed nodes on which you want to start Oracle Application Server.
4. Click Launch . The Console Status window and then the Oracle AS SPI Admin Console open.
5. From the Oracle AS SPI Admin Console, select one or more application servers to start.
6. Click OK .
7. From the Console Status window in the Launched Tool field, check the status of the tool for each node:
   - Started/Starting - The tool is running.
   - Finished - The process is complete. For more information scroll through the Tool Output field.
8. Click Close to close the Console Status window.

Related Topics:
- Launch Oracle AS Console
- Stop OracleAS
- View OAS Logs
- View Status
- OASSPI Reports tools group
- OASSPI Admin tools group
- OASSPI Reports (JMX) tools group

Stop Oracle AS

You can stop one or more application servers on the selected managed nodes without logging in to individual Oracle Application Server Control Consoles.

Function

Stop Oracle AS tool allows you to stop one or all application servers on the selected managed nodes.

To launch Stop Oracle AS tool

1. From the HPOM console, select Tools → SPI for Oracle AS → Oracle AS SPI .
2. Double-click Stop Oracle AS .
3. Select the managed nodes on which you want to stop Oracle Application Server
4. Click Launch . The Console Status window and then the Oracle AS SPI Admin Console open.
5. From the Oracle AS SPI Admin Console, select one or more application servers to stop.
6. Click OK .
7. From the Console Status window in the Launched Tool field, check the status of the tool for each node:
   - Started/Starting - The tool is running.
   - Finished - The process is complete. For more information scroll through the Tool Output field.
8. Click Close to close the Console Status window.

Related Topics:
- Launch Oracle AS Console
- Start OracleAS
- View OAS Logs
- View Status
- OASSPI Reports tools group
- OASSPI Admin tools group
- OASSPI Reports (JMX) tools group

View OAS Logs

You can use View OAS Logs tool to view Oracle Application Server log files without logging in to the system on which the Oracle Application Server is running.

Function

View OAS Logs tool performs the following functions:

- If you run View OAS Logs without a parameter, the tool displays a numbered list of available log files for the selected managed node.
- If you run View OAS Logs with an invalid parameter (a non numeric value or a number that does not correspond to the list of available log files), the tool displays a numbered list of available log files for the selected managed node.
- If you run View OAS Logs with an valid parameter, the tool displays the contents of the corresponding log file for the selected managed node.

You can enter only one numeric value in the parameter field and view the log file corresponding to that number.
Select one log file to view per managed node every time you launch the View OAS Logs tool.

If you keep the Application Status window open and relaunch the tool, the output in the Application Status window accumulates.

To launch View OAS Logs tool

1. From the HPOM console, select Tools → SPI for Oracle AS → Oracle AS SPI .
2. Double-click View OAS Logs .
3. Select the managed nodes for which you want to view the Oracle Application Server log file.
4. Click Launch . The Edit Parameters window opens. If you know the number of the log file you want to view, enter it into the Parameters field. Otherwise, leave this field blank. The tool will list all log files available for viewing.
5. Click Launch . The Tool Status window opens.
6. In the Launched Tools field, check the status of the tool for each node:

    - Started/Starting - The tool is running.
    - Succeeded - A list of log files available for viewing appears. Select the node in the Launched Tools field and scroll through the Tool Output field to view the list of available log files.

- Failed - The tool did not succeed. For more information about the problem select the node in the Launched Tools field and scroll through the Tool Output field.

Do not close the Tool Status window yet.

7. Double-click View OAS Logs .
8. Select the managed nodes for which you want to view the Oracle Application Server log file.
9. Click Launch . The Edit Parameters window opens.
10. In the Parameters box, enter the number of the log file you want to view. Only one log file can be selected.

    NOTE:
    If you do not remember the number of the log file, go to the Tool Status window, select the node in the Launched Tools field, scroll through the Tool Output field to view the list of available log files, and enter the number of the log file you want to view in the Parameters box.

11. Click Launch .
12. In the Tool Status window, select the node for which you want to view the selected log file and scroll through the Tool Output field to view the log file.
13. Repeat steps 7 - 12 for each log file that you want to view.
14. After viewing the log files, Click Close to close the Tool Status window.

Related Topics:

- Launch Oracle AS Console
- Start OracleAS
- Stop OracleAS
- View Status
- OASSPI Reports tools group
- OASSPI Admin tools group
- OASSPI Reports (JMX) tools group

View Status

The View Status tool displays a status report of the Oracle Application Servers running on a selected managed node. You can use this tool to check the status of each application server running on the node.

Function

The View Status tool displays the following information for each application server on the selected managed nodes:

Server Name	The name of the Oracle Application Server.
Server State	The status of Oracle Application Server.
Start Date	The date on which the Oracle Application Server was started.
Admin Server State	The status of the Oracle Application Server Administrative Console.
Admin Server Start Date	The date on which the Oracle Application Server Administrative Console was started.

If the Oracle AS SPI has been configured not to collect metrics for Oracle Application Server, the following message appears:

`Collection is temporarily OFF for <server_name >.`

To launch View OAS Logs tool

1. From the HPOM console, select Tools → SPI for Oracle AS → Oracle AS SPI .
2. Double-click View Status .
3. Select the managed nodes for which you want to view the status of the OC4J/OHS servers.
4. Click Launch . The Tool Status window displays.
5. In the Launched Tools field, check the Status of the tool for each node:
   - Started/Starting - The tool is running.
   - Succeeded - A status report is available for each instance of the Oracle Application Server on the managed node. Select the node in the Launched Tools field and scroll through the Tool Output field.
   - Failed - The tool did not succeed. For more information about the problem, select the node in the Launched Tools field and scroll through the Tool Output field .
6. Click Close to close the Tool Status window.

R elated Topics:

- Launch Oracle AS Console
- Start OracleAS
- Stop OracleAS
- View OAS Logs
- OASSPI Reports tools group
- OASSPI Admin tools group
- OASSPI Reports (JMX) tools group

OASSPI Reports tools group

OASSPI reports show information on Oracle Application Server conditions in the server. Each report shows the condition of all configured server instances on the managed node in relation to the metric.

To manually generate a report, do the following:

1. From the HPOM console, select Tools → SPI for Oracle AS → OASSPI Reports .
2. Double-click a report.
3. Select the node for which you want to generate the report.
4. Select Launch .

Oracle AS SPI Reports Generated from Alarms

An Oracle AS SPI report can also be generated by an alarm condition. The report is *automatically* generated in such a situation. Reports generated from alarms are context sensitive and relate only to a single server on the managed node. The alarm condition generates the information in the report. To view the report right-click the message and select Annotations .

When you configure your message browser to display the *A* column, an "S" under the *A* column (adjacent to the message) indicates that the report is generated *successfully* and is waiting in the Annotations of the message.

Oracle AS SPI Metric Reports Description

Click the metric name in the table below to get detailed description of the metric.

Name/Associated Metric	Description
C005_JVMMemUtilPct	Percentage of heap space used in the JVM.
C010_CPUUtilPct	Percentage of CPU time used by the OHS server
C011_MemoryUtilPct	Percentage of the physical memory used over the collection interval
C100_HTTPSvrActConn	Number of active HTTP connections
C220_EJBClActThreads	Number of client active threads accessing the actual implementation of an EJB method
C221_EJBClAvgExecTime	Average time spent inside the actual implementation of a specific EJB method (msec)
C222_EJBClCallsPrcRt	Total number of requests processed by the actual implementation of methods for each EJB over the collection interval (per minute)
C230_EJBWrpActThrds	Number of active threads accessing the automatically generated wrapper of an EJB method
C231_EJBWrpAvExecTim	Average time spent inside the automatically generated wrapper of a specific EJB method (msecs)
C232_EJBWrpCallPrcRt	Total number of requests processed by the automatically generated wrapper of methods for each EJB over the collection interval (per minute)
C240_SrvltAvgExecTim	Average time spent on the servlet's service () call (msec) over the collection interval
C242_SrvltActThreads	Current number of threads servicing the servlet
C245_JSPAvgExecTim	Average time to serve a JSP (msec) over the collection interval
C247_JSPActRequests	Current number of active requests for the JSP
C050_JMSConnCreated	Frequency of the JMS connections created over the collection interval
C251_JMSTotalMsgCt	Total number of messages contained in the message store
C260_JDBCacheMissPct	Average time spent servicing web modules per request processed over the collection interval (msec)
C280_WebCntxtAvRqPrc	Average time spent servicing web modules per request processed over the collection interval (msec)
C281_WebCntxtActSess	Current number of active sessions for a web module within an application

Related Topics:

- OASSPI Admin tools group
- Oracle AS SPI tools group

- OASSPI Reports (JMX) group

Metric C005_JVMMemUtilPct

Policy Name	OASSPI_0005
Metric Name	C005_JVMMemUtilPct
Metric Type	Alarming, Graphing
Description	Percentage of heap space used in the JVM
Available OAS Version	All
Severity: Condition with Threshold	Critical: OASSPI-0005.1, threshold 98 Major: OASSPI-0005.2, threshold 95
Collection Interval	5 m
Threshold type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0005.1: % of heap space used (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>] OASSPI-0005.2: % of heap space used (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>]
Instruction Text	Probable cause : The JVM is running out of available heap space. The JVM heap size may be set too low for the client load. Potential impact : The JVM heap size determines how often and how long the VM spends collecting garbage (de-allocating unused Java objects). The Java heap is where the objects of a Java program live. When an object can no longer be reached from any pointer in the running program, the object is garbage. Garbage collection affects performance because JVM work cannot proceed during full garbage collection. An acceptable rate for garbage collection is application specific and should be adjusted after analyzing the actual time and frequency of garbage collections. The goal of tuning your heap size is to minimize the time that you spend doing garbage collection while maximizing the number of clients that you can handle at a

	given time. If you set a large heap size, full garbage collection is slower, but it occurs less frequently. For a smaller heap size, full garbage collection is faster, but occurs more frequently. Suggested action : While the amount of heap size required varies with each application and the amount of available memory, for most OC4J server applications, a minimum heap size of 256MB is advised. If you have additional memory available, a heap size of 512MB or larger is preferred. To change the heap size allocated to the OC4J processes in an OC4J instance, use the procedures outlined in "Using Application Server Control Console to Change the JVM command Line Options" in the OAS Performance Guide to set the following Java options: `-Xms<size>m -Xmx<size>m` where <*size*> is the desired Java heap size, in megabytes. For additional details, see the OAS Performance Guide, Setting the JVM Heap Size for OC4J Proceses.
Report Type	Automatic
Area	JVM (OC4J)

Metric C010_CPUUtilPct

Policy Name	OASSPI_0010
Metric Name	C010_CPUUtilPct
Metric Type	Alarming, Graphing, Reporting
Description	CPU Time Utilization - Percent
Available OAS Version	All
Severity: Condition with Threshold	Critical: OASSPI-0010.1, threshold 98 for 20 minutes Major: OASSPI-0010.2, threshold 95 for 20 minutes
Collection Interval	5 m
Threshold type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0010.x: % of CPU time used (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>]
Instruction Text	Probable Cause : *For the Oracle HTTP Server (OHS) Component* The OHS process is saturating the amount of CPU being used on this node. This typically means that there is a need to increase CPU by moving to a larger node or by distributing the load to another OHS running on a second node. Distributing load to another OHS can be accomplished by deploying Oracle Web Cache in front of the OHS's. See the Oracle Application Server Enterprise Deployment Guide for more information on setting up different topologies. *For the OC4J Component* The OC4J JVM's are saturating the amount of CPU being used on this node. This typically means that there is a need to increase CPU power by moving to a larger node

	or by distributing the load to more OC4J JVM's running on another node. Distributing load can be done by creating another OC4J instance on a new node and including it in an OracleAS cluster where the original OC4J instance is running. The one or more OHS's running will then load balance requests across the OC4J's running on both nodes. See the Distributed Configuration Management Administrator's Guide and the Oracle Application Server High Availability Guide for more information. Potential Impact : N/A Suggested Action : N/A
Report Type	Automatic
Area	Process

Metric C011_MemoryUtilPct

Policy Name	OASSPI_0011
Metric Name	C011_MemoryUtilPct
Metric Type	Alarming, Graphing, Reporting
Description	Percentage of the physical memory used over the collection interval
Available OAS Version	All
Severity: Condition with Threshold	Critical: OASSPI-0011.1, threshold 98 for 20 minutes Major: OASSPI-0011.2, threshold 95 for 20 minutes
Collection Interval	5 m
Threshold type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0011.x: % of physical memory used (<$VALUE>%) too high (>=<$THRESHOLD>%)
Instruction Text	Oracle HTTP Server (OHS) Component The OHS process is saturating the amount of memory being used on this node. This typically means that there is a need to increase memory on this node or distribute the load to another OHS running on a second node. Distributing load can be accomplished by deploying Oracle Web Cache in front of the OHS's. See the Oracle Application Server Enterprise Deployment Guide for more information on setting up different topologies. Another way to possibly reduce the memory footprint of OHS is to unload any Apache modules you are not using. The Perl and PHP modules may be candidates for unloading if you are not using them. See the Oracle HTTP Server Administrator's Guide and the Oracle Application Server Performance Guide for more information. For OC4J Component The OC4J JVM's are saturating the amount of memory being used on this node. This typically means that there is a need to increase memory on this node or distribute the

	load to more OC4J JVM's running on a second node. Distributing load can be accomplished by creating another OC4J instance on a new node and including it in an OracleAS cluster where the original OC4J instance is running. The one or more OHS's running will then load balance requests across the OC4J's running on both nodes. See the Distributed Configuration Management Administrator's Guide and the Oracle Application Server High Availability Guide for more information.
Report Type	Automatic
Area	Process

Metric C100_HTTPSvrActConn

Policy Name	OASSPI_0100
Metric Name	C100_HTTPSvrActConn
Metric Type	Alarming, Reporting, Graphing
Description	Number of active HTTP connections
Available OAS Version	All
Severity: Condition with Threshold	Warning: OASSPI-0100.1, threshold 100
Collection Interval	15 m
Threshold type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0100.1: Number of active HTTP connections (<$VALUE>) too high (>= <$THRESHOLD>) [Policy: <$NAME>]
Instruction Text	Probable Cause : This metric measures the number of connections to the Oracle HTTP Server currently open. The server is approaching the maximum allowable connections configured for this OHS. If your system can support the increased load you can increase the maximum allowable connections using the MaxClients directive which is configured in the OHS configuration file, httpd.conf. See “Configuring the MaxClients Directive” in the Oracle Application Server Performance Guide for more information. The Oracle HTTP Administrator's Guide should also be reviewed. Potential Impact : N/A Suggested Action : N/A
Report Type	Automatic
Area	HTTP (OHS)

Metric C220_EJBClThreads

Policy Name	OASSPI_220
Metric Name	C220_EJBClActThreads
Metric Type	Alarming, Reporting
Description	Number of client active threads accessing the actual implementation of an EJB method.
Available OAS Version	All
Severity: Condition with Threshold	Warning: OASSPI-0220.1, threshold 100
Collection Interval	1 h
Threshold type	Maximum
Message Group	OracleAS
Message Text	OASSPI-220.1: Number of EJB method client threads (<$VALUE>) too high (>= <$THRESHOLD>) [Policy: <$NAME>]
Instruction Text	Probable Cause : The specific EJB method within an application that caused the violation can be found in the object field of the message. Refer to the Oracle Application Server Performance Guide for information on tuning the performance of the application server. Potential Impact : N/A Suggested Action : N/A
Report Type	Automatic
Area	EJB (OC4J)

Metric C221_EJBClAvgExecTim

Policy Name	OASSPI_0221
Metric Name	C221_EJBClAvgExecTim
Metric Type	Alarming, Reporting
Description	EJB Method Client Avg Execution Time - msecs
Available OAS Version	All
Severity: Condition with Threshold	Major: OASSPI-0221.1, threshold 5,000 Warning: OASSPI-0221.2, threshold 1,000
Collection Interval	1 h
Threshold type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0221.1: Average execution time for EJB method (<$VALUE> msecs) too high (>= <$THRESHOLD> msecs) [Policy: <$NAME>] OASSPI-0221.2: Average execution time for EJB method (<$VALUE> msecs) too high (>= <$THRESHOLD> msecs) [Policy: <$NAME>]
Instruction Text	Probable Cause : The specific EJB method within an application that caused the violation can be found in the object field of the message. This metric monitors the response time of specific methods. Refer to the Oracle Application Server Performance Guide for information on tuning the performance of the application server. Potential Impact : N/A Suggested Action : N/A
Report Type	Automatic
Area	EJB (OC4J)

Metric C222_EJBClCallsPrcRt

Policy Name	OASSPI_0222
Metric Name	C222_EJBClCallsPrcRt
Metric Type	Alarming, Reporting
Description	Total number of requests (per minute) processed by the actual implementation of methods for each EJB over the collection interval
Available OAS Version	All
Severity: Condition with Threshold	Warning: OASSPI-0222.1, threshold 10,000
Collection Interval	1 h
Threshold type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0222.1: Processing rate for EJB method calls (<$VALUE> per minute) too high (>= <$THRESHOLD> per minute) [Policy: <$NAME>]
Instruction Text	Probable Cause : The specific EJB method within an application that caused the violation can be found in the object field of the message. This metric monitors throughput of an application. Refer to the Oracle Application Server Performance Guide for information on tuning the performance of the application server. Potential Impact : N/A Suggested Action : N/A
Report Type	Automatic
Area	EJB (OC4J)

Metric C230_EJBWrapActThrds

Policy Name	OASSPI_0230
Metric Name	C230_EJBWrapActThrds
Metric Type	Alarming, Reporting
Description	Number of active threads accessing the automatically generated wrapper of an EJB method.
Available OAS Version	All
Severity: Condition with Threshold	Warning: OASSPI-0230.1, threshold 100
Collection Interval	1 h
Threshold type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0230.1: Number of EJB wrapper method threads (<$VALUE>) too high (>= <$THRESHOLD>) [Policy: <$NAME>]
Instruction Text	Probable Cause : The specific EJB method within an application that caused the violation can be found in the object field of the message. Refer to the Oracle Application Server Performance Guide for information on tuning the performance of the application server. Potential Impact : N/A Suggested Action : N/A
Report Type	Automatic
Area	EJB (OC4J)

Metric C231_EJBWrpAvExecTim

Policy Name	OASSPI_0231
Metric Name	C231_EJBWrpAvExecTim
Metric Type	Alarming, Reporting
Description	Average time (in milliseconds) spent inside the automatically generated wrapper of a specific EJB method.
Available OAS Version	All
Severity: Condition with Threshold	Major: OASSPI-0231.1, threshold 5,000 Warning: OASSPI-0231.2, threshold 1,000
Collection Interval	1 h
Threshold type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0231.1: Average execution time for EJB wrapper method (<$VALUE> msecs) too high (>= <$THRESHOLD> msecs) [Policy: <$NAME>] OASSPI-0231.2: Average execution time for EJB wrapper method (<$VALUE> msecs) too high (>= <$THRESHOLD> msecs) [Policy: <$NAME>]
Instruction Text	Probable Cause : The specific EJB method within an application that caused the violation can be found in the object field of the message. This metric monitors the response time of specific methods. Refer to the Oracle Application Server Performance Guide for information on tuning the performance of the application server. Potential Impact : N/A Suggested Action : N/A
Report Type	Automatic
Area	EJB (OC4J)

Metric C232_EJBWrpCallPrcRt

Policy Name	OASSPI_0232
Metric Name	C232_EJBWrpCallPrcRt
Metric Type	Alarming, Reporting
Description	Total number of requests processed (per minute) by the automatically generated wrapper of methods for each EJB over the collection interval.
Available OAS Version	All
Severity: Condition with Threshold	Warning: OASSPI-0232.2, threshold 10,000
Collection Interval	1 h
Threshold type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0232.1: Processing rate for EJB wrapper method calls (<$VALUE> per minute) too high (>= <$THRESHOLD> per minute) [Policy: <$NAME>]
Instruction Text	Probable Cause : The specific EJB method within an application that caused the violation can be found in the object field of the message. This metric monitors throughput of an application. Refer to the Oracle Application Server Performance Guide for information on tuning the performance of the application server. Potential Impact : N/A Suggested Action : N/A
Report Type	Automatic
Area	EJB (OC4J)

Metric C240_SrvltAvgExecTim

Policy Name	OASSPI_0240
Metric Name	C240_SrvltAvgExecTim
Metric Type	Alarming, Reporting
Description	Average time spend (in milliseconds) on the servlet's service() call over the collection interval.
Available OAS Version	All
Severity: Condition with Threshold	Major: OASSPI-0240.1, threshold 5,000 Warning: OASSPI-0240.2, threshold 1,000
Collection Interval	1 h
Threshold type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0240.1: Average execution time for the servlet (<$VALUE> msecs) too high (>= <$THRESHOLD> msecs) [Policy: <$NAME>] OASSPI-0240.2: Average execution time for the servlet (<$VALUE> msecs) too high (>= <$THRESHOLD> msecs) [Policy: <$NAME>]
Instruction Text	Probable Cause : The specific servlet within an application that caused the violation can be found in the object field of the message. This metric monitors the response time of specific servlets. Refer to the Oracle Application Server Performance Guide for information on tuning the performance of the application server. Potential Impact : N/A Suggested Action : N/A
Report Type	Automatic
Area	Servlet (OC4J)

Metric C242_SrvltActThreads

Policy Name	OASSPI_0242
Metric Name	C242_SrvltActThreads
Metric Type	Alarming, Reporting
Description	The number of threads currently servicing the servlet
Available OAS Version	All
Severity: Condition with Threshold	Warning: OASSPI-0242.1, threshold 10,000
Collection Interval	1 h
Threshold type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0242.1: Number of servlet active threads (<$VALUE>) too high (>= <$THRESHOLD>) [Policy: <$NAME>]
Instruction Text	Probable Cause : The specific servlet within an application that caused the violation can be found in the object field of the message. This metric monitors the load of specific servlets on the system. Refer to the Oracle Application Server Performance Guide for information on tuning the performance of the application server. Potential Impact : N/A Suggested Action : N/A
Report Type	Automatic
Area	Servlet (OC4J)

Metric C245_JSPAvgExecTime

Policy Name	OASSPI_0245
Metric Name	C245_JSPAvgExecTime
Metric Type	Alarming, Reporting
Description	Average time to serve a JSP (in milliseconds) over the collection interval.
Available OAS Version	10gR1
Severity: Condition with Threshold	Major: OASSPI-0245.1, threshold 5,000 Warning: OASSPI-0245.2, threshold 1,000
Collection Interval	1 h
Threshold type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0245.1: Average service time for the JSP (<$VALUE> msecs) too high (>= <$THRESHOLD> msecs) [Policy: <$NAME>] OASSPI-0245.2: Average service time for the JSP (<$VALUE> msecs) too high (>= <$THRESHOLD> msecs) [Policy: <$NAME>]
Instruction Text	Probable Cause : The specific JSP within an application that caused the violation can be found in the object field of the message. This metric monitors the response time of specific JSPs. Refer to the Oracle Application Server Performance Guide for information about tuning the performance of the application server. Potential Impact : N/A Suggested Action : N/A
Report Type	Automatic
Area	JSP (OC4J)

Metric C247_JSPActRequests

Policy Name	OASSPI_0247
Metric Name	C247_JSPActRequests
Metric Type	Alarming, Reporting
Description	The number of requests currently active for the JSP
Available OAS Version	All
Severity: Condition with Threshold	Warning: OASSPI-0247.1, threshold 10000
Collection Interval	1 h
Threshold type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0247.1: Number of JSP requests (<$VALUE>) too high (>= <$THRESHOLD>) [Policy: <$NAME>]
Instruction Text	Probable Cause : The specific JSP within an application that caused the violation can be found in the object field of the message. This metric monitors the load of specific JSPs on the system. Refer to the Oracle Application Server Performance Guide for information on tuning the performance of the application server. Potential Impact : N/A Suggested Action : N/A
Report Type	Automatic
Area	JSP (OC4J)

Metric C050_JMSConnCreated

Policy Name	OASSPI_0050
Metric Name	C050_JMSConnCreated
Metric Type	Alarming, Reporting, Graphing
Description	Frequency of the JMS connections created over the collection interval
Available OAS Version	All
Severity: Condition with Threshold	Critical: OASSPI-0050.1, threshold 98
Collection Interval	15 m
Threshold type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0050.1: Number of JMS connections created (<$VALUE>) too high (>= <$THRESHOLD>) [Policy: <$NAME>]
Instruction Text	Probable Cause : This metric monitors the load of JMS connection on the system. Refer to the Oracle Application Server Performance Guide for information on tuning the performance of the application server. Potential Impact : N/A Suggested Action : N/A
Report Type	Automatic
Area	JMS (OC4J)

Metric C251_JMSTotalMsgCt

Policy Name	OASSPI_0251
Metric Name	C251_JMSTotalMsgCt
Metric Type	Alarming, Reporting
Description	Total number of JMS messages contained in the message store
Available OAS Version	All
Severity: Condition with Threshold	Critical: OASSPI-0251.1, threshold 100
Collection Interval	15 m
Threshold type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0251.1: Number of JMS messages in the store (<$VALUE>) too high (>= <$THRESHOLD>) [Policy: <$NAME>]
Instruction Text	Probable Cause : The specific JMS that caused the violation can be found in the object field of the message. This metric monitors the backlog of the JMS message store. Refer to the Oracle Application Server Performance Guide for information about tuning the performance of the application server. Potential Impact : N/A Suggested Action : N/A
Report Type	Automatic
Area	JMS (OC4J)

Metric C260_JDBCacheMissPct

Policy Name	OASSPI_0260
Metric Name	C260_JDBCacheMissPct
Metric Type	Alarming, Reporting
Description	Percentage of failed cache connection requests
Available OAS Version	All
Severity: Condition with Threshold	Major: OASSPI-0260.1, threshold 90 Warning: OASSPI-0260.2, threshold 80
Collection Interval	5 m
Threshold type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0260.1: JDBC connection cache misses (<$VALUE>%) too high (>= <$THRESHOLD>%) [Policy: <$NAME>] OASSPI-0260.2: JDBC connection cache misses (<$VALUE>%) too high (>= <$THRESHOLD>%) [Policy: <$NAME>]
Instruction Text	Probable Cause : The specific JDBC connection cache instance can be found in the object field of the message. This alarm might indicate that the connection cache size should be increased. Refer to the Oracle Application Server Performance Guide for information about tuning the performance of the application server. Potential Impact : N/A Suggested Action : N/A
Report Type	Automatic
Area	JDBC (OC4J)

Metric C280_WebCntxtAvRqPrc

Policy Name	OASSPI_0280
Metric Name	C280_WebCntxtAvRqPrc
Metric Type	Alarming, Reporting, Graphing
Description	Average time spent (in milliseconds) servicing web modules per request processed over the collection interval
Available OAS Version	All
Severity: Condition with Threshold	Major: OASSPI-0280.1, threshold 5000 Warning: OASSPI-0280.2, threshold 1000
Collection Interval	15 m
Threshold type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0280.1: Average Web context request processing time (<$VALUE> msecs) too high (>= <$THRESHOLD> msecs) [Policy: <$NAME>] OASSPI-0280.2: Average Web context request processing time (<$VALUE> msecs) too high (>= <$THRESHOLD> msecs) [Policy: <$NAME>]
Instruction Text	Probable Cause : The specific Web module instance of an application can be found in the object field of the message. This metric monitors the response time of the Web module within each J2EE application. Refer to the Oracle Application Server Performance Guide for information on tuning the performance of the application server. Potential Impact : N/A Suggested Action : N/A
Report Type	Automatic
Area	Web Context (OC4J)

Metric C281_WebCntxtActSess

Policy Name	OASSPI_0281
Metric Name	C281_WebCntxtActSess
Metric Type	Alarming, Reporting, Graphing
Description	Number of sessions currently active for a Web module within an application
Available OAS Version	All
Severity: Condition with Threshold	Warning: OASSPI-0281.1, threshold 10000
Collection Interval	15 m
Threshold type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0281.1: Number of Web context active sessions (<$VALUE>) too high (>= <$THRESHOLD>) [Policy: <$NAME>]
Instruction Text	Probable Cause : The specific Web module instance of an application can be found in the object field of the message. This metric monitors the load of the Web module within each J2EE application. Refer the Oracle Application Server Performance Guide for information on tuning the performance of the application server. Potential Impact : NA Suggested Action : NA
Report Type	Automatic
Area	Web Context (OC4J)

OASSPI Reports (JMX) tools group

Oracle AS SPI Reports (JMX) group contains ASCII metric reports that display information about the condition of the Oracle Application Server (JMX). These reports are only available for Oracle Application Server version 10gR3.

To manually generate a report, do the following:

1. From the HPOM console, select Tools → SPI for Oracle AS → OASSPI Reports (JMX) .
2. Double-click a report.
3. Select the node for which you want to generate the report.
4. Select Launch .

Oracle AS SPI Metric Reports Description

Click the metric name in the table below to get detailed description of the metric.

Name/Associated Metric	Description
C005_JVMMemUtilPct	Percentage of heap space used in the JVM.
C010_CPUUtilPct	Percent of the CPU time utilized over the collection interval
C243_ServletReqRate	Number of requests for a servlet per second
C245_JSPAvgExecTime	Average time to serve a JSP (in msecs) over the collection interval
C248_JSPReqRate	Number of requests for a jsp per second
J272_TranRollbackResourceRt	Number of transactions rolledback due to and error in an enlisted resource per second
J340_SrvltAvgExecTim	Average response time of a servlet (in msecs) over the collection interval
J352_JMSPendingMessages	The total number of pending messages over the collection interval
J353_JMSMessageExpired	The total number of messages that have expired over the collection interval
J360_JDBCConnPoolUtil	Percentage utilization of available JDBC connections in connection pool
J362_JDBCConPlWtCntSum	The total number of threads waiting for a connection
J363_JDBCAvgUseTim	Average time spend using a connection (in msecs) over the collection interval
J364_JDBCAvgWaitTim	Average time spend waiting for a connection (in msecs) over the collection interval

J365_JCAConnPoolUtil	Percentage utilization of available JDBC connections in connection pool
J367_JCAConPlWtCntSum	The total number of threads waiting for a connection
J368_JCAAvgUseTim	Average time spend using a connection (in msecs) over the collection interval
J369_JCAAvgWaitTim	Average time spend waiting for a connection (in msecs) over the collection interval
J371_TranRollbackRt	Number of transactions rolledback per second

Related Topics:

- OASSPI Admin tools group
- Oracle AS SPI tools group
- OASSPI Reports tools group

Metric C243_ServletReqRate

Policy Name	OASSPI_0243
Metric Name	C243_ServletReqRate
Metric Type	Alarming, Reporting
Description	Number of requests for a servlet per second
Available OAS Version	10gR2, 10gR3
Severity: Condition with Threshold	Major: OASSPI-00243.1, threshold >=90 Warning: OASSPI-0243.2, threshold >=80
Collection Interval	
Threshold type	Maximum
Message Group	OracleAS
Message Text	
Instruction Text	
Report Type	
Area	

Metric C248_JSPReqRate

Policy Name	OASSPI_0248
Metric Name	C248_JSPReqRate
Metric Type	
Description	Number of requests for a JSP per second
Available OAS Version	All
Severity: Condition with Threshold	
Collection Interval	
Threshold type	
Message Group	OracleAS
Message Text	
Instruction Text	
Report Type	
Area	

Metric J272_TranRollbackResourceRt

Policy Name	OASSPI_0272
Metric Name	J272_TranRollbackResourceRt
Metric Type	Alarming, Reporting
Description	Number of transactions rolledback due to and error in an enlisted resource per second
Available OAS Version	10gR3
Severity: Condition with Threshold	Major: OASSPI-0272.1, threshold >=90 Warning: OASSPI-0272.2, threshold >=80
Collection Interval	5m
Threshold type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0272.1: % of transactions rolled back due to resource error (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>]
Instruction Text	Probable cause : The percent of transactions rolled back due to resource errors has exceeded the threshold value. Transactions are not successfully completing due to resource errors. Potential impact : Fewer user requests are being successfully completed. Suggested action : The administrator can monitor individual transactions from the Administration Console. In addition to displaying statistics, the following information can also be displayed: 1. Transactions by name, including rollback and time active information. 2. Transactions by resource, including statistics on total, committed, and rolled back transactions. All active transactions, including information on status, servers, resources, properties, and the transaction identifier.
Report Type	Application Bank: ASCII report

Area	Transactions

Metric J340_SrvltAvgExecTim

Policy Name	OASSPI_0340
Metric Name	J340_SrvltAvgExecTim
Metric Type	Alarming, Reporting
Description	Average response time of a servlet (in msecs) over the collection interval
Available OAS Version	10gR3
Severity: Condition with Threshold	
Collection Interval	1h
Threshold type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0340.1: Ave. execution time for a servlet (<$VALUE>ms) belongs to application <$OPTION(applicationname)> too high (>=<$THRESHOLD>ms) [Policy: <$NAME>]
Instruction Text	Probable cause : The average response time for a servlet has exceeded the threshold value. Application design issues. Potential impact : Slow response time in returning an HTML or XML response to the HTTP request from a client application. Suggested action : The cause of high execution time for the servlet could be a resource contention problem, or it could be due to the design of the servlet. You may also choose to re-evaluate the threshold setting for this metric if values consistently exceed the threshold value. If JSPs are used extensively in the Web-based application, there could be a performance impact due to having to compile the corresponding .jsp files into Java servlet code, and then compiling the Java code to a Java class file. In this situation, performance can be significantly improved by setting the server's java compiler to sj or jikes instead of javac.
Report Type	Application Bank: ASCII report
Area	Servlets

Metric J352_JMSPendingMessages

Policy Name	OASSPI_0352
Metric Name	J352_JMSPendingMessages
Metric Type	
Description	The total number of pending messages over the collection interval
Available OAS Version	All
Severity: Condition with Threshold	
Collection Interval	
Threshold type	
Message Group	OracleAS
Message Text	
Instruction Text	
Report Type	
Area	

Metric J353_JMSMessageExpired

Policy Name	OASSPI_0353
Metric Name	J353_JMSMessageExpired
Metric Type	
Description	The total number of messages that have expired over the collection interval
Available OAS Version	All
Severity: Condition with Threshold	
Collection Interval	
Threshold type	
Message Group	OracleAS
Message Text	
Instruction Text	
Report Type	
Area	

Metric J360_JDBCConnPoolUtil

Policy Name	OASSPI_0360
Metric Name	J360_JDBCConnPoolUtil
Metric Type	Alarming, Reporting, Graphing
Description	Percentage utilization of available JDBC connections in connection pool
Available OAS Version	10gR3
Severity: Condition with Threshold	
Collection Interval	5m
Threshold type	Maximum
Message Group	OracleAS
Message Text	
Instruction Text	Probable cause : The JDBC connection pool utilization has exceeded the threshold value. The number of available JDBC connections is low. Potential impact : Performance degradation caused by having to wait for a JDBC connection to a DBMS. Suggested action : If the database system can support additional connections, the Oracle AS administrator should increase the number of connections available for this connection pool. A good rule of thumb is that the maximum size of the connection pool should be equal to the number of Execute Threads configured in the Oracle Application Server. This assumes that each thread uses one transaction to service a request and therefore needs just one connection. If this is not the case, then a slightly larger connection pool may be more efficient. The connection pool minimum size should be equal to the maximum size. This ensures that all database connections are acquired during server start-up and not when the server is under load.
Report Type	Application Bank: ASCII Report

Area	JDBC

Metric J362_JDBCConPlWtCntSum

Policy Name	OASSPI_0362
Metric Name	J362_JDBCConPlWtCntSum
Metric Type	Alarming, Reporting, Graphing
Description	The total number of threads waiting for a connection
Available OAS Version	10gR3
Severity: Condition with Threshold	
Collection Interval	5m
Threshold type	Maximum
Message Group	OracleAS
Message Text	
Instruction Text	Probable cause : The total number of clients waiting for a connection has exceeded the threshold value. The size of the connection pool is too small relative to the number of current client sessions that require JDBC Connections. Potential impact : Client connection requests will be forced to wait for an available connection from the connection pool. Suggested action : Increase the maximum size of the connection pool. A good rule of thumb is that the maximum size of the connection pool should be equal to the number of Execute Threads configured in the Oracle AS Server. This assumes that each thread uses one transaction to service a request and therefore needs just one connection. If this is not the case, then a slightly larger connection pool may be more efficient. The connection pool minimum size should be equal to the maximum size. This ensures that all database connections are acquired during server start-up and not when the server is under load.
Report Type	Operator-initiated graph
Area	JDBC

Metric J363_JDBCAvgUseTim

Policy Name	OASSPI_0363
Metric Name	J363_JDBCAvgUseTim
Metric Type	
Description	Average time spend using a connection (in msecs) over the collection interval
Available OAS Version	All
Severity: Condition with Threshold	
Collection Interval	
Threshold type	
Message Group	OracleAS
Message Text	
Instruction Text	
Report Type	
Area	

Metric J364_JDBCAvgWaitTim

Policy Name	OASSPI_0364
Metric Name	J364_JDBCAvgWaitTim
Metric Type	Alarming, Reporting
Description	Average time spend waiting for a connection (in msecs) over the collection interval
Available OAS Version	10gR3
Severity: Condition with Threshold	
Collection Interval	5m
Threshold type	Maximum
Message Group	OracleAS
Message Text	
Instruction Text	Probable cause : The average time it takes to get a physical fconnection from the database has exceeded the threshold. Potential impact : NA Suggested action : For information on managing JDBC connections, see the *Oracle Application Server Performance Guide.*
Report Type	Automatic Action: ASCII report
Area	JDBC

Metric J365_JCAConnPoolUtil

Policy Name	OASSPI_0365
Metric Name	J365_JCAConnPoolUtil
Metric Type	Alarming, Reporting, Graphing
Description	Percentage utilization of available JDBC connections in connection pool
Available OAS Version	10gR3
Severity: Condition with Threshold	
Collection Interval	
Threshold type	
Message Group	OracleAS
Message Text	
Instruction Text	Probable cause : The utilization of a J2EE Connector connection pool (i.e., the number of connections in the pool that are being used) has exceeded a threshold value. The number of requested connections to a resource is approaching or has reached the maximum allowed. Potential impact : As ManagedConnections are created over time, the amount of system resources-such as memory and disk space-that each ManagedConnection consumes increases and may affect the performance of the overall system. If a new ManagedConnection needs to be created during a connection request, Application Server ensures that no more than the maximum number of allowed ManagedConnections are created. If the maximum number is reached, Application Server attempts to recycle a ManagedConnection from the connection pool. However, if there are no connections to recycle, a warning is logged indicating that the attempt to recycle failed and that the connection request can only be granted for the amount of connections up to the allowed maximum amount.

Report Type	Automatic Action: ASCII report
Area	J2EE

Metric J367_JCAConPlWtCntSum

Policy Name	OASSPI_0367
Metric Name	J367_JCAConPlWtCntSum
Metric Type	Alarming, Reporting, Graphing
Description	The total number of threads waiting for a connection
Available OAS Version	10gR3
Severity: Condition with Threshold	
Collection Interval	
Threshold type	
Message Group	OracleAS
Message Text	
Instruction Text	
Report Type	
Area	

Metric J368_JCAAvgUseTim

Policy Name	OASSPI_0368
Metric Name	J368_JCAAvgUseTim
Metric Type	
Description	Average time spend using a connection (in msecs) over the collection interval
Available OAS Version	All
Severity: Condition with Threshold	
Collection Interval	
Threshold type	
Message Group	OracleAS
Message Text	
Instruction Text	
Report Type	
Area	

Metric J369_JCAAvgWaitTim

Policy Name	OASSPI_0369
Metric Name	J369_JCAAvgWaitTim
Metric Type	Alarming
Description	Average time spend waiting for a connection (in msecs) over the collection interval
Available OAS Version	10gR3
Severity: Condition with Threshold	
Collection Interval	
Threshold type	
Message Group	OracleAS
Message Text	
Instruction Text	
Report Type	
Area	

Metric J371_TranRollbackRt

Policy Name	OASSPI_0371
Metric Name	J371_TranRollbackRt
Metric Type	Alarming, Reporting
Description	Number of transactions rolledback per second
Available OAS Version	10gR3
Severity: Condition with Threshold	Minor: OASSPI-0371.1, threshold, 1
Collection Interval	5m
Threshold type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0371.1: # of transactions rolled back (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>]
Instruction Text	Probable cause : The number of transactions rolled back has exceeded the threshold value. Application design issues or resource issues. Potential impact : User requests are not being successfully completed. Suggested action : The Oracle AS administrator should check the necessary database systems and ensure they are functioning correctly. In addition, the administrator should check the following configurable transaction attributes: Timeout Seconds - the time a transaction may be active before the system forces a rollback. Abandon Timeout Seconds - the maximum time that a transaction coordinator persists in attempting to complete a transaction. Before Completion Iteration Limit - The number of beforeCompletion callbacks that are processed before a system forces a rollback. The administrator can monitor individual transactions from the Administration Console. In addition to displaying statistics, the following information can also be displayed: 1. Transactions by name, including rollback and time active information. 2. Transactions by resource, including statistics on total, committed, and rolled

	back transactions. All active transactions, including information on status, servers, resources, properties, and the transaction identifier.
Report Type	Application Bank: ASCII report
Area	Transactions

Policies

Oracle AS SPI policy groups organize various HPOM policies.

The primary SPI for Oracle AS policy group contains the following policy groups and individual policies:

OASSPI :

- OASSPI-Logfiles : This policy group contains policies that generate messages depending on log file and error text detected in both the Oracle Application Server log files and in the Oracle AS SPI log files. The information captured from these log files includes errors that occur in the operation of the Oracle Application Server or the Oracle AS SPI and changes to the Oracle Application Server configuration.
- OASSPI-Metrics : Contains metric policies that monitor the performance levels and availability of Oracle OC4J/OHS servers.
  Each metric policy determines the threshold conditions for the monitored metric, the message text that is sent to the HPOM message browser when the threshold is exceeded, the actions to execute, and the instructions that appear.
- OASSPI-Metrics [JMX] : Contains JMX metric templates that monitor the performance levels and availability of Oracle OC4J/OHS servers version 10gR3.
- OASSPI-Monitors : This policy group contains collector policies that specify the collection interval of metric templates. Within the name of each collector policy is its collection interval. For example, the collection interval of the policy OASSPI-10-OHS-15min is 15 minutes. Collector policies are assigned a collection interval of 5 minutes, 15 minutes, or 1 hour. The collector policies:
  - Run the collector/analyzer at each collection interval.
  - Specify which metrics are collected.
- OASSPI-Monitors [JMX] : Contains JMX collector templates that specify the collection interval of the JMX metric templates. These templates are only for Oracle AS version 10gR3.
- OASSPI-Messages: This policy intercepts Oracle AS SPI messages for the HPOM message browser.

OASSPI-Discovery

- OASSPI-Messages: This policy intercepts Oracle AS SPI messages for the HPOM message browser.
- OASSPI Service Discovery : This policy updates the configuration on the HPOM management server and managed nodes.

Related Topics:

- Components

- Tools
- Getting Started

Logfiles

Smart Plug-in for Oracle Application Server (Oracle AS SPI) logfile policies monitor information logged in both Oracle Application Server and Oracle AS SPI files.

Logfiles Policy Name		Description
OASSPI Error Log		Monitors the OASSPI error log
OASSPI-Logfile-Monitor		Oracle Application Server Logfile Monitor
OracleAS Log		Monitors the OracleAS log files.

Related Topics:

- Metrics
- Monitors
- Policies
- Metric Naming/Numbering Conventions

OASSPI Error Log

Description	Monitors the OASSPI error log
Severity	Critical
Category	SPI for OracleAS
Type	Logfile Entry
Message Group	OASSPI
Help Text	Refer to the specific error message listed in OASSPI error messages for information about the error message.

Related Topics:

- Metrics
- Monitors
- Policies
- Metric Naming/Numbering Conventions

OASSPI-Logfile-Monitor

Description	Oracle Application Server Logfile Monitor
Severity	
Category	SPI for OracleAS
Type	Measurement Threshold
Message Group	OASSPI
Help Text	Refer to the specific error message listed in OASSPI error messages for information about the error message.

Related Topics:

- Metrics
- Monitors
- Policies
- Metric Naming/Numbering Conventions

OracleAS Logs

Description	Monitors the OracleAS log files.
Severity	Critical Warning
Category	SPI for OracleAS
Type	Logfile Entry
Message Group	OracleAS
Help Text	Probable Cause : A message with the indicator 'EMERGENCY' or 'FATAL' was detected in the Oracle Application Server log file. OR A message with the indicator 'NOTICE', 'ERROR', or 'ALERT' was detected in the Oracle Application Server log file. Suggested Action : Examine the error and for more information about the error refer to the Oracle Application Server Configuration Guide or online help.

Related Topics:

- Metrics
- Monitors
- Policies
- Metric Naming/Numbering Conventions

Metrics

A metric is a measurement that defines a specific operational or performance characteristic. Smart Plug-in for Oracle Application Server (Oracle AS SPI) metric policies have pre-defined settings that simplify setup tasks for the Oracle AS SPI. You can customize these setting based on the requirements of your IT environment.

Click the following lists to view all metrics policies by metric area. Click a metric name in the metric summary table to view details of the metric. There are no policy settings for reporting/graphing metrics. Metrics are available for all versions of Oracle Application Server.

- Availability Metrics

ID	Metric Name	Policy Name	Description	Type	Severity	Area
1	C001_ServerStatus	OASSPI_0001	Server Status	A	Critical	Availability

- JVM (OC4J) Metrics

ID	Metric Name	Policy Name	Description	Type	Severity	Area
5	C005_JVMMemUtilPct	OASSPI_0005	JVM Heap Memory Utilization - Percent	GA	Critical, Major	JVM

- Process Metrics

ID	Metric Name	Policy Name	Description	Type	Severity	Area
10	C010_CPUUtilPct	OASSPI_0010	CPU Time Utilization - Percent	GRA	Critical, Warning	Process
11	C011_MemoryUtilPct	OASSPI_0011	Physical Memory Utilization - Percent	GRA	Critical, Warning	Performance

- EJB (OC4J) Metrics

ID	Metric Name	Policy Name	Description	Type	Severity	Area
220	C220_EJBClActThreads	OASSPI_0220	EJB Method Client Active Threads Count	RA	Warning	EJB (OC4J)
221	C221_EJBClAvgExecTim	OASSPI_221	EJB Method Client Avg Execution Time - msecs	RA	Major, Warning	EJB (OC4J)
222	C222_EJBClCallsPrcRt	OASSPI_222	EJB Method Client Calls Process Rate - # per minute	RA	Warning	EJB (OC4J)
230	C230_EJBWrapActThrds	OASSPI_0230	EJB Wrapper Method Active Threads Count	RA	Warning	EJB (OC4J)
231	C231_EJBWrpAvExecTim	OASSPI_0231	EJB Wrapper Method Avg Execution Time - msecs	RA	Major, Warning	EJB (OC4J)
232	C232_EJBWrpCallPrcRt	OASSPI_0232	EJB Wrapper Method Calls Process Rate - # per minute	RA	Warning	EJB (OC4J)

- Servlets (OC4J) Metrics

ID	Metric Name	Policy Name	Description	Type	Severity	Area
240	C240_SrvltAvgExecTim	OASSPI_240	Servlet Average Execution Time - msecs	RA	Major, Warning	Servlet (OC4J)
242	C242_SrvltActThreads	OASSPI_0242	Servlet Active Threads count	RA	Warning	Servlet (OC4J)

- JSP (OC4J) Metrics

ID	Metric Name	Policy Name	Description	Type	Severity	Area
245	C245_JSPAvgExecTime	OASSPI_0245	JSP Average Service Time - msecs	RA	Major, Warning	JSP (OC4J)
247	C247_JSPActRequests	OASSPI_0247	JSP Active Requests Count	RA	Warning	JSP (OC4J)

- JMS (OC4J) Metrics

ID	Metric Name	Policy Name	Description	Type	Severity	Area
50	C050_JMSConnCreated	OASSPI_0050	JMS Connections Created during Collection Interval	GRA	Critical	JMS (OC4J)
251	C251_JMSTotalMsgCt	OASSPI_0251	JMS Number of Messages in the Store	RA	Critical	JMS (OC4J)

- JDBC (OC4J) Metrics

ID	Metric Name	Policy Name	Description	Type	Severity	Area
260	C260_JDBCacheMissPct	OASSPI_0260	JDBC Connection Cache Misses Percent	RA	Major, Warning	JDBC (OC4J)

- Web Context (OC4J) Metrics

ID	Metric Name	Policy Name	Description	Type	Severity	Area
280	C280_WebCntxtAvRqPrc	OASSPI_0280	OC4J Web Context Avg Request Process Time - msecs	GRA	Major, Warning	Web Context (OC4J)
281	C281_WebCntxtActSess	OASSPI_0281	OC4J Web Context Active Sessions Count	GRA	Warning	Web Context (OC4J)

- HTTP (OC4J) Metrics

ID	Metric Name	Policy Name	Description	Type	Severity	Area
100	C100_HTTPSvrActConn	OASSPI_0100	Active HTTP Connections Count	GRA	Warning	HTTP (OC4J)

Related Topics:

- Metric Naming/Numbering Conventions
- Monitors
- Logfiles

Metric C001_ServerStatus

Policy Name	OASSPI_0001
Metric Name	C001_ServerStatus
Metric Type	Alarming
Description	Status of the server
Available OAS Version	All
Severity: Condition with Threshold	Critical: OASSPI-0001.1, threshold 1.5 Critical: OASSPI-0001.2, threshold 2.5 Critical: OASSPI-0001.3, threshold 3.5 Critical: OASSPI-0001.4, threshold 4.5 Critical: OASSPI-0001.5, threshold 5.5 Critical: OASSPI-0001.6, threshold 6.5 Critical: OASSPI-0001.7, threshold 7.5 Critical: OASSPI-0001.8, threshold 8.5
Collection Interval	5 m
Threshold type	Minimum
Message Group	OracleAS
Message Text	OASSPI-0001.1: Server Status: Unknown OASSPI-0001.2: Server Status: BounceFail OASSPI-0001.3: Server Status: InitFail OASSPI-0001.4: Server Status: Stopped OASSPI-0001.5: Server Status: Stop OASSPI-0001.6: Server Status: Restart OASSPI-0001.7: Server Status: Bounce OASSPI-0001.8: Server Status: Init
Instruction Text	Probable cause : For each server, this metric reports the status of the HTTP server and the OC4J components for the Oracle Application Server (OAS). If the server is not in the Alive state, the following events may have occurred: 1. The server is being initialized, bounced, or restarted. 2. The server is being stopped or has been stopped.

	3. The server has failed to initialize or bounce. 4. The server may have gone down for other reasons. Potential Impact : If the server is in the Init, Bounce, or Restart state, it should be Alive soon. If the server is stopped or in the process of being stopped, the server is no longer available. If the server status is InitFail, BounceFail, or Unknown, it is not in the operational state and the OAS administrator should be notified. Suggested action : If the designated server is not running, the OAS Administrator should start the server using the appropriate script or the Oracle Enterprise Manager console. It is important to note if this is the HTTP server or an OC4J instance, since the startup process is different for each type. If the server has been stopped, it may have been placed in this state for a reason.
Report Type	N/A
Area	Availability

Metrics [JMX]

Metrics [JMX] are available for 10gR3 version of Oracle Application Server.

- OASSPI_0274
- OASSPI_0235
- OASSPI_0275
- OASSPI_0015
- OASSPI_0272
- OASSPI_0013
- OASSPI_0234
- OASSPI_0243
- OASSPI_0273
- OASSPI_0014
- OASSPI_0233
- OASSPI_0012
- OASSPI_0290

Related Topics:

- Metric Naming/Numbering Conventions
- Monitors
- Monitors [JMX]
- Logfiles

Metric C274_TranRollbackTimedoutRt

Policy Name	OASSPI_0274
Metric Name	C274_TranRollbackTimedoutRt
Metric Type	Alarming, Reporting
Description	Number of transactions rolledback due to timeout per second
Available OAS Version	10gR3
Severity: Condition with Threshold	Major: OASSPI-0274.1, threshold >=90 Warning: OASSPI-0274.2, threshold >=80
Collection Interval	5m
Threshold type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0274.1: % of transactions rolled back due to timeout error (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>]
Instruction Text	Probable cause : The percent of transactions rolled back due to timeout errors has exceeded the threshold value. Transactions are not successfully completing due to timeout errors. Potential impact : Fewer user requests are being successfully completed. Suggested action : The administrator can monitor individual transactions from the Administration Console. In addition to displaying statistics, the following information can also be displayed: 1. Transactions by name, including rollback and time active information. 2. Transactions by resource, including statistics on total, committed, and rolled back transactions. All active transactions, including information on status, servers, resources, properties, and the transaction identifier.
Report Type	Operator-initiated graph; Application Bank: ASCII report
Area	Transactions

Metric

Policy Name	OASSPI_0235
Metric Name	
Metric Type	
Description	Entity Bean Pool Utilization
Available OAS Version	All
Severity: Condition with Threshold	Major: OASSPI-0235.1, threshold >=90 Warning: OASSPI-0235.2, threshold >=80
Collection Interval	
Threshold type	Maximum
Message Group	OracleAS
Message Text	
Instruction Text	
Report Type	
Area	

Metric C275_TranRollbackAdminRt

Policy Name	OASSPI_0275
Metric Name	C275_TranRollbackAdminRt
Metric Type	Alarming, Reporting
Description	Number of transactions rolledback due to administrative action per second
Available OAS Version	10gR3
Severity: Condition with Threshold	Major: OASSPI-0275.1, threshold >=90 Warning: OASSPI-0275.2, threshold >=80
Collection Interval	
Threshold type	Maximum
Message Group	OracleAS
Message Text	
Instruction Text	
Report Type	Operator-initiated graph; Application Bank: ASCII report
Area	Transactions

Metric C015_ThreadPoolWaitCnt

Policy Name	OASSPI_0015
Metric Name	C015_ThreadPoolWaitCnt
Metric Type	Alarming, Graphing, Reporting
Description	Number of task(s) waiting in the queue for a thread to become available
Available OAS Version	10gR3
Severity: Condition with Threshold	Major: OASSPI-0015.1, threshold >=90 Warning: OASSPI-0015.2, threshold >=80
Collection Interval	
Threshold type	Maximum
Message Group	OracleAS
Message Text	
Instruction Text	
Report Type	
Area	

Metric C013_ServerStatus

Policy Name	OASSPI_0013
Metric Name	C013_ServerStatus
Metric Type	Alarming
Description	Status of the OHS server
Available OAS Version	10gR3
Severity: Condition with Threshold	Major: OASSPI-0013.1, threshold >=90 Warning: OASSPI-0013.2, threshold >=80
Collection Interval	
Threshold type	Maximum
Message Group	OracleAS
Message Text	
Instruction Text	
Report Type	
Area	

Metric

Policy Name	OASSPI_0234
Metric Name	
Metric Type	
Description	Stateful Session Bean Pool Utilization
Available OAS Version	All
Severity: Condition with Threshold	Major: OASSPI-00234.1, threshold >=90 Warning: OASSPI-0234.2, threshold >=80
Collection Interval	
Threshold type	Maximum
Message Group	OracleAS
Message Text	
Instruction Text	
Report Type	
Area	

Metric C273_TranRollbackAppRt

Policy Name	OASSPI_0273
Metric Name	C273_TranRollbackAppRt
Metric Type	Alarming, Reporting
Description	Number of transactions rolledback due to the application calling setRollbackOnly or rollback explicitly per second
Available OAS Version	10gR3
Severity: Condition with Threshold	Major: OASSPI-00273.1, threshold >=90 Warning: OASSPI-0273.2, threshold >=80
Collection Interval	5m
Threshold type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0273.1: % of transactions rolled back due to application error (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>]
Instruction Text	Probable cause : The percent of transactions rolled back due to application errors has exceeded the threshold value. Transactions are not successfully completing due to application errors. Potential impact : Fewer user requests are being successfully completed. Suggested action : The administrator can monitor individual transactions from the Administration Console. In addition to displaying statistics, the following information can also be displayed: 1. Transactions by name, including rollback and time active information. 2. Transactions by resource, including statistics on total, committed, and rolled back transactions. All active transactions, including information on status, servers, resources, properties, and the transaction identifier.
Report Type	Operator-initiated graph; Application Bank: ASCII report
Area	Transactions

Metric C014_ThreadPoolUtil

Policy Name	OASSPI_0014
Metric Name	C014_ThreadPoolUtil
Metric Type	Alarming, Graphing, Reporting
Description	Percentage utilization of available connections in thread pool
Available OAS Version	10gR3
Severity: Condition with Threshold	Major: OASSPI-0014.1, threshold >=90 Warning: OASSPI-0014.2, threshold >=80
Collection Interval	
Threshold type	Maximum
Message Group	OracleAS
Message Text	
Instruction Text	
Report Type	
Area	

Metric

Policy Name	OASSPI_0233
Metric Name	
Metric Type	
Description	Stateless Session Bean Pool Utilization
Available OAS Version	All
Severity: Condition with Threshold	Major: OASSPI-0233.1, threshold >=90 Warning: OASSPI-0233.2, threshold >=80
Collection Interval	
Threshold type	Maximum
Message Group	OracleAS
Message Text	
Instruction Text	
Report Type	
Area	

Metric C012_CPUUtilPctHTTP

Policy Name	OASSPI_0012
Metric Name	C012_CPUUtilPctHTTP
Metric Type	Alarming, Graphing, Reporting
Description	Percent of the CPU time utilized by HTTP server over the collection interval
Available OAS Version	10gR2, 10gR3
Severity: Condition with Threshold	Major: OASSPI-0012.1, threshold >=90 Warning: OASSPI-0012.2, threshold >=80
Collection Interval	
Threshold type	Maximum
Message Group	OracleAS
Message Text	
Instruction Text	
Report Type	
Area	

Metric C290_TimerServiceStatus

Policy Name	OASSPI_0290
Metric Name	C290_TimerServiceStatus
Metric Type	Alarming
Description	Status of the Timer service
Available OAS Version	10gR2, 10gR3
Severity: Condition with Threshold	Major: OASSPI-0290.1, threshold >=90 Warning: OASSPI-0290.2, threshold >=80
Collection Interval	
Threshold type	Maximum
Message Group	OracleAS
Message Text	
Instruction Text	
Report Type	
Area	Timer Service

Monitors

Smart Plug-in for Oracle Application Server (Oracle AS SPI) Monitors policy group contains:

- Collector policies
- OASSPI-ConfigCheck policy
- OASSPI-Performance policy

Collector policies

Collector policies control what metrics are collected by running the collector/analyzer at the specified polling interval and defining the metrics that are collected.

Collector Policy Name	Policy Description	Polling Interval	Metrics Collected
OASSPI-OC4J-1h	Runs the Oracle AS 10g SPI (OC4J) collector/analyzer every 1 hour	59 m	20-22, 220-222, 30-32, 230-232, 42, 240-242, 47, 245-247, 251
OASSPI-OC4J-15min	Runs the Oracle AS 10g SPI (OC4J) collector/analyzer every 15 minutes	14 m	50, 280, 281
OASSPI-OC4J-05min	Runs the Oracle AS 10g SPI (OC4J) collector/analyzer every 5 minutes	5 m	1, 2, 5, 10, 11, 260
OASSPI-OHS-15min	Runs the Oracle AS 10g SPI (HTTP_Server) collector/analyzer every 15 minutes	14 m	100, 108, 109
OASSPI-OHS-05min	Runs the Oracle AS 10g SPI (HTTP_Server) collector/analyzer every 5 minutes	5 m	1, 2, 10, 11

OASSPI-ConfigCheck

OASSPI-ConfigCheck checks if the managed node is configured.

OASSPI-Performance

OASSPI-Performance logs Oracle AS SPI performance data every 5 minutes.

Related Topics:

- Metrics
- Logfiles
- Metric Naming/Numbering Conventions

Configuration editor-overview

The Smart Plug-in for Oracle Application Server (Oracle AS SPI) maintains a configuration that consists of property values that are discovered by the discovery process or are user defined. The configuration editor is a graphical user interface that you can use to view and edit the configuration. Both the Configure OASSPI and Discover OracleAS tools use the configuration editor.

Related Topics:

- The configuration editor-getting started
- Components of configuration editor
- Sample configurations
- Configuration properties

The configuration editor-getting started

The Smart Plug-in for Oracle Application Server (Oracle AS SPI) maintains the configuration that consists of property values that are discovered by the discovery process or are user defined.

On the HPOM management server, the configuration maintains information for your entire environment and contains information for all OC4J/OHS servers on the managed nodes.

On a managed node, the configuration contains information only for the OC4J/OHS servers running on that node. This information is extracted from the configuration on the management server.

The structure

The structure of the configuration is as below (lines beginning with "#" are treated as comments and ignored):

```
# Global Properties

  <config_property >=<value > ...


# GROUP Block

  GROUP <group_name >
  {
     <nodename > ...
  }


# NODE Block

  NODE [<group_name > | <nodename >]
  {
     <config_property >=<value > ...
  }
```

Click the links below to get detailed information about each level:

- Global Properties

```
# Global Properties

  <config_property >=<value > ...
```

Properties defined at the global level apply to all nodes. However, these global properties can be overridden by properties set within a GROUP or NODE block or by server-specific properties.

To view, set, or edit global properties, in the configuration editor select the Default Properties item under the Defaults folder. Using the configuration editor, view, set, or edit global properties by selecting the Default Properties item in the Defaults folder.

- GROUP Block

```
# GROUP Block

  GROUP <group_name >
  {
     <nodename > ...
  }
```

You can use GROUP blocks to group together nodes having common properties.

<*group_name* > denotes a group of nodes with common properties. If you repeat a GROUP block <*group_name* > within the configuration file, then the last definition takes precedence.

<*nodename* > lists the nodes in the group and is the primary node name configured in HPOM.

You can set the common properties using the NODE block.

To view, set, or edit GROUP block properties, in the configuration editor select the Default Properties item under the <*Group_Name*> folder.

- NODE Block

```
# NODE Block

  NODE [<group_name > | <nodename >]
  {
     <config_property >=<value > ...
  }
```

Properties set in a NODE block apply to nodes belonging to the group defined by <*group_name* > (to set common properties for a group) or to the specified <*nodename* > (to set properties for a single node).

To set properties for a group, enter the <*group_name* > defined by the GROUP block and define the common properties.

To set properties for a single node, enter the <*nodename* > and define the properties.

<*nodename* > is the primary node name configured in HPOM.

If you repeat a property definition within the NODE block, the last definition takes precedence.

To view, set, or edit GROUP block properties, in the configuration editor select the Default Properties item under the <*Node_Name*> folder.

Server-specific properties

Apart from the high level properties you can also view, set, or edit properties specific to a server. Each property specified as SERVER<*n* >*_config_property* refers to a specific OC4J/OHS server instance. When more than one OC4J/OHS servers are running on a given managed node, the number <*n* > differentiates the servers. Numbering begins at "1" and each OC4J/OHS server instance is assigned a unique number.

To view, set, or edit server specific properties, in the configuration editor select <*Application_Server_Name*> under the OC4J/OHS folder.

Configuration property precedence

The order of precedence of properties defined in the configuration are:

1. SERVER<*n* >*_config_property* (server-specific)
2. NODE *nodename* block *config_property*
3. NODE *group_name* block *config_property*
4. Global *config_property*

Primary node name

The <*nodename* > specified in a GROUP and NODE block is the primary node name configured in HPOM. To view the primary node name, do the following:

1. From the HPOM console, select Operations Manager → Nodes .
2. Right-click the node and select Properties .
3. Select the Network tab.

Configuration location

Click the links below to view a list of locations of the configuration file. You must, however, edit the configuration using the configuration editor only.

- On management server <*ShareInstallDir*> \SPI-Share\wasspi\oas\conf\SiteConfig

where <*ShareInstallDir*> is typically `C:\Documents and Settings\All Users\Application Data\HP\HP BTO Software\shared`

This file contains all configuration information for all managed nodes on which OC4J/OHS is running.

- On Windows managed node <*OvAgentDir*> `\wasspi\oas\conf\SiteConfig`

  where <*OvAgentDir*> is typically `\Program Files\HP\HP BTO Software\` or `C:\Program Files\HP OpenView\Installed Packages\{790C06B4-844E-11D2-972B-080009EF8C2A}`

  This file contains the local configuration information for this managed node on which OC4J/OHS is running.

- On UNIX managed node <*OvAgentDir*> `/conf/oasspi/SiteConfig`

  where <*AgentDir*> is typically `/var/opt/OV/` or `/var/lpp/OV/`

  This file contains the local configuration information for this managed node on which OC4J/OHS is running.

Related Topics:

- Configuration editor-overview
- Sample configurations
- Components of configuration editor

Components of configuration editor

You can use the Oracle Application Server Smart Plug-in (Oracle AS SPI) configuration editor to view and edit the configuration. You must update the configuration using the configuration editor only.

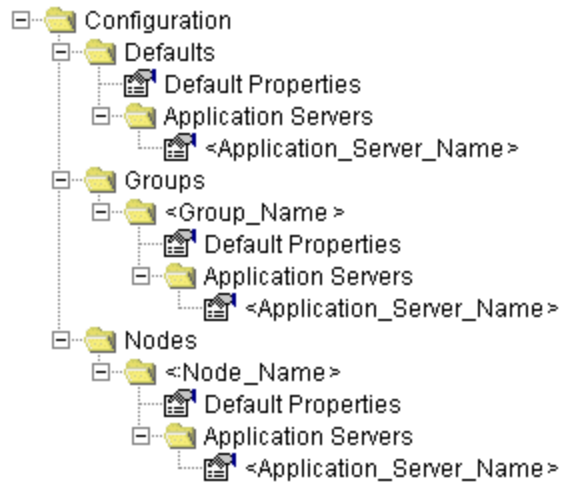
The configuration editor has three components:

- The configuration editor tree

  The Configure OASSPI tree displays the Oracle AS SPI configuration file in a tree structure. You can view the configuration tree in the left pane of the Configure OASSPI Tool: Configuration Editor window.

  The following is an example of the tree.

  NOTE:
  If no application servers or groups are configured, the Application Servers and Groups folders do not appear. If you do not select nay node when launching the Configure OASSPI tool for the first time then the Nodes folder does not appear in the tree.



  The icon denotes that you can view configuration properties.

  The icon denotes that you can view and set configuration properties.

  The following table lists each item in the tree and a brief description of the item.

Item Name	Description
Application Servers	A folder that contains a list of all the OC4J/OHS servers. This folder can appear under Defaults (global properties level), Group_Name (GROUP level), or Node_Name (NODE level).
<*Application_Server_Name* >	The server name as defined in Oracle Application Server.
Configuration	A folder that contains all Oracle AS SPI configuration information for the Oracle Application Server environment.
Default Properties	Lists the configuration properties that have been set. This item appears under Defaults (global properties level), Group_Name (GROUP level), or Node_Name (NODE level).
Defaults	This folder represents the global properties level . Default properties set at this level apply to all nodes. But, these properties can be overridden by properties set under the <*Group_Name* > <*Node_Name* >folders.
Groups	This folder represents the GROUP level .
<*Group_Name* >	This folder identifies the name of a group of nodes with common properties. Default properties set at this level apply to all nodes that belong to the specific group. These properties can be overridden by properties set under the <*Node_Name* > folder
Nodes	This folder represents the NODE level .
<*Node_Name* >	This folder represents a single node whose name matches the value returned by the HPOM variable `$OPC_NODES` . This is the primary node name configured in HPOM. Default properties set at this level apply to the specified node only.

- Actions to perform

  The actions that you can perform depend on the item that you select in the tree. You can perform the actions listed in the table below either by using the Actions menu or by right-clicking an item in the tree.

  In the following table, click the action for a more detailed description (if available) of how to perform that action.

Action	Description	Selected Tree Item
Add OC4J/OHS Server	You can add an OC4J/OHS server to the managed node.	OC4J/OHS Servers Defaults <*Group_Name* > <*Node_Name* >
Add Group	You can create a group to which you can assign nodes that have common properties.	Any item in the tree Any item in the tree
Add Node	You can add a managed node to the Nodes folder.	Any item in the tree Any item in the tree
Exit	To exit the Configure OASSPI tool. This action is available from the File menu. If you make any changes that are saved, the Confirm Cancel window pop-up window opens.	Any item in the tree Any item in the tree
Remove OC4J/OHS Server/Remove ALL OC4J/OHS Servers	You can remove one instance of the OC4J/OHS server or remove all listed OC4J/OHS servers from the managed node.	OC4J/OHS Servers <*OC4J/OHS_Server_Name* >
Remove Group/Remove ALL Groups	Remove one Oracle AS SPI group or all listed oas-SPI groups.	Groups <*Group_Name* >
Remove Node/Remove ALL Nodes	Remove one managed node or remove all managed nodes.	Nodes <*Node_Name* >
Save	To save changes to the configuration file. This action is available from the File menu only if you make any changes to the configuration file.	Any item in the tree Any item in the tree
Set Configuration Properties tab	You can click the Set Configuration Properties tab and set configuration properties for the Oracle AS SPI.	<*OC4J/OHS_Server_Name* > Default Properties
View Current Configuration tab	You can click the View Current Configuration tab to view Oracle AS SPI configuration properties.	Any item in the tree Any item in the tree

- The configuration editor buttons

Sample Configurations

The sample Smart Plug-in for Oracle Application Server (Oracle AS SPI) configuration files illustrate various features and utilization methods. This sample configuration would be displayed at the Defaults level by selecting the View Current Configuration tab .

Example 1: single node/two servers

This example is for a single node running two servers: an OC4J server and a HTTP server.The properties HOME, JAVA_HOME, MAP_KEY_PREFIX, and VERSION are global defaults that apply to all servers and nodes.

```
HOME=C:/OraHome_1
JAVA_HOME=C:/OraHome/jdk
MAP_KEY_PREFIX=
VERSION=10.1 2
NUM_SERVERS=2
NODE some_node.hp.com
{
SERVER1_NAME=HTTP_Server
SERVER1_TYPE=ohs
SERVER2_NAME=home
SERVER2_TYPE=ajp13
}
```

Example 2: multiple nodes/repeated properties

This example shows you how to configure a group of related systems that have numerous properties in common. Some nodes, however, may have one or two properties that you must set differently. Follow these steps:

1. Use the Add Group action in the configuration editor to name the group, specify the nodes in the group, and set the configuration properties.
2. Use the Add Node action in the configuration editor to define individual node properties (either for nodes not in the group or for nodes that are in the group but have unique/separate properties).

A sample configuration is given below

```
HOME = /opt/oracle/appsrv
JAVA_HOME = /opt/oracle/appsrv/jdk
MAP_KEY_PREFIX = /appsrv.hp.com
VERSION = 10.1.2
```

```
GROUP production
{
mercury.hp.com
venus.hp.com
mars.hp.com
jupiter.hp.com
}
NODE production
{
SERVER1_NAME = HTTP_Server
SERVER1_TYPE = ohs
SERVER2_NAME = OC4J_Portal
SERVER2_TYPE = ajp13
SERVER3_NAME = home
SERVER3_TYPE = ajp13
SERVER4_NAME = HTTP_Server
SERVER4_TYPE = ohs
SERVER4_HOME = /opt/oracle/infra
SERVER4_JAVA_HOME = /opt/oracle/infra/jdk
SERVER4_MAP_KEY_PREFIX = /oasspi/infra.hp.com
SERVER5_NAME = OC4J_SECURITY
SERVER5_TYPE = ajp13
SERVER5_HOME = /opt/oracle/infra
SERVER5_JAVA_HOME = /opt/oracle/infra/jdk
SERVER5_MAP_KEY_PREFIX = /oasspi/infra.hp.com
}
NODE europa.hp.com
{
SERVER1_NAME = OC4J_SECURITY
SERVER1_TYPE = ajp13
SERVER1_HOME = /opt/oracle/infra
SERVER1_JAVA_HOME = /opt/oracle/infra/jdk
SERVER1_MAP_KEY_PREFIX = /oasspi/infra.hp.com
}
```

Related Topics:

- The configuration editor-getting started
- Components of configuration editor
- Configuration properties

Configuration properties

The Smart Plug-in for Oracle Application Server (Oracle AS SPI) maintains a configuration that consists of property values that are discovered by the discovery process or are user defined.

If you are not using the discovery process, you must configure all the required properties.

NOTE:
If the discovery policy is deployed then it automatically updates the service map and Oracle AS SPI configuration. Set the AUTO_DISCOVER property to false if you do not want the discovery policy to automatically overwrite this configuration information (unselect the AUTO_DISCOVER check box if you are using the configuration editor).

The following table lists:

- required configuration properties
- conditional configuration properties
- optional configuration properties

To view the description of each property, click the property name in the table below, or use the drop-down menu at the bottom of the page. To display the descriptions of all properties based on configuration requirements (required, conditional, or optional), use the drop-down menu at the bottom of the page.

Do not use the Back button to navigate to any properties viewed previously. Instead, use the drop-down menu at the bottom of the page.

Property	Configuration	Discovery	Automatically Discovered	Level of Configuration	
				Default Properties	Application Server
HOME	Required	Conditional	✓	✓	✓
JAVA_HOME	Required	N/A	✓	✓	✓
LOGIN	Required	N/A		✓	✓
MAP_KEY_PREFIX	Required	Required	✓	✓	✓
NAME	Required	N/A	✓		✓
PASSWORD	Required	N/A		✓	✓

URL_PATH	Required	Required	✓	✓	✓
ALIAS	Conditional	N/A			✓
AUTO_DISCOVER	Conditional	Conditional		✓	✓
GRAPH_URL	Optional	N/A		✓	
RMID_PORT	Conditional	N/A		✓	
RMID_START_TIME	Conditional	N/A		✓	
TYPE	Conditional	N/A	✓		✓
USER	Conditional	N/A		✓	✓
VERSION	Conditional	N/A	✓		✓
START_CMD	Optional	N/A		✓	✓
STOP_CMD	Optional	N/A			✓
MAX_ERROR_LOG_SIZE	Optional	N/A		✓	
TIMEOUT	Optional	N/A		✓	✓

Related Topics:

- The configuration editor-getting started
- Components of configuration editor
- Sample configurations

Reports and graphs

In addition to metric reports and operator-initiated graphs, the Smart Plug-in for Oracle Application Server (Oracle AS SPI) provides a limited version of HP Reporter reports and HP Performance Manager graphs. These reports and graphs show consolidated data on server performance and availability on all Oracle Application Server systems.

Reports are generated at 2 A.M. daily. You can view a report only after one full day of metric collection (the 'SPI for Oracle Application Server' folder does not appear before that).

Graphs are generated at the time they are run. You can view the graphs after installing Oracle AS SPI (the 'SPI for Oracle Application Server' folder is available). However, if you try generating graphs before the data is collected an error message appears.

Oracle AS SPI can be integrated with HP Reporter and HP Performance Manager (both products must be purchased separately) to provide additional reporting and graphing flexibility and capabilities. For more information about integrating Oracle AS SPI with HP Reporter and HP Performance Manager, refer to *HP Operations Smart Plug-in for Oracle Application Server Configuration Guide* available on the HP Operations Smart Plug-ins DVD in the file `\Documentation\SPI Guides\Oracle_AppServer_Config.pdf` .

Related Topics:

- Tools
- Policies

Error messages

The error messages listed here result from conditions detected in the operation of the Smart Plug-in for Oracle Application Server (Oracle AS SPI) and not Oracle Application Server itself. For any given problem, only the most recent error message appears (the older error message is automatically acknowledged). This reduces the number of error messages that appear in the message browser.

Most error messages have a help text associated with them. This help text shows the probable cause of the error, potential impact, and suggested action to rectify the error. To view this help text right-click the error message and select Instructions. The Message Properties window opens. The help text (if any) appears in this window under the Instructions tab.

Click the error message number, in the table below, to get detailed information about that error.

1 - 24	26 - 43	201 - 226	227 +
WASSPI-1	WASSPI-26	WASSPI-201	WASSPI-227
WASSPI-2	WASSPI-27	WASSPI-202	WASSPI-228
WASSPI-3	WASSPI-28	WASSPI-203	WASSPI-229
WASSPI-4	WASSPI-29	WASSPI-204	WASSPI-230
WASSPI-5	WASSPI-30	WASSPI-205	WASSPI-231
WASSPI-6	WASSPI-31	WASSPI-206	WASSPI-232
WASSPI-7	WASSPI-32	WASSPI-207	WASSPI-234
WASSPI-8	WASSPI-33	WASSPI-208	WASSPI-235
WASSPI-9	WASSPI-34	WASSPI-209	WASSPI-236
WASSPI-10	WASSPI-35	WASSPI-210	WASSPI-237
WASSPI-11	WASSPI-36	WASSPI-211	WASSPI-241
WASSPI-12	WASSPI-37	WASSPI-213	WASSPI-601

WASSPI-13	WASSPI-38	WASSPI-214	WASSPI-602
WASSPI-14	WASSPI-39	WASSPI-216	WASSPI-603
WASSPI-15	WASSPI-40	WASSPI-218	WASSPI-604
WASSPI-16	WASSPI-41	WASSPI-219	WASSPI-605
WASSPI-18	WASSPI-42	WASSPI-221	WASSPI-606
WASSPI-19	WASSPI-43	WASSPI-222	WASSPI-607
WASSPI-20		WASSPI-223	WASSPI-608
WASSPI-21		WASSPI-224	WASSPI-609
WASSPI-23		WASSPI-225	WASSPI-610
WASSPI-24		WASSPI-226	WASSPI-611
			All other errors

WASSPI-1

Description	Unable to create the lock file <*filename*> . File already exists.
Severity	Critical
Help Text	Probable Cause Temporary lock files are used to avoid collisions when multiple Oracle Application Server SPI data collector processes attempt to access the same data file. This error occurs when the lock file could not be created after several attempts because it already exists. Potential Impact : NA Suggested Action If a file by the same name already exists, it may not have been deleted by a previous run of the Oracle Application Server SPI data collector. You should delete this file manually.

WASSPI-2

Description	Cannot access the SPI configuration.
Severity	Critical
Help Text	Probable Cause A Oracle Application Server SPI configuration file could not be located or accessed. Either they do not exist or there was a problem reading the files. Potential Impact : NA Suggested Action 1. Verify that the Oracle Application Server SPI has been configured correctly by running the OASSPI Admin → Verify tool. If the configuration is not correct, run the OASSPI Admin →Configure OASSPI tool. 2. Refer to the text following the error message in the OASSPI error log to help identify the underlying cause of the problem. For example, an I/O exception. You can view the SPI error log for a managed node by using the OASSPI Admin → View Error Log tool. The error message can be identified by the date/time stamp.

WASSPI-3

Description	Error parsing command line.
Severity	Critical
Help Text	Probable Cause The OASSPI data collector command line is incorrectly specified in a monitor policy. Potential Impact : NA Suggested Action 1. Refer to the text following the error message in the OASSPI error log to help identify the data collector command line syntax error. You can view the SPI error log for a managed node by using the OASSPI Admin → View Error Log tool. The error message can be identified by the date/time stamp. 2. Correct the policy that contains the incorrect command line and redeploy. Refer to the HP Operations Manager Smart Plug-in for Oracle Application Server Configuration Guide for more information on the Oracle Application Server SPI data collector command line.

WASSPI-4

Description	Error getting the metric definitions.
Severity	Critical
Help Text	Probable Cause The OASSPI data collector could not read the metric definitions XML document. This error can be caused by a missing configuration property, an I/O error, an XML parsing error, a missing file, or a corrupted serialized data file. Potential Impact : NA Suggested Action 1. Refer to the text following the error message in the OASSPI error log to help identify the underlying cause of the problem. You can view the SPI error log for a managed node by using the OASSPI Admin → View Error Log tool. The error message can be identified by the date/time stamp 2. If the UDM_DEFINITIONS_FILE property is missing from the OASSPI configuration file, run the OASSPI Admin → Configure OASSPI tool and set the value for this property. 3. If the problem is with the metric definitions file (`MetricDefinitions.xml`) that is shipped with the SPI for Oracle Application Server, then reinstall the SPI for Oracle Application Server. Run the OASSPI Admin → Configure OASSPI tool. 4. If the problem is with a user-defined metric definitions file that is not shipped with the SPI for Oracle Application Server, verify that this XML file adheres to the `MetricDefinitions.dtd` specification. Refer to the 'SPI for Oracle Application Server Configuration Guide' for more information on writing user-defined metrics. Reinstall your user-defined metric definition file. Run the OASSPI Admin → Configure OASSPI tool and verify that the UDM_DEFINITIONS_FILE property in the SPI configuration, is specified correctly. 5. If the underlying error is `'ClassNotFound'` , this is an internal error. Report the problem to HP support.

WASSPI-5

Description	Error processing metric <*metric_number*> .
Severity	Major
Help Text	Probable Cause An error occurred while trying to collect data or perform calculations for the specified metric. Potential Impact : NA Suggested Action Refer to the text following the error message in the OASSPI error log to help identify the underlying cause of the problem. The error messages previous to this one may also provide more information about the problem. You can view the OASSPI error log for a managed node by using the OASSPI Admin → View Error Log tool. The error message can be identified by the date/time stamp.

WASSPI-6

Description	Required property <*property_name*> is missing from the OAS SPI configuration.
Severity	Major
Help Text	Probable Cause The specified required property is missing from the OAS SPI configuration file. Potential Impact : NA Suggested Action 1. Run the OASSPI Admin → Configure OASSPI tool. Verify that you have specified the correct server information for the Oracle Application Servers on this managed node. 2. Verify the property is specified correctly in the OASSPI configuration file (`/var/opt/OV/conf/oasspi/SiteConfig` on Unix platforms or `%OvAgentDir%\wasspi\\oas\\conf\\SiteConfig` on Windows platforms) on the managed node in question.

WASSPI-7

Description	Unable to contact server <*server_name*> at url=<*URL*> , port=<*port*> .
Severity	Major
Help Text	Probable Cause The specified server is not running at the specified port. Potential Impact : NA Suggested Action 1. Run the OASSPI Admin → Configure OASSPI tool. Verify that you have specified the correct server name and port information for the Oracle Application Servers on this managed node. 2. Verify that the property SERVERx_NAME is specified correctly in the OASSPI configuration file (`/var/opt/OV/conf/oasspi/SiteConfig` on Unix platforms or `%OvAgentDir%\wasspi\oas\\conf\SiteConfig` on Windows platforms) on the managed node in question. 3. Verify that the Oracle Application Server is running on the managed node.

WASSPI-8

Description	Error saving graphing or reporting data to file <*file_name*> .
Severity	Critical
Help Text	Probable Cause If the error message specifies the reporting data file, the agent on the managed node may be in an inconsistent state. Potential Impact : NA Suggested Action If the error message specifies the reporting data file, the agent on the managed node may be in an inconsistent state. Probable Cause The specified graphing or reporting data file could not be found or an I/O error occurred when trying to access the file. Potential Impact : NA Suggested Action 1. Refer to the text following the error message in the OASSPI error log to help identify the underlying cause of the problem. You can view the SPI error log for a managed node by using the OASSPI Admin → View Error Log tool. The error message can be identified by the date/time stamp. 2. Identify the steps to reproduce the problem. 3. Run the OASSPI Admin → Start Tracing tool to turn on tracing. Try to reproduce the problem. 4. Run the OASSPI Admin → Self-Healing Info tool. Contact HP support with the information gathered by this tool.

WASSPI-9

Description	Unable to retrieve property <*property_name*> .
Severity	Critical
Help Text	Probable Cause A required property is missing from one of the Oracle Application Server SPI configuration files. Potential Impact : NA Suggested Action 1. Refer to the text following the error message in the OASSPI error log to help identify the missing property. You can view the SPI error log for a managed node by using the OASSPI Admin → View Error Log tool. The error message can be identified by the date/time stamp. 2. Run the OASSPI Admin → Configure OASSPI tool. Verify that you have specified the correct information for the Oracle Application Servers on the managed node in question. 3. Verify that the missing property is now specified in the OASSPI configuration file (`/var/opt/OV/conf/oasspi/SiteConfig` on Unix platforms or `%OvAgentDir%\wasspi\oas\conf\SiteConfig` on Windows platforms) on the managed node in question.

WASSPI-10

Description	Encountered problem accessing file <*filename*> .
Severity	Critical
Help Text	Probable Cause The specified file could not be found, created, or accessed. This file could be a temporary file. Potential Impact : NA Suggested Action 1. Refer to the text following the error message in the OASSPI error log to help identify the file in question and the underlying cause of the problem. You can view the SPI error log for a managed node by using the OASSPI Admin → View Error Log tool. The error message can be identified by the date/time stamp. 2. Verify that you have enough disk space to create temporary files.

WASSPI-11

Description	No servers have been specified in the OAS SPI configuration file.
Severity	Major
Help Text	Probable Cause The number of Oracle Application Servers specified in the OASSPI configuration file for the managed node in question is 0. Potential Impact : NA Suggested Action 1. Run the OASSPI Admin → Configure OASSPI tool. Verify that you have specified the correct server name and port information for the Oracle Application Servers on this managed node. 2. Verify that the property NUM_SERVERS in the OAS SPI configuration file (`/var/opt/OV/conf/oas/SiteConfig` on UNIX platforms or `/usr/OV/wasspi/oas/conf/SiteConfig` on Windows platforms) is set to the number of Oracle Application Server on this managed node.

WASSPI-12

Description	Opcmon returned an error code of <*error_number*> for the command <*opcmon_command*> .
Severity	Critical
Help Text	Probable Cause A command started by the OASSPI collector has returned an error (non-zero) exit code. Potential Impact : NA Suggested Action 1. Identify the steps to reproduce the problem. 2. Run the OASSPI Admin → Start Tracing tool to turn on tracing. 3. Reproduce the problem. 4. Run the OASSPI Admin → Stop Tracing tool to turn off tracing. 5. Run the OASSPI Admin → Self-Healing Info tool. Contact HP support with the information gathered by this tool.

WASSPI-13

Description	Exception occurred while running an opcmon process.
Severity	Critical
Help Text	Probable Cause The OASSPI data collector attempted to run a process to execute an opcmon call. Either the process could not be created or was interrupted. Potential Impact : NA Suggested Action For Unix systems make sure the kernel configurable parameters NPROC and MAXUPRC are set high enough to allow process creation.

WASSPI-14

Description	Unable to find file <*file_name*> .
Severity	Critical
Help Text	Probable Cause A file required by the OAS SPI data collector could not be found. Potential Impact : NA Suggested Action 1. Refer to the text following the error message in the OASSPI error log to help identify the file in question and the underlying cause of the problem. You can view the SPI error log for a managed node by using the OASSPI Admin → View Error Log tool. The error message can be identified by the date/time stamp. 2. Run the OASSPI Admin → Configure OASSPI tool on this managed node.

WASSPI-15

Description	Error parsing XML document <*file_name*> .
Severity	Critical
Help Text	Probable Cause An error occurred while parsing the specified XML document. Potential Impact : NA Suggested Action 1. Refer to the text following the error message in the OASSPI error log to help identify the underlying cause of the problem. You can view the SPI error log for a managed node by using the OASSPI Admin → View Error Log tool. The error message can be identified by the date/time stamp. 2. If the XML document was provided by the user, correct the document. Refer to the 'SPI for Oracle Application Server Configuration Guide' for more information on writing user-defined metrics. 3. If the XML document is a document that is shipped with the OASSPI, run the OASSPI Admin →Configure OASSPI tool to reinstall the OASSPI configuration files.

WASSPI-16

Description	A bad filter was specified for metric <*metric_number*> .
Severity	Major
Help Text	Probable Cause A metric filter is incorrectly specified in the metric definitions XML document. Potential Impact : NA Suggested Action 1. If the metric is specified in an XML document that was provided by the user, correct the document. Refer to the 'SPI for Oracle Application Server Configuration Guide' for more information about the correct format for a user-defined metric definition document. 2. If the metric is a pre-defined metric that is shipped with the Oracle Application Server SPI, run the OASSPI Admin → Configure OASSPI tool to reinstall the OASSPI configuration files.

WASSPI-18

Description	Error logging to datasource <*datasource_classname*> . Logging process returned exit code <*exit_code*> .
Severity	Critical
Help Text	Probable Cause The ddflog process started by the OAS SPI data collector returned a non-zero error code. Potential Impact : NA Suggested Action 1. Identify the steps to reproduce the problem. 2. Run the OASSPI Admin → Start Tracing tool to turn on tracing. Try to reproduce the problem. 3. Run the OASSPI Admin → Self-Healing Info tool. Contact HP support with the information gathered by this tool.

WASSPI-19

Description	Encountered problem instantiating XSLT transformer with <*file_name*> .
Severity	Major
Help Text	Probable Cause The XSL document that specifies the auto action report output contains errors. Potential Impact : NA Suggested Action Run the OASSPI Admin → Configure OASSPI tool with the managed node selected.

WASSPI-20

Description	Encountered problem creating report for metric <*metric_number*> .
Severity	Major
Help Text	Probable Cause An error occurred while producing a text report for the specified metric. Potential Impact : NA Suggested Action Run the OASSPI Admin → Configure OASSPI tool with the managed node selected.

WASSPI-21

Description	Encountered problem instantiating factory implementation '<*class name*> .'
Severity	Critical
Help Text	Probable Cause The java property specifying the class name is incorrect or the class does not implement the AppServerFactory interface. Potential Impact : NA Suggested Action Verify java property, appserver.implementation is set to the fully qualified name of the class which implements the AppServerFactory interface. For example, if set on the java command-line: `-Dappserver.implementation=com.hp.openview.wasspi.OASAppServerFactory.`

WASSPI-23

Description	Error initializing collector analyzer for server <*server_name*> .
Severity	Critical
Help Text	Probable Cause An exception was encountered while preparing to monitor server <*server_name*> . Potential Impact : NA Suggested Action 1. Refer to the text following the error message in the OASSPI error log to help identify the underlying cause of the problem. You can view the SPI error log for a managed node by using the OASSPI Admin → View Error Log tool. The error message can be identified by the date/time stamp. 2. Identify the steps to reproduce the problem. 3. Run the OASSPI Admin → Start Tracing tool to turn on tracing. Try to reproduce the problem. 4. Run the OASSPI Admin → Self-Healing Info tool. Contact HP support with the information gathered by this tool.

WASSPI-24

Description	Error logging in to server <*server_name*> with login <*login*> .
Severity	Critical
Help Text	Probable Cause A security exception occurred while logging in to server <*server_name*> . Potential Impact : NA Suggested Action 1. Run the OASSPI Admin → Configure OASSPI tool on the managed node on which the error occurred and verify that you have specified the correct login and password properties. 2. Verify the login has appropriate permissions.

WASSPI-26

Description	The data logging process for <*server_name*> timed-out.
Severity	Major
Help Text	Probable Cause Depending on your configuration, either HPPA or CODA failed to exit before the time-out. Potential Impact : NA Suggested Action 1. Restart HPPA using command **`mwa restart`** . 2. Restart CODA using command **`opcagt -start`** .

WASSPI-27

Description	RMI collector unable to process <*command*> .
Severity	Warning
Help Text	Probable Cause An exception was encountered while performing an rmid related operation. Potential Impact : NA Suggested Action 1. Refer to the text following the error message in the OASSPI error log to help identify the underlying cause of the problem. You can view the SPI error log for a managed node by using the OASSPI Admin → View Error Log tool. The error message can be identified by the date/time stamp. 2. Identify the steps to reproduce the problem. 3. Run the OASSPI Admin → Start Tracing tool to turn on tracing. Try to reproduce the problem. 4. Run the OASSPI Admin → Self-Healing Info tool. Contact HP support with the information gathered by this tool.

WASSPI-28

Description	RMID on port <*port*> has been <*status*> .
Severity	Normal
Help Text	Probable Cause : NA Potential Impact : NA Suggested Action : NA

WASSPI-29

Description	Collector server <*server id*> for Java home <*path*> has been started.
Severity	Normal
Help Text	Probable Cause : NA Potential Impact : NA Suggested Action : NA

WASSPI-30

Description	Failed to start <*rmid_path*> on port <*port*> .
Severity	Critical
Help Text	Probable Cause The specified port is already in use. Potential Impact : NA Suggested Action Run the OASSPI Admin → Configure OASSPI tool. Set the RMID_PORT property to a port number which is not currently in use.

WASSPI-31

Description	Lost connection to RMI collector while processing <*command*> .
Severity	Warning
Help Text	Probable Cause : NA Potential Impact : NA Suggested Action : NA

WASSPI-32

Description	Unable to retrieve metadata for mbean <*JMX-ObjectName*> .
Severity	Warning
Help Text	Probable Cause : NA Potential Impact : NA Suggested Action : NA

WASSPI-33

Description	No actions matched server <*server_name*> , version <*version*> .
Severity	Warning
Help Text	Probable Cause JMXAction elements define FromVersion and ToVersion tags which do not match the server version. Potential Impact : NA Suggested Action If the action is valid on the server, then either adjust the JMXAction definition's FromVersion/ToVersion elements or the server's VERSION property.

WASSPI-34

Description	Metric <*metric_id*> does not define any actions.
Severity	Warning
Help Text	Probable Cause The metric ID specified with the -m option does not define a JMXActions element. Potential Impact : NA Suggested Action Correct the -m option if an incorrect metric ID was specified. Otherwise, add a JMXActions definition to the metric definition.

WASSPI-35

Description	Error executing action <*action_command-line*> .
Severity	Major
Help Text	Probable Cause An unexpected error occurred while executing the action. Potential Impact : NA Suggested Action View the managed node's errorlog to determine the root cause which is logged following the error message.

WASSPI-36

Description	MBean <*JMX_objectname*> on server <*server_name*> does not expose operation <*operation_name*> .
Severity	Warning
Help Text	Probable Cause An action's JMXCalls element defines an operation not exposed by the specified MBean. Potential Impact : NA Suggested Action Correct the JMXCalls element or remove the operation from the element.

WASSPI-37

Description	MBean <*JMX_objectname*> on server <*server_name*> does not expose attribute <*attribute_name*> for write.
Severity	Warning
Help Text	Probable Cause An action's JMXCalls element defines a write attribute exposed by the specified MBean as read-only. Potential Impact : NA Suggested Action If it's a custom MBean, update the MBean's management interface so the attribute is writable, otherwise remove the attribute definition from the JMXCalls element.

WASSPI-38

Description	MBean <*JMX_objectname*> on server <*server_name*> does not expose attribute <*attribute_name*> .
Severity	Warning
Help Text	Probable Cause An action's JMXCalls element defines an attribute not exposed by the specified MBean ObjectName. Potential Impact : NA Suggested Action Correct the JMXCalls element or remove the attribute from the element.

WASSPI-39

Description	Error invoking operation <*operation_name*> on MBean <*JMX_objectname*>.
Severity	Major
Help Text	Probable Cause An unexpected error occurred while invoking an operation on the specified MBean. The managed resource may have thrown an exception. Potential Impact : NA Suggested Action View the managed node's errorlog to determine the root cause which is logged following the error message.

WASSPI-40

Description	Error setting attribute <*attribute_name*> on MBean <*JMX_objectname*> .
Severity	Major
Help Text	Probable Cause An unexpected error occurred while setting an attribute on the specified MBean. The managed resource may have thrown an exception. Potential Impact : NA Suggested Action View the managed node's errorlog to determine the root cause which is logged following the error message.

WASSPI-41

Description	Error getting attribute <*attribute_name*> from MBean <*JMX_objectname*> .
Severity	Major
Help Text	Probable Cause An unexpected error occurred while getting an attribute from the specified MBean. The managed resource may have thrown an exception. Potential Impact : NA Suggested Action View the managed node's errorlog to determine the root cause which is logged following the error message.

WASSPI-42

Description	Error running command <*command*> .
Severity	Critical
Help Text	Probable Cause A command started by the OAS-SPI collector reported an error. Potential Impact : NA Suggested Action 1. Identify the steps to reproduce the problem. 2. Run the OASSPI Admin → Start Tracing tool to turn on tracing. 3. Reproduce the problem. 4. Run the OASSPI Admin → Stop Tracing tool to turn off tracing. 5. Run the OASSPI Admin → Self-Healing Info tool. Contact HP support with the information gathered by this tool.

WASSPI-43

Description	Error publishing event <*event-type*> .
Severity	Major
Help Text	Probable Cause An unexpected error occurred while a publisher was handling a metric or collect event. Potential Impact : NA Suggested Action View the managed node's errorlog to determine the root cause which is logged following the error message.

WASSPI-201

Description	File <*filename*> not found.
Severity	Critical
Help Text	Probable Cause A configuration file could not be found. Potential Impact : NA Suggested Action Run the OASSPI Admin → Configure OASSPI tool. Verify that the correct information has been specified for the Oracle Application Servers on the managed node on which the error occurred.

WASSPI-202

Description	Cannot read file <*filename*> .
Severity	Critical
Help Text	Probable Cause 1. A file could not be opened or it could not be found. 2. Permissions may be incorrect or a directory may be corrupt. Potential Impact : NA Suggested Action 1. Run the OASSPI Admin → Configure OASSPI tool. Verify that you have specified the correct information for the Oracle Application Servers on the managed node on which the error occurred. 2. Verify that the permissions are correct for the HP Operations agent user to read this file.

WASSPI-203

Description	Cannot write file <*filename*> .
Severity	Critical
Help Text	Probable Cause Permissions may be incorrect or a file or directory may be corrupt. Potential Impact : NA Suggested Action 1. Run the OASSPI Admin → Configure OASSPI tool. Verify that you have specified the correct information for the Oracle Application Servers on the managed node on which the error occurred. 2. Verify that the permissions are correct for the HP Operations agent user to write this file.

WASSPI-204

Description	Error sending opcmsg <*message*> .
Severity	Critical
Help Text	Probable Cause There was a problem running opcmsg . opcmsg may be missing or not have permissions to execute (HPOM installation errors) or the system process table may be full. Potential Impact : NA Suggested Action Confirm that the OASSPI-Messages policy has been deployed on the managed node.

WASSPI-205

Description	Error sending opcmsg <*command*> .
Severity	Critical
Help Text	Probable Cause There was a problem running opcmon. opcmon may be missing or not have permissions to execute (HPOM installation errors) or the system process table may be full. Potential Impact : NA Suggested Action Confirm that HPOM is properly installed and deployed to the managed node. Ensure that the process table is not full. If it is, consider having the system administrator increase it.

WASSPI-206

Description	Cannot read directory <*directory*> .
Severity	Critical
Help Text	Probable Cause The permissions on the directory prevent the HPOM user from reading it or the directory is corrupt. Potential Impact : NA Suggested Action Verify that the permissions are correct for the HPOM user for this directory.

WASSPI-208

Description	Cannot move <*filename*> to <*filename*> .
Severity	Critical
Help Text	Probable Cause 1. Insufficient permissions. 2. Insufficient disk space. 3. File table problems. Potential Impact : NA Suggested Action 1. Verify that the permissions are correct for the HP Operations agent user. 2. Verify that there is enough disk space to create files. 3. Run the OASSPI Admin → Configure OASSPI tool.

WASSPI-208

Description	The SPI must be configured before it can be used.
Severity	Critical
Help Text	Probable Cause The OAS SPI has not been configured on this node. Potential Impact : NA Suggested Action 1. Run the OASSPI Admin → Configure OASSPI tool. Verify that you have specified the correct information for the Oracle Application Servers on the managed node on which the error occurred. 2. Run the OASSPI Admin → Verify tool on the managed node to confirm that the SPI has been successfully configured.

WASSPI-209

Description	Cannot contact Oracle Application Server.
Severity	Critical
Help Text	Probable Cause 1. The server could be down or not responding. 2. The SPI may be configured incorrectly. Potential Impact : NA Suggested Action 1. Verify that the Oracle Application Server is up and running properly. 2. Run the OASSPI Admin → Configure OASSPI tool. 3. Run the OASSPI Admin → Verify tool on the managed node to confirm that the SPI has been successfully configured.

WASSPI-210

Description	Cannot configure OAS SPI.
Severity	Critical
Help Text	Probable Cause The SPI configuration process failed. Potential Impact : NA Suggested Action 1. Refer to the text following the error message in the Oracle Application Server SPI error log to help identify the underlying cause of the problem. The error messages previous to this one will provide more information about the problem. You can view the SPI error log for a managed node by using the OASSPI Admin → View Error Log tool. The error message can be identified by the date/time stamp 2. Run the OASSPI Admin → Configure OASSPI tool.

WASSPI-211

Description	Cannot create directory <*directory*>.
Severity	Critical
Help Text	Probable Cause There are insufficient permissions for the HP Operations agent user to create the directory or there is insufficient disk space. Potential Impact : NA Suggested Action 1. Verify that the permissions are correct for the HP Operations agent user for this directory. 2. Verify that there is enough disk space.

WASSPI-213

Description	Improper parameters to program <*name*> . Usage: <*usage*> .
Severity	Critical
Help Text	Probable Cause The parameters to the program are incorrect. Potential Impact : NA Suggested Action Correct the parameters.

WASSPI-214

Description	Cannot run program <*program_name*> .
Severity	Critical
Help Text	Probable Cause The program failed to run. It may be missing, permissions may be incorrect, the process table may be full. Potential Impact : NA Suggested Action 1. Verify that the file exists. If it is a SPI program and the file is missing, run the OASSPI Admin → Configure OASSPI tool with the managed node selected. 2. Verify that the permissions are correct for the HP Operations agent user.

WASSPI-216

Description	Configuration variable <*name*> missing for server <*server_name*> .
Severity	Critical
Help Text	Probable Cause A required SPI configuration variable was not found. Potential Impact : NA Suggested Action 1. Run the OASSPI Admin → Configure OASSPI tool. 2. Verify that the correct information has been specified in the configuration for the managed node on which the error occurred.

WASSPI-218

Description	Oracle Application Server monitoring has been turned OFF for <*server_name*> .
Severity	Warning
Help Text	Probable Cause Collection has been turned off for the specified server. Potential Impact : NA Suggested Action If desired, collection can be turned on by running the OASSPI Admin → Start Monitoring tool.

WASSPI-219

Description	Oracle Application Server monitoring has been turned ON for <*server_name*> .
Severity	Critical
Help Text	Probable Cause Collection has been turned on for the specified server. Potential Impact : NA Suggested Action If desired, collection can be turned off by running the OASSPI Admin → Stop Monitoring tool.

WASSPI-221

Description	<*filename*> does not exist.
Severity	Critical
Help Text	Probable Cause The specified file does not exist. If it is a log file, no entries have ever been logged to it. If it is a property file, then it has not been configured. Potential Impact : NA Suggested Action ■ Log files: If there have never been any entries written to the file, no action is necessary. Otherwise, run the OASSPI Admin → Configure OASSPI tool. ■ Property files: Run the OASSPI Admin → Configure OASSPI tool.

WASSPI-222

Description	<*filename*> is empty.
Severity	Critical
Help Text	Probable Cause The specified file is empty. If it is a log file, no entries have ever been logged to it, or the entries have been cleaned out. If it is a property file, then it is not properly configured. Potential Impact : NA Suggested Action If the file is a configuration file, run the OASSPI Admin → Configure OASSPI tool.

WASSPI-223

Description	Cannot read <*filename*> .
Severity	Critical
Help Text	Probable Cause 1. A file could not be opened or it could not be found. 2. Permissions may be incorrect or a directory may be corrupt. Potential Impact : NA Suggested Action 1. Run the OASSPI Admin → Configure OASSPI tool. Verify that you have specified the correct information for the Oracle Application Servers on the managed node on which the error occurred 2. Verify that the permissions are correct for the HP Operations agent user to read this file.

WASSPI-224

Description	ddfcomp returned an error configuring <*name*> .
Severity	Warning
Help Text	Probable Cause ddfcomp returned an error. This could be because neither HPPA nor CODA is installed on the system or because an error occurred while configuring the performance agent. Potential Impact : NA Suggested Action 1. If the performance agent is not installed, this error can be ignored. 2. Otherwise, identify the steps to reproduce the problem. 3. Run the OASSPI Admin → Start Tracing tool to turn on tracing. Try to reproduce the problem. 4. Run the OASSPI Admin → Self-Healing Info tool. Contact HP support with the information gathered by this tool.

WASSPI-225

Description	No logfiles were found. Did you run OASSPI Config?
Severity	Critical
Help Text	Probable Cause The logfile list is empty. Potential Impact : NA Suggested Action Run the OASSPI Admin → Configure OASSPI tool.

WASSPI-226

Description	Cannot read file <*filename*> .
Severity	Critical
Help Text	Probable Cause 1. A file could not be opened or it could not be found. 2. Permissions may be incorrect or a directory may be corrupt. Potential Impact : NA Suggested Action 1. Run the OASSPI Admin → Configure OASSPI tool. 2. Verify that you have specified the correct information for the Oracle Application Server on the managed node on which the error occurred. 3. Verify that the permissions are correct for the HP Operations agent user to read this file.

WASSPI-227

Description	HPPA is not installed. Data source will not be configured.
Severity	Warning
Help Text	Probable Cause If HPPA is available, the SPI will integrate with it. This warning indicates that none is available. Potential Impact : NA Suggested Action If you should have HPPA installed, verify that it is installed correctly and is running; reinstall it if necessary. Otherwise, this message can be ignored.

WASSPI-228

Description	ddflog returned an error logging <*logfile-name*> : <*system-error-msg*>
Severity	Critical
Help Text	Probable Cause The agent on the managed node may be in an inconsistent state. Potential Impact : NA Suggested Action Restart the agent on the managed node. Probable Cause ddflog returned an error. This could be because the SPI was not properly configured to support logging performance data. Potential Impact : NA Suggested Action 1. Redeploy SPI for Oracle Application Server and SPI Data Collector instrumentation on the node having the problem. 2. Otherwise, examine the system error message, if any, for clues to the problem. 3. Run the OASSPI Admin → Start Tracing tool to turn on tracing. Try to reproduce the problem. 4. Run the OASSPI Admin → Self-Healing Info tool. Contact HP support with the information gathered by this tool.

WASSPI-229

Description	Cannot connect to directory <*directory_name*>
Severity	Critical
Help Text	Probable Cause The directory does not exist, or the user the agent is running under does not have appropriate permissions to the directory. Potential Impact : NA Suggested Action Run the OASSPI Admin → Configure OASSPI tool.

WASSPI-230

Description	Cannot get lock <*file*> after <*time*>
Severity	Critical
Help Text	Probable Cause The lock file <*file*> was not cleared in the <*time*> indicated. This could be due to a very slow running or hung SPI process. Also could be a SPI process that had a lock and was killed before the lock it had open had been cleared. Potential Impact : NA Suggested Action Make sure no SPI processes are running. Manually remove the lock file.

WASSPI-231

Description	Error starting JRE <*JVM_file*> : <*message*>
Severity	Critical
Help Text	Probable Cause Some error occurred starting or running Java. This could be that the specified JVM does not exist, or that the collector had some error. The JAVA_HOME variable in the SPI configuration is not set correctly. Potential Impact : NA Suggested Action Check for other errors generated at the same time, they may indicate the real cause. If the specified file does not exist, check your JAVA_HOME or HOME variables in the SPI configuration.

WASSPI-232

Description	Server <*name*> specified on command line, but not in configuration.
Severity	Critical
Help Text	Probable Cause There was a -i or -e specified on the collector command line which specified a server name that was not listed in the SPI configuration. The collector only knows about servers listed in the configuration file. Potential Impact : NA Suggested Action 1. Specify a correct server name on the command line. 2. Run the OASSPI Admin → Configure OASSPI tool. 3. Verify the Oracle Application Server names are correctly listed and spelled in the SPI configuration. Note that the server name is case-sensitive.

WASSPI-234

Description	Error running program <*file*> , return value: <*n*> .
Severity	Critical
Help Text	Probable Cause The SPI attempted to run some tool or auxiliary program and encountered an error doing so. The tools or program is shown in the message as <*file*> and the return code from attempting to run it is shown as <*n*> . Potential Impact : NA Suggested Action If the tool is a SPI tool, make sure the SPI has been installed and configured correctly. If not, reinstall or reconfigure. If it is a system tool, ensure that there are no system problems that prevent the tool from running.

WASSPI-235

Description	Restart of HPPA failed.
Severity	Warning
Help Text	Probable Cause The SPI attempted to automatically restart HPPA and the automatic attempt failed. Potential Impact : NA Suggested Action Restart HPPA manually with the **`mwa restart server`** command.

WASSPI-236

Description	Failure when running XSLT on <*xml*> with stylesheet <*xsl*> :<message>.
Severity	Critical
Help Text	Probable Cause As part of setting up graphing for user defined metrics, the UDM XML is translated. This message indicated that the translation failed for some reason. Potential Impact : NA Suggested Action Review the message shown. It is most likely that there is an error in the XML.

WASSPI-237

Description	This is an informational message that an HPPM or HPPA datasource was set up.
Severity	Normal
Help Text	Probable Cause : NA Potential Impact : NA Suggested Action : NA

WASSPI-241

Description	Cannot delete file <*file*> .
Severity	Critical
Help Text	Probable Cause The SPI attempted to delete a file, but was unable to do so. It may be that the protection of the file is set so that the HP Operations agent user cannot delete it, or that there is some system problem preventing the file from being deleted. Potential Impact : NA Suggested Action Make sure the protection of the file is correct.

WASSPI-601

Description	Retrieving OAS SPI configuration in HPOM management server
Severity	Normal
Help Text	Probable Cause The managed node has requested a copy of the master SiteConfig file. Potential Impact : NA Suggested Action : NA

WASSPI-602

Description	Updating OAS-SPI configuration in HPOM management server
Severity	Normal
Help Text	Probable Cause This is a normal operation performed by the discovery application. If the operation is successful, the entry in the “A” (action) column for this message changes from “R” (running) to “S” (success). Potential Impact : NA Suggested Action If the operation is not successful, the entry in the “A” (action) column for this message changes from “R” (running) to “F” (fail). Select this node and run the Discover OracleAS application. If the problem persists, configure the OAS-SPI manually.

WASSPI-603

Description	Updated OracleAS SPI configuration in HPOM management server
Severity	Normal
Help Text	Probable Cause The discovery application has discovered some OracleAS instances on the manged node. It has updated the OAS SPI configuration on the HPOM management server. Potential Impact : NA Suggested Action : NA

WASSPI-604

Description	OracleAS Discovery Failed
Severity	Critical
Help Text	Probable Cause ■ OracleAS was not installed on the managed node. ■ There are no OracleAS instances running on the managed node. ■ Discovery needs more information to find all OracleAS instances running on the managed node. ■ The OAS SPI does not have the correct configuration information for the OracleAS instances Potential Impact : NA Suggested Action Install OracleAS or verify that OracleAS is installed on the managed node. ■ Make sure that all OracleAS instances you want to monitor are up and running before running the Discover OracleAS application. Discovery only finds OracleAS instances that are running. Verify the servers are running from the OracleAS Control Console. ■ Run the Configure OASSPI application (be sure to select the managed node before starting the tool) and set the HOME_LIST property. Then, run the Discover OracleAS tool. ■ Verify the information set for the following properties: LOGIN, PASSWORD, NAME, and HOME_LIST. If you modify information for any of these properties, run the Discover OracleAS tool. If the problem persists, configure the OAS SPI manually. If manual configuration fails, run the Self-Healing Info tool accessed from the OASSPI Admin tools group. Contact your HP support representative with the gathered information.

WASSPI-605

Description	Could not find OAS home directory: <*directory*>
Severity	Critical
Help Text	Probable Cause The specified directory was set in the HOME_LIST property but the directory does not exist. Potential Impact : NA Suggested Action 1. Verify that the directory exists on the managed node. 2. Use the Configure OASSPI tool to verify that the HOME_LIST property contains the specified directory and modify the value. 3. Run the Discover OracleAS tool.

WASSPI-606

Description	OracleAS version not found
Severity	Critical
Help Text	Probable Cause The OraclesAS version string was not found. OracleAS may not be installed on the managed node. Potential Impact : NA Suggested Action Install OracleAS or verify that OracleAS is installed on the managed node.

WASSPI-607

Description	Windows Registry Error
Severity	Normal
Help Text	Probable Cause ■ The Oracle Application Server installation may have failed. ■ Oracle Application Server might not be installed. Potential Impact : NA Suggested Action : NA

WASSPI-608

Description	`wasspi_oas_discovery.pl` : Command not found: `D:\product\10.1.3\OracleAS/dcm/bin/dcmctl.bat` missing
Severity	Warning
Help Text	Probable Cause The specified directory does not exist. Potential Impact : NA Suggested Action 1. Refer to the text following the error message in the OASSPI error log to help identify the problem. You can view the SPI error log for a managed node by using the OASSPI Admin → View Error Log tool. The error message can be identified by the date/time stamp. 2. Identify the steps to reproduce the problem. 3. Run the OASSPI Admin → Start Tracing tool to turn on tracing. Try to reproduce the problem. 4. Run the OASSPI Admin → Self-Healing Info tool. Contact HP support with the information gathered by this tool.

WASSPI-609

Description	Command Failed
Severity	Normal
Help Text	Probable Cause ■ Oracle Application Server might not be installed. ■ The command or script failed with a non-zero exit code. Potential Impact : NA Suggested Action : NA

WASSPI-610

Description	XML Parse Error
Severity	Normal
Help Text	Probable Cause The wasspi_oas_XMLParser may be missing or the xml may be malformed Potential Impact : NA Suggested Action : NA

WASSPI-611

Description	Discovery Error
Severity	Normal
Help Text	Probable Cause Discovery failed, see the errorlog and the `wasspi_oas_discovery.trc` files on the managed Potential Impact : NA Suggested Action : NA

All other errors

Description	OTHER
Severity	Warning
Help Text	Suggested Action 1. Refer to the text following the error message in the OASSPI error log to help identify the problem. You can view the SPI error log for a managed node by using the OASSPI Admin →View Error Log tool. The error message can be identified by the date/time stamp. 2. Identify the steps to reproduce the problem. 3. Run the OASSPI Admin → Start Tracing tool to turn on tracing. Try to reproduce the problem. 4. Run the OASSPI Admin → Self-Healing Info tool. Contact HP support with the information gathered by this tool.

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