

# HP Operations Smart Plug-in for Oracle Application Server

for HP Operations Manager for Linux

Software Version: 7.01

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## Reference Guide

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# 1 Oracle Application Server Metrics

This guide contains Oracle AS SPI information for HP Operations Manager for UNIX version 9.00 and HP Operations Manager for Linux version 9.01.

This chapter provides detailed and summary listings of the HP Operations Smart Plug-in for Oracle Application Server (Oracle AS SPI) metrics. The metric descriptions will help you interpret the incoming Oracle AS SPI data. You can use this information for customizing metric templates.

The chapter contains the following sections:

- [Metric Summary](#)
- [Metric Details](#)

## Metric Summary

Oracle AS SPI metric templates have pre-defined settings that simplify setup tasks for the Oracle AS SPI. However, you may want to customize these settings depending on your environment. This section and [Metric Details](#) on page 17 provides basic information required for such customizations.

The summary list provides a list of metrics and most basic information for each metric. Following the metric summary table are individual metric details for every Oracle Application Server metric and, when available, its monitor template settings. Monitor settings does not exist for metrics used for reporting or graphing only, hence the setting is labeled 'N/A' (not applicable).

The column key for the Metric Summary sheet is listed in [Table 1](#).

**Table 1 Metric Summary Sheet: Columns Key**

<b>Metric Number</b>	The number assigned to the metric; for example 25 = C025. Numbers in the 200 range are for drill down metrics that collect values on a single instance of Oracle AS; for example 225 = C225.
<b>Metric Name</b>	The metric name in abbreviated form; for example, EJBTranRbPct = EJB Transaction Rollback Percent.
<b>Description</b>	What the collected metric value represents.
<b>Avail. Oracle AS Version</b>	Oracle Application Server version in which the metric is available. For example, version 10gR1(9.0.4), 10gR2 (10.1.2), or 10gR3 (10.1.3).

**Table 1 Metric Summary Sheet: Columns Key**

<b>Type</b>	The purpose for which the metric is collected: A = Alarming R = Reporting G = Graphing
<b>Severity</b>	The severity of the exceeded threshold condition (Critical, Major, Minor, Warning, Normal).
<b>Area</b>	The logical area of Oracle Application Server in which the metric belongs.

**Table 2 Metric Summary**

<b>Number</b>	<b>Metric Name</b>	<b>Description</b>	<b>Avail. OAS Version</b>	<b>Type</b>	<b>Severity</b>	<b>Area</b>
1	C001_ServerStatus	Status of the server	All	AR	Critical	Availability
5	C005_JVMMemUtilPct	Percentage of heap space used in the JVM	All	GA	Critical Major	JVM (OC4J)
10	C010_CPUUtilPct	Percentage of CPU time utilized by the OHS server	All	GRA	Critical Warning	Process
11	C011_MemoryUtilPct	Percentage of the physical memory utilized over the collection interval	All	GRA	Critical Warning	Process
20	C020_EJBClientActiveThreads	Total number of EJB client active threads accessing the actual implementation of all methods for the entire server	All	GR		EJB (OC4J)



**Table 2 Metric Summary**

<b>Number</b>	<b>Metric Name</b>	<b>Description</b>	<b>Avail. OAS Version</b>	<b>Type</b>	<b>Severity</b>	<b>Area</b>
220	C220_EJBClientActiveThreads	Number of client active threads accessing the actual implementation of an EJB method	All	RA	Warning	EJB (OC4J)
21	C021_EJBClientAvgExecTime	Average time of EJB method clients spent inside the actual implementations of all methods (msec)	All	GR		EJB (OC4J)
221	C221_EJBClientAvgExecTime	Average time spent inside the actual implementation of a specific EJB method (msec)	All	RA	Major Warning	EJB (OC4J)
22	C022_EJBClientCallsPerMinute	Total number of requests processed by the actual implementation of all EJB methods over the collection interval (per minute)	All	GR		EJB (OC4J)
222	C222_EJBClientCallsPerMinute	Total number of requests processed by the actual implementation of methods for each EJB over the collection interval (per minute)	All	RA	Warning	EJB (OC4J)

**Table 2 Metric Summary**

<b>Number</b>	<b>Metric Name</b>	<b>Description</b>	<b>Avail. OAS Version</b>	<b>Type</b>	<b>Severity</b>	<b>Area</b>
30	C030_EJBWrapActThrds	Total number of EJB active threads accessing the automatically generated wrapper of all methods for the entire server	All	GR		EJB (OC4J)
230	C230_EJBWrapActThrds	Number of active threads accessing the automatically generated wrapper of an EJB method	All	RA	Warning	EJB (OC4J)
31	C031_EJBWrpAvExecTim	Average time spent inside the automatically generated wrapper of all EJB methods (msec)	All	GR		EJB (OC4J)
231	C231_EJBWrpAvExecTim	Average time spent inside the automatically generated wrapper of a specific EJB method (msec)	All	RA	Major Warning	EJB (OC4J)
32	C032_EJBWrpCallProcRt	Total number of requests processed by the automatically generated wrapper of all EJB methods over the collection interval (per minute)	All	GR		EJB (OC4J)

**Table 2 Metric Summary**

<b>Number</b>	<b>Metric Name</b>	<b>Description</b>	<b>Avail. OAS Version</b>	<b>Type</b>	<b>Severity</b>	<b>Area</b>
232	C232_EJBWrpCallPrcRt	Total number of requests processed by the automatically generated wrapper of methods for each EJB over the collection interval (per minute)	All	RA	Warning	EJB (OC4J)
240	C240_SrvltAvgExecTim	Average time spent on the servlet's service() call (msec) over the collection interval	All	RA	Major Warning	Servlet (OC4J)
241	C241_SrvltExecTime	Total time spent on the servlet's service() call (msec) over the collection interval	All	R		Servlet (OC4J)
42	C042_SrvltActThreads	Total number of threads servicing all servlets	All	GR		Servlet (OC4J)
245	C245_JSPAvgExecTime	Average time to serve a JSP (msec) over the collection interval	All	RA	Major Warning	JSP (OC4J)
246	C246_JSPExecTime	Total time to serve a JSP (msec) over the collection interval	All	R		JSP (OC4J)

**Table 2 Metric Summary**

<b>Number</b>	<b>Metric Name</b>	<b>Description</b>	<b>Avail. OAS Version</b>	<b>Type</b>	<b>Severity</b>	<b>Area</b>
47	C047_JSPActRequests	Total number of active requests for all JSPs	All	GR		JSP (OC4J)
247	C247_JSPActRequests	Current number of active requests for the JSP	All	RA	Warning	JSP (OC4J)
50	C050_JMSConnCreated	Frequency of the JMS connections created over the collection interval	All	GRA	Critical	JMS (OC4J)
251	C251_JMSTotalMsgCt	Total number of JMS messages contained in the message store	All	RA	Critical	JMS (OC4J)
260	C260_JDBCcacheMissPct	Percentage of failed connection requests	All	RA	Major Warning	JDBC (OC4J)
280	C280_WebCntxtAvRqPrc	Average time spent servicing web modules per request processed over the collection interval (msec)	All	GRA	Major Warning	Web Context (OC4J)
281	C281_WebCntxtActSess	Current number of active sessions for a web module within an application	All	GRA	Warning	Web Context (OC4J)
100	C100_HTTPSvrActConn	Number of active HTTP connections	All	GRA	Warning	HTTP (OHS)

**Table 2 Metric Summary**

<b>Number</b>	<b>Metric Name</b>	<b>Description</b>	<b>Avail. OAS Version</b>	<b>Type</b>	<b>Severity</b>	<b>Area</b>
108	C108_HTTPAvgRespSzRq	Average size of the response data (KB) per request completed by the HTTP server	All	GR		HTTP (OHS)
109	C109_HTTPVHAvspSzRq	Average size of the response data (KB) per request completed by the HTTP server virtual host	All	GR		HTTP (OHS)
340	J340_SrvltAvgExecTim	Average response time of a servlet (in msec) over the collection interval	10gR3		Warning Threshold	Servlets
233	J233_StlesSsnBnPUtil	Indicates Utilization of Stateless Session Bean Pool	10gR3		Major Warning	JDBC
234	J234_StfulSsnBnPUtil	Indicates Utilization of Stateful Session Bean Pool	10gR3		Major Warning	JDBC
235	J235_EntityBnPUtil	Indicates Utilization of Entity Bean Pool	10gR3		Major Warning	JDBC
360	J360_JDBConnPoolUtil	Percentage utilization of available JDBC connections in connection pool	10gR3		Critical Major	JDBC

**Table 2 Metric Summary**

<b>Number</b>	<b>Metric Name</b>	<b>Description</b>	<b>Avail. OAS Version</b>	<b>Type</b>	<b>Severity</b>	<b>Area</b>
361	J361_JDBCConPIWtCnt	The number of threads waiting for a connection	10gR3		Critical Major	JDBC
362	J362_JDBCCnPIWtCntSm	The total number of threads waiting for a connection	10gR3		Critical Major	JDBC
364	J364_JDBCAvgWaitTim	Average time spent waiting for a connection (in msec) over the collection interval	10gR3		Critical Major	JDBC
365	J365_JCAConnPoolUtil	Percentage utilization of available JCA connections in connection pool	10gR3		Critical Major	J2EE
366	J366_JCAConPIWtCnt	The number of threads waiting for a connection	10gR3		Critical Major	
367	J367_JCACnPIWtCntSm	The total number of threads waiting for a connection	10gR3		Critical Major	
369	J369_JCAAvgTim	Average time spent waiting for a connection (in msec) over the collection interval	10gR3		Critical Major	
371	J371_TransRollbackRt	Number of transactions rolledback per second	10gR3		Minor	Transaction

## Metric Specification Description

Oracle AS SPI metrics can be identified as CXXX, where XXX represents the number assigned to the metric. The letter 'C' which precedes the metric number designates the metric as an Oracle AS SPI metric.

- Oracle AS SPI metric numbers range from 0000 to 0999.
- The 1000 to 1999 range is reserved for User Defined Metrics.

The name of the metric monitor template associated with the metric begins with "OASSPI" followed by an underscore and the metric number. Zeroes are used to total a four-digit number; for example, metric number C001 = monitor template OASSPI\_0001

The name of the Application Bank reports use the metric number and name separated by an underscore. For example, for metric 5, the report is identified as C005\_JVMMemUtilPct.

**Table 3 Metric Attribute Definitions**

<b>Monitor Template Name</b>	Always begins with "OASSPI," followed by the metric number. Within the monitor template, you can change settings as described in the definition. For example, you can change the settings for threshold value or severity.
<b>Metric Name</b>	The name assigned to the metric.
<b>Metric Type</b>	Shows how the metric is used for: <ul style="list-style-type: none"> <li>• Alarming (using monitor template settings)</li> <li>• Reporting (within a report of HP Reporter)</li> <li>• Graphing (within a graph of HP Performance Manager)</li> </ul>
<b>Description</b>	What the metric represents.
<b>Avail. Oracle AS Version</b>	The Oracle Application Server version for which the metric is available.
<b>Severity: Condition with Threshold</b>	The severity of the exceeded threshold condition (Critical, Major, Minor, Warning, Normal) and default threshold for metrics with parallel monitor templates. If multiple conditions—for example, graduated thresholds—are defined within the metric, severity levels are identified according to the specific condition. Metrics with a threshold value of 0 are set at 0.5 because HPOM alarms must occur at <= or >= values. Since a 0 value would always trigger an alarm, the threshold is set to 0.5.
<b>Collection Interval</b>	The time interval at which the metric is collected and analyzed (5 min, 15 min, 1 hour, 1 time daily).
<b>HPOM Threshold Type</b>	The type of threshold for a monitored value that causes a message to be generated: <ul style="list-style-type: none"> <li>• Minimum - a message is generated if the monitored value equals or drops below the minimum limit.</li> <li>• Maximum - a message is generated if the monitored value equals or exceeds the maximum limit.</li> </ul>

**Table 3 Metric Attribute Definitions**

<b>HPOM Message Generation</b>	Describes how alarms/messages are generated. This setting is omitted because it is the same for all Oracle Application Server metrics (without reset). Message generation without reset generates alarms when the monitoring threshold is exceeded. Alarms are reset automatically when metric values are no longer in violation of the thresholds.
<b>Message Group</b>	The HPOM message group to which the metric belongs: <ul style="list-style-type: none"> <li>• OASSPI = conditions occurring in the Oracle AS SPI</li> <li>• OracleAS= conditions occurring in the Oracle Application Server</li> </ul>
<b>Message Text</b>	The message that appears for each condition.
<b>Instruction Text</b>	Problem-solving information (Probable causes, Potential impact, Suggested actions, and Reports).
<b>Report Type</b>	<p>When a report or graph is available, the method in which it is generated. (Application Bank, Automatic, Operator-initiated, N/A).</p> <ul style="list-style-type: none"> <li>• Application Bank - Reports can be generated from the Application Bank in HPOM and are created for all Oracle OC4J/OHS server instances on the managed node.</li> <li>• Automatic - A report is generated automatically when an event is detected for a single Oracle OC4J/OHS server instance (the instance on which the event is detected).</li> <li>• Operator-initiated - A report or graph manually generated by the operator for the metric whose exceeded threshold generated the message along with other related metric values.</li> <li>• N/A - No report or graph is planned.</li> </ul> <p>All Automatic and Operator-initiated reports are available in the Application Bank. However, not all reports in the Application Bank are Automatic or Operator-initiated. Reports that use MeasureWare-only metrics (no alarms, just MeasureWare data) do not have an HPOM template for Operator-initiated nor Automatic actions. They are <i>only</i> available in the Application Bank.</p>
<b>Area</b>	The logical area to which the metric belongs (Availability, Process, EJB, Servlet, JSP, JMS, JDBC, Web Context, HTTP).



For Oracle AS version 10gR3 onwards, the Oracle AS SPI collects some JSR 77 compliant metrics. These metrics can be identified as JXXX, where XXX denotes the number specified to the metric.

The name of the metric monitor template associated with these metrics begins with "JMXSPI" followed by an underscore and the metric number.



## Metric Details

In this section Oracle AS SPI metrics are explained in detail.

### Metric C001\_ServerStatus

<b>Monitor Template Name</b>	OASSPI_0001
<b>Metric Name</b>	C001_ServerStatus
<b>Metric Type</b>	Alarming and Reporting
<b>Description</b>	Status of the server.
<b>Avail. Oracle AS Version</b>	10gR1, 10gR2
<b>Severity: Condition with Threshold</b>	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
<b>Collection Interval</b>	5 minutes
<b>HPOM Threshold Type</b>	Minimum
<b>Message Group</b>	OracleAS
<b>Message Text</b>	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

<b>Instruction Text</b>	<p>For each server, this metric reports the status of the HTTP server and the OC4J components for the Oracle Application Server (Oracle AS).</p> <p><b>Probable cause:</b> If the server is not in the Alive state, the following events may have occurred:</p> <ol style="list-style-type: none"> <li>1 The server is being initialized, bounced, or restarted.</li> <li>2 The server is being stopped or has been stopped.</li> <li>3 The server has failed to initialize or bounce.</li> <li>4 The server may have gone down for other reasons.</li> </ol> <p><b>Potential Impact:</b> 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 Oracle AS administrator should be notified.</p> <p><b>Suggested action:</b> If the designated server is not running, the Oracle AS 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.</p>
<b>Report Type</b>	N/A
<b>Area</b>	Availability

## Metric C001\_ServerStatus

<b>Monitor Template Name</b>	OASSPI_0001
<b>Metric Name</b>	C001_ServerStatus
<b>Metric Type</b>	Alarming
<b>Description</b>	Status of the server.
<b>Avail. Oracle AS Version</b>	10gR3
<b>Severity: Condition with Threshold</b>	
<b>Collection Interval</b>	
<b>HPOM Threshold Type</b>	
<b>Message Group</b>	
<b>Message Text</b>	
<b>Instruction Text</b>	
<b>Report Type</b>	
<b>Area</b>	OC4J

## Metric C005\_JVMMemUtilPct

<b>Monitor Template Name</b>	OASSPI_0005
<b>Metric Name</b>	C005_JVMMemUtilPct
<b>Metric Type</b>	Alarming, Graphing
<b>Description</b>	Percentage of heap space used in the JVM.
<b>Avail. Oracle AS Version</b>	10gR1, 10gR2, 10gR3
<b>Severity: Condition with Threshold</b>	Critical: OASSPI-0005.1, threshold 98 for 20 minutes Major: OASSPI-0005.2, threshold 95 for 20 minutes
<b>Collection Interval</b>	5 minutes
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	OracleAS
<b>Message Text</b>	OASSPI-0005.x: % of heap space used (<\$VALUE>%) too high (>=<\$THRESHOLD>%)

<b>Instruction Text</b>	<p>The JVM is running out of available heap space.</p> <p><b>Probable cause:</b> The JVM heap size may be set too low for the client load.</p> <p><b>Potential impact:</b> 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.</p> <p>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.</p> <p>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.</p> <p><b>Suggested action:</b> 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 256 MB is advised. If you have additional memory available, a heap size of 512 MB or more is preferred.</p> <p>To change the heap size allocated to the OC4J processes in an OC4J instance, use the procedures outlined in the <i>OracleAS Performance Guide</i> ("Using Application Server Control Console to Change the JVM command Line Options") to set the following Java options:</p> <pre style="text-align: center;">-Xms&lt;size&gt;m -Xmx&lt;size&gt;m</pre> <p>where &lt;size&gt; is the desired Java heap size, in megabytes.</p> <p>For additional details, see the <i>OracleAS Performance Guide</i> ("Setting the JVM Heap Size for OC4J Processes").</p>
<b>Report Type</b>	Automatic
<b>Area</b>	JVM (OC4J)

## Metric C010\_CPUUtilPct

<b>Monitor Template Name</b>	OASSPI_0010
<b>Metric Name</b>	C010_CPUUtilPct
<b>Metric Type</b>	Alarming, Graphing, Reporting
<b>Description</b>	Percentage of the CPU time utilized by the OHS server.
<b>Avail. Oracle AS Version</b>	10gR1, 10gR2, 10gR3
<b>Severity: Condition with Threshold</b>	Critical: OASSPI-0010.1, threshold 98 for 20 minutes Warning: OASSPI-0010.2, threshold 95 for 20 minutes
<b>Collection Interval</b>	5 minutes
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	OracleAS
<b>Message Text</b>	OASSPI-0010.x: % of CPU used (<\$VALUE>%) too high (>=<\$THRESHOLD>%)
<b>Instruction Text</b>	<p><b>Oracle HTTP Server (OHS) Component</b></p> <p>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 <i>Oracle Application Server Enterprise Deployment Guide</i> for more information on setting up different topologies.</p> <p><b>For the OC4J Component</b></p> <p>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 <i>Distributed Configuration Management Administrator's Guide</i> and the <i>Oracle Application Server High Availability Guide</i> for more information.</p>
<b>Report Type</b>	Automatic
<b>Area</b>	Process

## Metric C011\_MemoryUtilPct

<b>Monitor Template Name</b>	OASSPI_0011
<b>Metric Name</b>	C011_MemoryUtilPct
<b>Metric Type</b>	Alarming, Graphing, Reporting
<b>Description</b>	Percentage of the physical memory utilized over the collection interval.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	Critical: OASSPI-0011.1, threshold 98 for 20 minutes Warning: OASSPI-0011.2, threshold 95 for 20 minutes
<b>Collection Interval</b>	5 minutes
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	OracleAS
<b>Message Text</b>	OASSPI-0011.x: % of physical memory used (<\$VALUE>%) too high (>=\$THRESHOLD>%)

<b>Instruction Text</b>	<p><b>Oracle HTTP Server (OHS) Component</b></p> <p>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 <i>Oracle Application Server Enterprise Deployment Guide</i> for more information on setting up different topologies.</p> <p>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 <i>Oracle HTTP Server Administrator's Guide</i> and the <i>Oracle Application Server Performance Guide</i> for more information.</p> <p><b>OC4J Component</b></p> <p>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 <i>Distributed Configuration Management Administrator's Guide</i> and the <i>Oracle Application Server High Availability Guide</i> for more information.</p>
<b>Report Type</b>	Automatic
<b>Area</b>	Process

## Metric C012\_CPUUtilPctHTTP

<b>Monitor Template Name</b>	OASSPI_0012
<b>Metric Name</b>	C012_CPUUtilPctHTTP
<b>Metric Type</b>	Alarming, Graphing, Reporting
<b>Description</b>	Percent of the CPU time utilized by the HTTP server during the collection interval
<b>Avail. Oracle AS Version</b>	10gR2, 10gR3
<b>Severity: Condition with Threshold</b>	
<b>Collection Interval</b>	
<b>HPOM Threshold Type</b>	
<b>Message Group</b>	
<b>Message Text</b>	
<b>Instruction Text</b>	
<b>Report Type</b>	
<b>Area</b>	

## Metric C013\_ServerStatus

<b>Monitor Template Name</b>	OASSPI_0013
<b>Metric Name</b>	C013_ServerStatus
<b>Metric Type</b>	Alarming
<b>Description</b>	Status of the OHS server
<b>Avail. Oracle AS Version</b>	10gR3
<b>Severity: Condition with Threshold</b>	N/A
<b>Collection Interval</b>	N/A
<b>HPOM Threshold Type</b>	N/A
<b>Message Group</b>	N/A
<b>Message Text</b>	N/A



<b>Instruction Text</b>	N/A
<b>Report Type</b>	N/A
<b>Area</b>	OHS

## Metric C014\_ThreadPoolUtil

<b>Monitor Template Name</b>	OASSPI_0014
<b>Metric Name</b>	C014_ThreadPoolUtil
<b>Metric Type</b>	Alarming, Graphing, Reporting
<b>Description</b>	The utilization of available connections in thread pool in percentage
<b>Avail. Oracle AS Version</b>	10gR3
<b>Severity: Condition with Threshold</b>	N/A
<b>Collection Interval</b>	N/A
<b>HPOM Threshold Type</b>	N/A
<b>Message Group</b>	N/A
<b>Message Text</b>	N/A
<b>Instruction Text</b>	N/A
<b>Report Type</b>	
<b>Area</b>	ThreadPool

## Metric C015\_ThreadPoolWaitCnt

<b>Monitor Template Name</b>	OASSPI_0015
<b>Metric Name</b>	C015_ThreadPoolWaitCnt
<b>Metric Type</b>	Alarming, Graphing, Reporting
<b>Description</b>	Number of task(s) waiting in the queue for the availability of a thread
<b>Avail. Oracle AS Version</b>	10gR3
<b>Severity: Condition with Threshold</b>	N/A
<b>Collection Interval</b>	N/A
<b>HPOM Threshold Type</b>	N/A
<b>Message Group</b>	N/A
<b>Message Text</b>	N/A

<b>Instruction Text</b>	N/A
<b>Report Type</b>	N/A
<b>Area</b>	ThreadPool

## Metric C020\_EJBClientThreads

<b>Monitor Template Name</b>	OASSPI_0020
<b>Metric Name</b>	C020_EJBClientThrd
<b>Metric Type</b>	Reporting, Graphing
<b>Description</b>	Total number of EJB client active threads accessing the actual implementation of all methods for the entire server.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	N/A
<b>Collection Interval</b>	1 hour
<b>HPOM Threshold Type</b>	N/A
<b>Message Group</b>	N/A
<b>Message Text</b>	N/A
<b>Instruction Text</b>	N/A
<b>Report Type</b>	N/A
<b>Area</b>	EJB (OC4J)

## Metric C220\_EJBCLActThreads

<b>Monitor Template Name</b>	OASSPI_0220
<b>Metric Name</b>	C220_EJBCLActThreads
<b>Metric Type</b>	Alarming, Reporting
<b>Description</b>	Number of client active threads accessing the actual implementation of an EJB method.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	Warning: OASSPI-0220.1, threshold 100
<b>Collection Interval</b>	1 hour
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	OracleAS
<b>Message Text</b>	OASSPI-0220.1: Number of EJB method client threads (<\$VALUE>) too high (>=<\$THRESHOLD>)
<b>Instruction Text</b>	The specific EJB method within an application that caused the violation can be found in the object field of the message. See the <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
<b>Report Type</b>	Automatic
<b>Area</b>	EJB (OC4J)

## Metric C021\_EJBCLAvgExecTim

<b>Monitor Template Name</b>	OASSPI_0021
<b>Metric Name</b>	C021_EJBCLAvgExecTim
<b>Metric Type</b>	Reporting, Graphing
<b>Description</b>	Average time (in milliseconds) of EJB method clients spent inside the actual implementations of all methods.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	N/A
<b>Collection Interval</b>	1 hour
<b>HPOM Threshold Type</b>	N/A
<b>Message Group</b>	N/A

<b>Message Text</b>	N/A
<b>Instruction Text</b>	N/A
<b>Report Type</b>	N/A
<b>Area</b>	EJB (OC4J)

## Metric C221\_EJBCLAvgExecTim

<b>Monitor Template Name</b>	OASSPI_0221
<b>Metric Name</b>	C221_EJBCLAvgExecTim
<b>Metric Type</b>	Alarming, Reporting
<b>Description</b>	Average time (in milliseconds) spent inside the actual implementation of a specific EJB method.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	Major: OASSPI-0221.1, threshold 5,000 Warning: OASSPI-0221.2, threshold 1,000
<b>Collection Interval</b>	1 hour
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	OracleAS
<b>Message Text</b>	OASSPI-0221.x: Average execution time for EJB method (<\$VALUE> msecs) too high (>=<\$THRESHOLD> msecs)
<b>Instruction Text</b>	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. See the <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
<b>Report Type</b>	Automatic
<b>Area</b>	EJB (OC4J)

## Metric C022\_EJBICallsPrcRt

<b>Monitor Template Name</b>	OASSPI_0022
<b>Metric Name</b>	C022_EJBICallsPrcRt
<b>Metric Type</b>	Reporting, Graphing
<b>Description</b>	Total number of requests (per minute) processed by the actual implementation of all EJB methods over the collection interval.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	N/A
<b>Collection Interval</b>	1 hour
<b>HPOM Threshold Type</b>	N/A
<b>Message Group</b>	N/A
<b>Message Text</b>	N/A
<b>Instruction Text</b>	N/A
<b>Report Type</b>	N/A
<b>Area</b>	EJB (OC4J)

## Metric C222\_EJBICallsPrcRt

<b>Monitor Template Name</b>	OASSPI_0222
<b>Metric Name</b>	C222_EJBICallsPrcRt
<b>Metric Type</b>	Alarming, Reporting
<b>Description</b>	Total number of requests (per minute) processed by the actual implementation of methods for each EJB over the collection interval.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	Warning: OASSPI-0221.1, threshold 10,000
<b>Collection Interval</b>	1 hour
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	OracleAS

<b>Message Text</b>	OASSPI-0222.1: Processing rate for EJB method calls (<\$VALUE> per minute) too high (>=<\$THRESHOLD> per minute)
<b>Instruction Text</b>	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. See the <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
<b>Report Type</b>	Automatic
<b>Area</b>	EJB (OC4J)

## Metric C030\_EJBWrapActThrds

<b>Monitor Template Name</b>	OASSPI_0030
<b>Metric Name</b>	C030_EJBWrapActThrds
<b>Metric Type</b>	Reporting, Graphing
<b>Description</b>	Total number of EJB active threads accessing the automatically generated wrapper of all methods for the entire server.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	N/A
<b>Collection Interval</b>	1 hour
<b>HPOM Threshold Type</b>	N/A
<b>Message Group</b>	N/A
<b>Message Text</b>	N/A
<b>Instruction Text</b>	N/A
<b>Report Type</b>	N/A
<b>Area</b>	EJB (OC4J)

## Metric C230\_EJBWrapActThrds

<b>Monitor Template Name</b>	OASSPI_0230
<b>Metric Name</b>	C230_EJBWrapActThrds
<b>Metric Type</b>	Alarming, Reporting
<b>Description</b>	Number of active threads accessing the automatically generated wrapper of an EJB method.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	Warning: OASSPI-0230.1, threshold 100
<b>Collection Interval</b>	1 hour
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	OracleAS
<b>Message Text</b>	OASSPI-0230.1: Number of EJB wrapper method threads (<\$VALUE>) too high (>=<\$THRESHOLD>)



<b>Instruction Text</b>	The specific EJB method within an application that caused the violation can be found in the object field of the message. See the <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
<b>Report Type</b>	Automatic
<b>Area</b>	EJB (OC4J)

## Metric C031\_EJBWrpAvExecTim

<b>Monitor Template Name</b>	OASSPI_0031
<b>Metric Name</b>	C031_EJBWrpAvExecTim
<b>Metric Type</b>	Reporting, Graphing
<b>Description</b>	Average time (in milliseconds) spent inside all automatically generated wrapper of all EJB methods.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	N/A
<b>Collection Interval</b>	1 hour
<b>HPOM Threshold Type</b>	N/A
<b>Message Group</b>	N/A
<b>Message Text</b>	N/A
<b>Instruction Text</b>	N/A
<b>Report Type</b>	N/A
<b>Area</b>	EJB (OC4J)

## Metric C231\_EJBWrpAvExecTim

<b>Monitor Template Name</b>	OASSPI_0231
<b>Metric Name</b>	C231_EJBWrpAvExecTim
<b>Metric Type</b>	Alarming, Reporting
<b>Description</b>	Average time (in milliseconds) spent inside the automatically generated wrapper of a specific EJB method.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	Major: OASSPI-0231.1, threshold 5,000 Warning: OASSPI-0231.2, threshold 1,000
<b>Collection Interval</b>	1 hour
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	OracleAS
<b>Message Text</b>	OASSPI-0231.x: Average execution time for EJB wrapper method (<\$VALUE> msec) too high (>=<\$THRESHOLD> msec)
<b>Instruction Text</b>	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. See the <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
<b>Report Type</b>	Automatic
<b>Area</b>	EJB (OC4J)

## Metric C032\_EJBWrpCallPrcRt

<b>Monitor Template Name</b>	OASSPI_0032
<b>Metric Name</b>	C032_EJBWrpCallPrcRt
<b>Metric Type</b>	Reporting, Graphing
<b>Description</b>	Total number of requests processed (per minute) by the automatically generated wrapper of all EJB methods over the collection interval.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	N/A
<b>Collection Interval</b>	1 hour

<b>HPOM Threshold Type</b>	N/A
<b>Message Group</b>	N/A
<b>Message Text</b>	N/A
<b>Instruction Text</b>	N/A
<b>Report Type</b>	N/A
<b>Area</b>	EJB (OC4J)

## Metric C232\_EJBWrpCallPrcRt

<b>Monitor Template Name</b>	OASSPI_0232
<b>Metric Name</b>	C232_EJBWrpCallPrcRt
<b>Metric Type</b>	Alarming, Reporting
<b>Description</b>	Total number of requests processed (per minute) by the automatically generated wrapper of methods for each EJB over the collection interval.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	Warning: OASSPI-0232.1, threshold 10,000
<b>Collection Interval</b>	1 hour
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	OracleAS
<b>Message Text</b>	OASSPI-0232.1: Processing rate for EJB wrapper method calls (<\$VALUE> per minute) too high (>=<\$THRESHOLD> per minute)
<b>Instruction Text</b>	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. See the <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
<b>Report Type</b>	Automatic
<b>Area</b>	EJB (OC4J)

## Metric J233\_StlesSsnBnPIUt

<b>Monitor Template Name</b>	OASSPI_0233
<b>Metric Name</b>	J233_StlesSsnBnPIUtI
<b>Metric Type</b>	Alarming, Reporting
<b>Description</b>	Indicates Utilization of Stateless Session Bean Pool
<b>Avail. Oracle AS Version</b>	10gR3
<b>Severity: Condition with Threshold</b>	Major: OASSPI-0233.1, threshold 90 Warning: OASSPI-0233.2, threshold 80
<b>Collection Interval</b>	5m
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	OracleAS
<b>Message Text</b>	OASSPI-0233.1: JDBC connection cache misses (<\$VALUE>%) too high (>= <\$THRESHOLD>%) [Policy: <\$NAME>] OASSPI-0233.2: JDBC connection cache misses (<\$VALUE>%) too high (>= <\$THRESHOLD>%) [Policy: <\$NAME>]
<b>Instruction Text</b>	The specific JDBC connection cache instance can be found in the object field of the message. This alarms might indicate that the connection cache size should be increased. Refer to the <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
<b>Report Type</b>	Automatic
<b>Area</b>	JDBC

## Metric J234\_StfulSsnBnPIUtl

<b>Monitor Template Name</b>	OASSPI_0234
<b>Metric Name</b>	J234_StfulSsnBnPIUtl
<b>Metric Type</b>	Alarming, Reporting
<b>Description</b>	Indicates Utilization of Stateful Session Bean Pool
<b>Avail. Oracle AS Version</b>	10gR3
<b>Severity: Condition with Threshold</b>	Major: OASSPI-0234.1, threshold 90 Warning: OASSPI-0234.2, threshold 80
<b>Collection Interval</b>	5m
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	OracleAS
<b>Message Text</b>	OASSPI-0234.1: JDBC connection cache misses (<\$VALUE>%) too high (>= <\$THRESHOLD>%) [Policy: <\$NAME>] OASSPI-0234.2: JDBC connection cache misses (<\$VALUE>%) too high (>= <\$THRESHOLD>%) [Policy: <\$NAME>]
<b>Instruction Text</b>	The specific JDBC connection cache instance can be found in the object field of the message. This alarms might indicate that the connection cache size should be increased. Refer to the <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
<b>Report Type</b>	Automatic
<b>Area</b>	JDBC

## Metric J235\_EntityBnPIUtl

<b>Monitor Template Name</b>	OASSPI_0235
<b>Metric Name</b>	J235_EntityBnPIUtl
<b>Metric Type</b>	Alarming, Reporting
<b>Description</b>	Indicates Utilization of Entity Bean Pool
<b>Avail. Oracle AS Version</b>	10gR3
<b>Severity: Condition with Threshold</b>	Major: OASSPI-0235.1, threshold 90 Warning: OASSPI-0235.2, threshold 80
<b>Collection Interval</b>	5m
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	OracleAS
<b>Message Text</b>	OASSPI-0235.1: JDBC connection cache misses (<\$VALUE>%) too high (>= <\$THRESHOLD>%) [Policy: <\$NAME>] OASSPI-0235.2: JDBC connection cache misses (<\$VALUE>%) too high (>= <\$THRESHOLD>%) [Policy: <\$NAME>]
<b>Instruction Text</b>	The specific JDBC connection cache instance can be found in the object field of the message. This alarms might indicate that the connection cache size should be increased. Refer to the <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
<b>Report Type</b>	Automatic
<b>Area</b>	JDBC

## Metric C240\_SrvltAvgExecTim

<b>Monitor Template Name</b>	OASSPI_0240
<b>Metric Name</b>	C240_SrvltAvgExecTim
<b>Metric Type</b>	Alarming, Reporting
<b>Description</b>	Average time spent (in milliseconds) on the servlet's service() call over the collection interval.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	Major: OASSPI-0240.1, threshold 5,000 Warning: OASSPI-0240.2, threshold 1,000
<b>Collection Interval</b>	1 hour
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	OracleAS
<b>Message Text</b>	OASSPI-0240.x: Average execution time for the servlet (<\$VALUE> msecs) too high (>=<\$THRESHOLD> msecs)
<b>Instruction Text</b>	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. See the <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
<b>Report Type</b>	Automatic
<b>Area</b>	Servlet (OC4J)

## Metric C241\_SrvltExecTime

<b>Monitor Template Name</b>	OASSPI_0241
<b>Metric Name</b>	C241_SrvltExecTime
<b>Metric Type</b>	Reporting
<b>Description</b>	Total time (in milliseconds) spent on the servlet's service() call over the collection interval.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	N/A
<b>Collection Interval</b>	1 hour
<b>HPOM Threshold Type</b>	N/A

<b>Message Group</b>	N/A
<b>Message Text</b>	N/A
<b>Instruction Text</b>	N/A
<b>Report Type</b>	N/A
<b>Area</b>	Servlet (OC4J)

## Metric C042\_SrvltActThreads

<b>Monitor Template Name</b>	OASSPI_0042
<b>Metric Name</b>	C042_SrvltActThreads
<b>Metric Type</b>	Reporting, Graphing
<b>Description</b>	Total number of threads servicing all servlets.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	N/A
<b>Collection Interval</b>	1 hour
<b>HPOM Threshold Type</b>	N/A
<b>Message Group</b>	N/A
<b>Message Text</b>	N/A
<b>Instruction Text</b>	N/A
<b>Report Type</b>	N/A
<b>Area</b>	Servlet (OC4J)



## Metric C242\_SrvltActThreads

<b>Monitor Template Name</b>	OASSPI_0242
<b>Metric Name</b>	C242_SrvltActThreads
<b>Metric Type</b>	Alarming, Reporting
<b>Description</b>	Current number of threads servicing the servlet.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	Warning: OASSPI-0242.1, threshold 10,000
<b>Collection Interval</b>	1 hour
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	OracleAS
<b>Message Text</b>	OASSPI-0242.1: Number of servlet active threads (<\$VALUE>) too high (>=<\$THRESHOLD>)
<b>Instruction Text</b>	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. See the <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
<b>Report Type</b>	Automatic
<b>Area</b>	Servlet (OC4J)

## Metric C243\_ServletReqRate

<b>Monitor Template Name</b>	OASSPI_0243
<b>Metric Name</b>	C243_ServletReqRate
<b>Metric Type</b>	Alarming, Reporting
<b>Description</b>	Number of requests for a servlet per second
<b>Avail. Oracle AS Version</b>	10gR2, 10gR3
<b>Severity: Condition with Threshold</b>	Warning: OASSPI-0243.1, threshold 10000
<b>Collection Interval</b>	1h
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	Oracle AS

<b>Message Text</b>	OASSPI-0243.1: # of requests for application (<\$OPTION(applicationname)>) for a servlet (<\$VALUE>/sec) too high (>=<\$THRESHOLD>/sec) [Policy: <\$NAME>]
<b>Instruction Text</b>	N/A
<b>Report Type</b>	Application Bank: ASCII report
<b>Area</b>	Servlets

## Metric C245\_JSPAvgExecTime

<b>Monitor Template Name</b>	OASSPI_0245
<b>Metric Name</b>	C245_JSPAvgExecTime
<b>Metric Type</b>	Alarming, Reporting
<b>Description</b>	Average time to serve a JSP (in milliseconds) over the collection interval.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	Major: OASSPI-0245.1, threshold 5,000 Warning: OASSPI-0245.2, threshold 1,000
<b>Collection Interval</b>	1 hour
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	OracleAS
<b>Message Text</b>	OASSPI-0245.1: Average service time for the JSP (<\$VALUE> msecs) too high (>=<\$THRESHOLD> msecs)
<b>Instruction Text</b>	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. See the <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
<b>Report Type</b>	Automatic
<b>Area</b>	JSP (OC4J)

## Metric C246\_JSPExecTime

<b>Monitor Template Name</b>	OASSPI_0246
<b>Metric Name</b>	C246_JSPExecTime
<b>Metric Type</b>	Reporting

<b>Description</b>	Total time to serve a JSP (in milliseconds) over the collection interval.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	N/A
<b>Collection Interval</b>	1 hour
<b>HPOM Threshold Type</b>	N/A
<b>Message Group</b>	N/A
<b>Message Text</b>	N/A
<b>Instruction Text</b>	N/A
<b>Report Type</b>	N/A
<b>Area</b>	JSP (OC4J)

## Metric C047\_JSPActRequests

<b>Monitor Template Name</b>	OASSPI_0047
<b>Metric Name</b>	C047_JSPActRequests
<b>Metric Type</b>	Reporting, Graphing
<b>Description</b>	Total number of active requests for all JSPs.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	N/A
<b>Collection Interval</b>	1 hour
<b>HPOM Threshold Type</b>	N/A
<b>Message Group</b>	N/A
<b>Message Text</b>	N/A
<b>Instruction Text</b>	N/A
<b>Report Type</b>	N/A
<b>Area</b>	JSP (OC4J)

## Metric C247\_JSPActRequests

<b>Monitor Template Name</b>	OASSPI_0247
<b>Metric Name</b>	C245_JSPActRequests
<b>Metric Type</b>	Alarming, Reporting
<b>Description</b>	Current number of active requests for the JSP.
<b>Avail. Oracle AS Version</b>	All
<b>Severity: Condition with Threshold</b>	Warning: OASSPI-0247.1, threshold 10,000
<b>Collection Interval</b>	1 hour
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	OracleAS
<b>Message Text</b>	OASSPI-0247.1: Number of JSP requests (<\${VALUE}>) too high (>=<\${THRESHOLD}>)

<b>Instruction Text</b>	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. See the <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
<b>Report Type</b>	Automatic
<b>Area</b>	JSP (OC4J)

## Metric C248\_JSPReqRate

<b>Monitor Template Name</b>	OASSPI_0048
<b>Metric Name</b>	C248_JSPReqRate
<b>Metric Type</b>	Alarming, Reporting
<b>Description</b>	Number of requests, per second, for a JSP
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	
<b>Collection Interval</b>	
<b>HPOM Threshold Type</b>	
<b>Message Group</b>	
<b>Message Text</b>	
<b>Instruction Text</b>	
<b>Report Type</b>	
<b>Area</b>	JSP (OC4J)

## Metric C050\_JMSConnCreated

<b>Monitor Template Name</b>	OASSPI_0050
<b>Metric Name</b>	C050_JMSConnCreated
<b>Metric Type</b>	Alarming, Reporting, Graphing
<b>Description</b>	Frequency of the JMS connections created over the collection interval.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	Critical: OASSPI-0050.1, threshold 98
<b>Collection Interval</b>	15 minutes
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	OracleAS
<b>Message Text</b>	OASSPI-0050.1: Number of JMS connections created (<\$VALUE>) too high (>=<\$THRESHOLD>)

<b>Instruction Text</b>	This metric monitors the load of JMS connection on the system. See the <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
<b>Report Type</b>	Automatic
<b>Area</b>	JMS (OC4J)

## Metric C251\_JMSTotalMsgCt

<b>Monitor Template Name</b>	OASSPI_0251
<b>Metric Name</b>	C251_JMSTotalMsgCt
<b>Metric Type</b>	Alarming, Reporting
<b>Description</b>	Total number of JMS messages contained in the message store
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	Critical: OASSPI-0251.1, threshold 100
<b>Collection Interval</b>	15 minutes
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	OracleAS
<b>Message Text</b>	OASSPI-0251.1: Number of JMS messages in the store (<\$VALUE>) too high (>=<\$THRESHOLD>)
<b>Instruction Text</b>	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. See the <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
<b>Report Type</b>	Automatic
<b>Area</b>	JMS (OC4J)

## Metric C260\_JDBCcacheMissPct

<b>Monitor Template Name</b>	OASSPI_0260
<b>Metric Name</b>	C260_JDBCcacheMissPct
<b>Metric Type</b>	Alarming, Reporting
<b>Description</b>	Percentage of failed cache connection requests.

<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	Major: OASSPI-0260.1, threshold 90 Warning: OASSPI-0260.2, threshold 80
<b>Collection Interval</b>	5 minutes
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	OracleAS
<b>Message Text</b>	OASSPI-0260.x: JDBC connection cache misses (<\$VALUE>%) too high (>=<\$THRESHOLD>%)
<b>Instruction Text</b>	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. See the <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
<b>Report Type</b>	Automatic
<b>Area</b>	JDBC (OC4J)



## Metric C280\_WebCntxtAvRqPrc

<b>Monitor Template Name</b>	OASSPI_0280
<b>Metric Name</b>	C280_WebCntxtAvRqPrc
<b>Metric Type</b>	Alarming, Reporting, Graphing
<b>Description</b>	Average time spent (in milliseconds) servicing web modules per request processed over the collection interval.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	Major: OASSPI-0280.1, threshold 5,000 Warning: OASSPI-0280.2, threshold 1,000
<b>Collection Interval</b>	15 minutes
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	OracleAS
<b>Message Text</b>	OASSPI-0280.x: Average Web context request processing time (<\$VALUE> msecs) too high (>=<\$THRESHOLD> msecs)
<b>Instruction Text</b>	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. See the <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
<b>Report Type</b>	Automatic
<b>Area</b>	Web Context (OC4J)

## Metric C281\_WebCntxtActSess

<b>Monitor Template Name</b>	OASSPI_0281
<b>Metric Name</b>	C281_WebCntxtActSess
<b>Metric Type</b>	Alarming, Reporting, Graphing
<b>Description</b>	Current number of active sessions for a web module within an application.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	Warning: OASSPI-0281.1, threshold 10,000
<b>Collection Interval</b>	15 minutes
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	OracleAS
<b>Message Text</b>	OASSPI-0281.1: Number of Web context active sessions (<\$VALUE>) too high (>=<\$THRESHOLD>)
<b>Instruction Text</b>	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. See the <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
<b>Report Type</b>	Automatic
<b>Area</b>	Web Context (OC4J)

## Metric C290\_TimerServiceStatus

<b>Monitor Template Name</b>	OASSPI_0290
<b>Metric Name</b>	C290_TimerServiceStatus
<b>Metric Type</b>	Alarming
<b>Description</b>	Status of the Timer service
<b>Avail. Oracle AS Version</b>	10gR2, 10gR3
<b>Severity: Condition with Threshold</b>	
<b>Collection Interval</b>	
<b>HPOM Threshold Type</b>	
<b>Message Group</b>	

<b>Message Text</b>	
<b>Instruction Text</b>	
<b>Report Type</b>	
<b>Area</b>	Timer Service

## Metric C100\_HTTPSvrActConn

<b>Monitor Template Name</b>	OASSPI_0100
<b>Metric Name</b>	C100_HTTPSvrActConn
<b>Metric Type</b>	Alarming, Reporting, Graphing
<b>Description</b>	Number of active HTTP connections.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	Warning: OASSPI-0100.1, threshold 100
<b>Collection Interval</b>	15 minutes
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	OracleAS
<b>Message Text</b>	OASSPI-0100.1: Number of active HTTP connections (<\$VALUE>) too high (>=<\$THRESHOLD>)
<b>Instruction Text</b>	This metric measures the number of connections to the Oracle HTTP Server currently open. You are 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, <code>httpd.conf</code> . Please see “Configuring the MaxClients Directive” in the <i>Oracle Application Server Performance Guide</i> for more information. The <i>Oracle HTTP Administrator's Guide</i> should also be reviewed.
<b>Report Type</b>	Automatic
<b>Area</b>	HTTP (OHS)

## Metric C108\_HTTPAvgRespSzRq

<b>Monitor Template Name</b>	OASSPI_0108
<b>Metric Name</b>	C108_HTTPAvgRespSzRq
<b>Metric Type</b>	Reporting, Graphing

<b>Description</b>	Average size of the response data (in kilobytes) per request completed by the HTTP server.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	N/A
<b>Collection Interval</b>	15 minutes
<b>HPOM Threshold Type</b>	N/A
<b>Message Group</b>	N/A
<b>Message Text</b>	N/A
<b>Instruction Text</b>	N/A
<b>Report Type</b>	N/A
<b>Area</b>	HTTP (OHS)

## Metric C109\_HTTPVHAvRspSzRq

<b>Monitor Template Name</b>	OASSPI_0109
<b>Metric Name</b>	C109_HTTPVHAvRspSzRq
<b>Metric Type</b>	Reporting, Graphing
<b>Description</b>	Average size of the response data (in kilobytes) per request completed by the HTTP server virtual host.
<b>Avail. Oracle AS Version</b>	10gR1
<b>Severity: Condition with Threshold</b>	N/A
<b>Collection Interval</b>	15 minutes
<b>HPOM Threshold Type</b>	N/A
<b>Message Group</b>	N/A
<b>Message Text</b>	N/A
<b>Instruction Text</b>	N/A
<b>Report Type</b>	N/A
<b>Area</b>	HTTP (OHS)

## Metric C272\_TranRollbackResourceRt

<b>Monitor Template Name</b>	OASSPI_0272
<b>Metric Name</b>	C272_TranRollbackResourceRt
<b>Metric Type</b>	Alarming, Reporting
<b>Description</b>	Number of transactions rolled back, per second, because of an error in an enlisted resource
<b>Avail. Oracle AS Version</b>	10gR3
<b>Severity: Condition with Threshold</b>	Minor: OASSPI-0272.1, threshold 1
<b>Collection Interval</b>	5m
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	Oracle AS
<b>Message Text</b>	OASSPI-0272.1: % of transactions rolled back due to resource error (<\$VALUE>%) too high (>=<\$THRESHOLD>%) [Policy: <\$NAME>]

<b>Instruction Text</b>	<p><b>Probable cause:</b> The percent of transactions rolled back due to resource errors has exceeded the threshold value. Transactions are not successfully completing due to resource errors.</p> <p><b>Potential impact:</b> Fewer user requests are being successfully completed.</p> <p><b>Suggested action:</b> The administrator can monitor individual transactions from the Administration Console. In addition to displaying statistics, the following information can also be displayed:</p> <ol style="list-style-type: none"> <li>1 Transactions by name, including rollback and time active information.</li> <li>2 Transactions by resource, including statistics on total, committed, and rolled back transactions.</li> </ol> <p>All active transactions, including information on status, servers, resources, properties, and the transaction identifier.</p>
<b>Report Type</b>	Application Bank: ASCII report
<b>Area</b>	Transactions

## Metric C273\_TranRollbackAppRt

<b>Monitor Template Name</b>	OASSPI_0273
<b>Metric Name</b>	C273_TranRollbackAppRt
<b>Metric Type</b>	Alarming, Reporting
<b>Description</b>	Number of transactions rolled back, per second, because of the application calling the setRollbackOnly or rollback processes explicitly per second
<b>Avail. Oracle AS Version</b>	10gR3
<b>Severity: Condition with Threshold</b>	Minor: OASSPI-0273.1, threshold 1
<b>Collection Interval</b>	5m
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	Oracle AS
<b>Message Text</b>	OASSPI-0273.1: % of transactions rolled back due to application error (<\$VALUE>%) too high (>=<\$THRESHOLD>%) [Policy: <\$NAME>]
<b>Instruction Text</b>	<p><b>Probable cause:</b> The percent of transactions rolled back due to application errors has exceeded the threshold value. Transactions are not successfully completing due to application errors.</p> <p><b>Potential impact:</b> Fewer user requests are being successfully completed.</p> <p><b>Suggested action:</b> The administrator can monitor individual transactions from the Administration Console. In addition to displaying statistics, the following information can also be displayed:</p> <ol style="list-style-type: none"> <li>1 Transactions by name, including rollback and time active information.</li> <li>2 Transactions by resource, including statistics on total, committed, and rolled back transactions.</li> </ol> <p>All active transactions, including information on status, servers, resources, properties, and the transaction identifier.</p>
<b>Report Type</b>	Operator-initiated graph; Application Bank: ASCII report
<b>Area</b>	Transactions

## Metric C274\_TransRollbackTimedoutRt

<b>Monitor Template Name</b>	OASSPI_0274
<b>Metric Name</b>	J274_TransRollbackTimedoutRt
<b>Metric Type</b>	Alarming, Reporting
<b>Description</b>	Number of transactions rolled back, per second, because of timeout
<b>Avail. Oracle AS Version</b>	10gR3
<b>Severity: Condition with Threshold</b>	Minor: OASSPI-0274.1, threshold 1
<b>Collection Interval</b>	5m
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	Oracle AS
<b>Message Text</b>	OASSPI-0274.1: % of transactions rolled back due to timeout error (<\$VALUE>%) too high (>=<\$THRESHOLD>%) [Policy: <\$NAME>]
<b>Instruction Text</b>	<p><b>Probable cause:</b> The percent of transactions rolled back due to timeout errors has exceeded the threshold value. Transactions are not successfully completing due to timeout errors.</p> <p><b>Potential impact:</b> Fewer user requests are being successfully completed.</p> <p><b>Suggested action:</b> The administrator can monitor individual transactions from the Administration Console. In addition to displaying statistics, the following information can also be displayed:</p> <ol style="list-style-type: none"> <li>1 Transactions by name, including rollback and time active information.</li> <li>2 Transactions by resource, including statistics on total, committed, and rolled back transactions.</li> </ol> <p>All active transactions, including information on status, servers, resources, properties, and the transaction identifier.</p>
<b>Report Type</b>	Operator-initiated graph; Application Bank: ASCII report
<b>Area</b>	Transactions

## Metric C275\_TransRollbackAdminRt

<b>Monitor Template Name</b>	OASSPI_0275
<b>Metric Name</b>	J275_TransRollbackAdminRt
<b>Metric Type</b>	Alarming, Reporting



<b>Description</b>	Number of transactions rolled back, per second, because of administrative action
<b>Avail. Oracle AS Version</b>	10gR3
<b>Severity: Condition with Threshold</b>	
<b>Collection Interval</b>	
<b>HPOM Threshold Type</b>	
<b>Message Group</b>	Oracle AS
<b>Message Text</b>	
<b>Instruction Text</b>	
<b>Report Type</b>	Operator-initiated graph; Application Bank: ASCII report
<b>Area</b>	Transactions

## Metric J340\_SrvltAvgExecTim

<b>Monitor Template Name</b>	JMXSPI_0340
<b>Metric Name</b>	J340_SrvltAvgExecTim
<b>Metric Type</b>	Alarming, Reporting
<b>Description</b>	Average response time of a servlet (in msec) over the collection interval
<b>Avail. Oracle AS Version</b>	10gR3
<b>Severity: Condition with Threshold</b>	Warning: JMXSPI_0340.1, threshold 1000
<b>Collection Interval</b>	1h
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	Generic JMX
<b>Message Text</b>	OASSPI-0340.1: Ave. execution time for a servlet (<VALUE>ms) belongs to application <OPTION(applicationname)> too high (>=<THRESHOLD>ms) [Policy: <NAME>]
<b>Instruction Text</b>	<b>Probable cause:</b> N/A <b>Potential impact:</b> N/A <b>Suggested action:</b> N/A
<b>Report Type</b>	Application Bank: ASCII report
<b>Area</b>	Servlets

## Metric J360\_JDBCConnPoolUtil

<b>Monitor Template Name</b>	JMXSPI_0360
<b>Metric Name</b>	J360_JDBCConnPoolUtil
<b>Metric Type</b>	Alarming, Reporting, Graphing
<b>Description</b>	The utilization, in percentage, of the JDBC connections available in the connection pool
<b>Avail. Oracle AS Version</b>	10gR3
<b>Severity: Condition with Threshold</b>	Critical: JMXSPI-0360.1, threshold 98% Major: JMXSPI-0360.2, threshold 95%
<b>Collection Interval</b>	5m
<b>HPOM Threshold Type</b>	Maximum

<b>Message Group</b>	Generic JMX
<b>Message Text</b>	JMXSPI-0360.1: % utilization of available JDBC connections in connection pool (<\$VALUE>%) for application (<\$OPTION(applicationname)>) too high (>=<\$THRESHOLD>%) [Policy: <\$NAME>] JMXSPI-0360.2: % utilization of available JDBC connections in connection pool (<\$VALUE>%) for application (<\$OPTION(applicationname)>) too high (>=<\$THRESHOLD>%) [Policy: <\$NAME>]
<b>Instruction Text</b>	<b>Probable cause:</b> N/A <b>Potential impact:</b> N/A <b>Suggested action:</b> N/A
<b>Report Type</b>	Application Bank: ASCII Report
<b>Area</b>	JDBC

## Metric J361\_JDBCConPIWtCnt

<b>Monitor Template Name</b>	JMXSPI_0361
<b>Metric Name</b>	J361_JDBCConPIWtCnt
<b>Metric Type</b>	Alarming, Reporting, Graphing
<b>Description</b>	The number of threads waiting for a connection
<b>Avail. Oracle AS Version</b>	10gR3
<b>Severity: Condition with Threshold</b>	Critical: JMXSPI-0361.1, threshold 98 Major: JMXSPI-0361.2, threshold 95
<b>Collection Interval</b>	5m
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	Generic JMX
<b>Message Text</b>	JMXSPI-0361.1: % utilization of available JDBC connections in connection pool (<\$VALUE>%) for application (<\$OPTION(applicationname)>) too high (>=<\$THRESHOLD>%) [Policy: <\$NAME>] JMXSPI-0361.2: % utilization of available JDBC connections in connection pool (<\$VALUE>%) for application (<\$OPTION(applicationname)>) too high (>=<\$THRESHOLD>%) [Policy: <\$NAME>]
<b>Instruction Text</b>	<b>Probable cause:</b> N/A <b>Potential impact:</b> N/A <b>Suggested action:</b> N/A
<b>Report Type</b>	Operator-initiated graph
<b>Area</b>	JDBC

## Metric J362\_JDBCConPIWtCntSum

<b>Monitor Template Name</b>	JMXSPI_0362
<b>Metric Name</b>	J362_JDBCConPIWtCntSum
<b>Metric Type</b>	Alarming, Reporting, Graphing
<b>Description</b>	The total number of threads waiting for a connection
<b>Avail. Oracle AS Version</b>	10gR3
<b>Severity: Condition with Threshold</b>	Critical: JMXSPI-0362.1, threshold 98 Major: JMXSPI-0362.2, threshold 95

<b>Collection Interval</b>	5m
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	Generic JMX
<b>Message Text</b>	JMXSPI-0362.1: % utilization of available JDBC connections in connection pool (<\$VALUE>%) for application (<\$OPTION(applicationname)>) too high (>=<\$THRESHOLD>%) [Policy: <\$NAME>] JMXSPI-0362.2: % utilization of available JDBC connections in connection pool (<\$VALUE>%) for application (<\$OPTION(applicationname)>) too high (>=<\$THRESHOLD>%) [Policy: <\$NAME>]
<b>Instruction Text</b>	<b>Probable cause:</b> N/A <b>Potential impact:</b> N/A <b>Suggested action:</b> N/A
<b>Report Type</b>	Operator-initiated graph
<b>Area</b>	JDBC

## Metric J364\_JDBCAvgWaitTim

<b>Monitor Template Name</b>	JMXSPI_0364
<b>Metric Name</b>	J364_JDBCAvgWaitTim
<b>Metric Type</b>	Alarming, Reporting
<b>Description</b>	Average time spend waiting for a connection (in msec) over the collection interval
<b>Avail. Oracle AS Version</b>	10gR3
<b>Severity: Condition with Threshold</b>	Critical: JMXSPI-0364.1, threshold 98 Major: JMXSPI-0364.2, threshold 95
<b>Collection Interval</b>	5m
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	Generic JMX
<b>Message Text</b>	JMXSPI-0364.1: % utilization of available JDBC connections in connection pool (<\$VALUE>%) for application (<\$OPTION(applicationname)>) too high (>=<\$THRESHOLD>%) [Policy: <\$NAME>] JMXSPI-0364.2: % utilization of available JDBC connections in connection pool (<\$VALUE>%) for application (<\$OPTION(applicationname)>) too high (>=<\$THRESHOLD>%) [Policy: <\$NAME>]
<b>Instruction Text</b>	<b>Probable cause:</b> N/A <b>Potential impact:</b> N/A <b>Suggested action:</b> N/A
<b>Report Type</b>	Automatic Action: ASCII report
<b>Area</b>	JDBC

## Metric J365\_JCAConnPoolUtil

<b>Monitor Template Name</b>	JMXSPI_0365
<b>Metric Name</b>	J365_JCAConnPoolUtil
<b>Metric Type</b>	Alarming, Reporting, Graphing
<b>Description</b>	Utilization, in percentage, of JCA connections available in the connection pool
<b>Avail. Oracle AS Version</b>	10gR3

<b>Severity: Condition with Threshold</b>	JMXSPI_0365.1: Critical threshold, threshold = 98 JMXSPI_0365.2: Major threshold, threshold = 95
<b>Collection Interval</b>	
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	Generic JMX
<b>Message Text</b>	JMXSPI_0365.1: % utilization of available JCA connections in connection pool (<\$VALUE>%) too high (>=<\$THRESHOLD>%) [Policy: <\$NAME>] JMXSPI_0365.2: % utilization of available JCA connections in connection pool (<\$VALUE>%) too high (>=<\$THRESHOLD>%) [Policy: <\$NAME>]
<b>Instruction Text</b>	<b>Probable cause:</b> N/A <b>Potential impact:</b> N/A <b>Suggested action:</b> N/A
<b>Report Type</b>	Automatic Action: ASCII report
<b>Area</b>	J2EE

## Metric J366\_JCAConPIWtCnt

<b>Monitor Template Name</b>	JMXSPI_0366
<b>Metric Name</b>	J366_JCAConPIWtCnt
<b>Metric Type</b>	Alarming, Reporting, Graphing
<b>Description</b>	The number of threads waiting for a connection
<b>Avail. Oracle AS Version</b>	10gR3
<b>Severity: Condition with Threshold</b>	JMXSPI_0366.1: Critical threshold, threshold = 10 JMXSPI_0366.2: Major threshold, threshold = 95
<b>Collection Interval</b>	
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	Generic JMX
<b>Message Text</b>	JMXSPI_0366.1: Critical threshold, % utilization of available JDBC connections in connection pool (<\$VALUE>%) for application (<\$OPTION(applicationname)>) too high (>=<\$THRESHOLD>%) [Policy: <\$NAME>] JMXSPI_0366.2: Major threshold, % utilization of available JDBC connections in connection pool (<\$VALUE>%) for application (<\$OPTION(applicationname)>) too high (>=<\$THRESHOLD>%) [Policy: <\$NAME>]
<b>Instruction Text</b>	<b>Probable cause:</b> N/A <b>Potential impact:</b> N/A <b>Suggested action:</b> N/A
<b>Report Type</b>	
<b>Area</b>	

## Metric J367\_JCAConPIWtCntSum

<b>Monitor Template Name</b>	JMXSPI_0367
<b>Metric Name</b>	J367_JCAConPIWtCntSum
<b>Metric Type</b>	Alarming, Reporting, Graphing
<b>Description</b>	The total number of threads waiting for a connection
<b>Avail. Oracle AS Version</b>	10gR3
<b>Severity: Condition with Threshold</b>	JMXSPI_0367.1: Critical threshold, threshold = 98 JMXSPI_0367.2: Major threshold, threshold = 95



<b>Collection Interval</b>	
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	Generic JMX
<b>Message Text</b>	JMXSPI_0367.1: % utilization of available JDBC connections in connection pool (<\$VALUE>%) for application (<\$OPTION(applicationname)>) too high (>=<\$THRESHOLD>%) [Policy: <\$NAME>] JMXSPI_0367.2: % utilization of available JDBC connections in connection pool (<\$VALUE>%) for application (<\$OPTION(applicationname)>) too high (>=<\$THRESHOLD>%) [Policy: <\$NAME>]
<b>Instruction Text</b>	<b>Probable cause:</b> N/A <b>Potential impact:</b> N/A <b>Suggested action:</b> N/A
<b>Report Type</b>	
<b>Area</b>	

## Metric J369\_JCAvgWaitTim

<b>Monitor Template Name</b>	JMXSPI_0369
<b>Metric Name</b>	J369_JCAvgWaitTim
<b>Metric Type</b>	Alarming
<b>Description</b>	Average time spent (in msec) waiting for a connection during the collection interval
<b>Avail. Oracle AS Version</b>	10gR3
<b>Severity: Condition with Threshold</b>	JMXSPI_0369.1: Critical threshold, threshold = 98 JMXSPI_0369.2: Major threshold, threshold = 95
<b>Collection Interval</b>	
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	Generic JMX
<b>Message Text</b>	JMXSPI_0369.1: % utilization of available JDBC connections in connection pool (<\$VALUE>%) for application (<\$OPTION(applicationname)>) too high (>=<\$THRESHOLD>%) [Policy: <\$NAME>] JMXSPI_0369.2: % utilization of available JDBC connections in connection pool (<\$VALUE>%) for application (<\$OPTION(applicationname)>) too high (>=<\$THRESHOLD>%) [Policy: <\$NAME>]
<b>Instruction Text</b>	<b>Probable cause:</b> N/A <b>Potential impact:</b> N/A <b>Suggested action:</b> N/A
<b>Report Type</b>	
<b>Area</b>	

## Metric J371\_TranRollbackRt

<b>Monitor Template Name</b>	JMXSPI_0371
<b>Metric Name</b>	J371_TranRollbackRt
<b>Metric Type</b>	Alarming, Reporting
<b>Description</b>	Number of transactions rolled back per second
<b>Avail. Oracle AS Version</b>	10gR3
<b>Severity: Condition with Threshold</b>	Minor: OASSPI-0371.1, threshold, 1

<b>Collection Interval</b>	5m
<b>HPOM Threshold Type</b>	Maximum
<b>Message Group</b>	Generic JMX
<b>Message Text</b>	OASSPI-0371.1: % of transactions rolled back (<\$VALUE>%) too high (>=<\$THRESHOLD>%) [Policy: <\$NAME>]
<b>Instruction Text</b>	<b>Probable cause:</b> N/A <b>Potential impact:</b> N/A <b>Suggested action:</b> N/A
<b>Report Type</b>	Application Bank: ASCII report
<b>Area</b>	Transactions



## 2 Oracle AS SPI Log File and Configuration File Policies

This chapter describes the Smart Plug-in for Oracle Application Server (Oracle AS SPI) policies that monitor the logfiles of Oracle Application Server and Oracle AS SPI.

### OASSPI Error Log

This logfile policy monitors the OASSPI log file located at  
%OvAgentdir%\wasspi\oas\log\wasspi\_per1.log.

<b>Description</b>	Monitors the Oracle AS SPI error log and captures critical errors, which it sends to the Message Browser.
<b>Severity</b>	Critical
<b>Message Group</b>	OASSPI
<b>Help Text</b>	Available for each error as detected: WASSPI-1 through WASSPI-232. For detailed help text for all error messages, see Chapter 6 of <i>HP Operations Smart Plug-in for Oracle Application Server Installation and Configuration Guide</i> .

## OracleAS Log Template

<b>Description</b>	Catches critical errors and warnings in the Oracle Application Server log file.
<b>Severity</b>	Critical Warning
<b>Message Group</b>	OracleAS
<b>Help Text</b>	<b>Probable cause:</b> A message with the indicator 'Emergency' or 'Critical' 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. <b>Suggested action:</b> Examine the error and use the Oracle Application Server manuals or online help to determine the exact cause and action to take.

## OASSPI Java Discovery Error Log

This logfile policy monitors the OASSPI discovery error log file located at %OvAgentdir%\wasspi\oas\log\discovery.log.

<b>Description</b>	Monitors the OASSPI Java Discovery error log.
<b>Severity</b>	Normal Warning Major Critical
<b>Message Group</b>	OASSPI
<b>Help Text</b>	Available for each error as detected: WASSPI-1 through WASSPI-241. For detailed help text for all error messages, see Chapter 6 of <i>HP Operations Smart Plug-in for Oracle Application Server Installation and Configuration Guide</i> .

## OASSPI Java Collector Error Log

This logfile policy monitors the OASSPI collector error log file located at  
%OvAgentdir%\wasspi\oas\log\collector.log

<b>Description</b>	Monitors the OASSPI Java Collector error log.
<b>Severity</b>	Normal Warning Major Critical
<b>Message Group</b>	OASSPI
<b>Help Text</b>	Available for each error as detected: WASSPI-1 through WASSPI-241. For detailed help text for all error messages, see Chapter 6 of <i>HP Operations Smart Plug-in for Oracle Application Server Installation and Configuration Guide</i> .





# A Oracle AS SPI Golden Metrics

Golden metrics are a set of metrics which monitor the basic functionality of your Oracle Application Server. The golden metrics cover the critical areas (such as server status) for which you would like to receive messages as a critical or major event happens on the Oracle Application Server. Implementing golden metrics and taking action against the events generated by these metrics ensure the smooth functioning of the Oracle Application Server.

**Table 4 Golden Metrics**

<b>Metric Type</b>	<b>Metric Name</b>
Availability	Metric C001_ServerStatus
JVM (OC4J)	Metric C005_JVMMemUtilPct
Process	Metric C010_CPUUtilPct
	Metric C011_MemoryUtilPct
OHS	Metric C013_ServerStatus
ThreadPool	Metric C014_ThreadPoolUtil
	Metric C015_ThreadPoolWaitCnt
HTTP (OHS)	Metric C100_HTTPSvrActConn
JDBC	Metric J233_StlesSsnBnPIUt
	Metric J234_StfulSsnBnPIUtl
	Metric J235_EntityBnPIUtl
Servlet (OC4J)	Metric C240_SrvltAvgExecTim
Servlets	Metric C243_ServletReqRate
JSP (OC4J)	Metric C247_JSPActRequests
	Metric C248_JSPReqRate
JMS (OC4J)	Metric C251_JMSTotalMsgCt
Transactions	Metric C272_TranRollbackResourceRt
	Metric C273_TranRollbackAppRt
	Metric C274_TranRollbackTimedoutRt
	Metric C275_TranRollbackAdminRt
Web Context (OC4J)	Metric C281_WebCntxtActSess



## B Data Store Table for Oracle Application Server

The Oracle AS SPI creates the following data tables for Oracle AS SPI metrics in the data store on the node to facilitate the data-collection procedure.

**Table 5 Data Store Metrics of Oracle AS SPI**

Table Name	Area	Metric Description	Column Name
OASSPI_RPT_METRICS	Server	Status of the server	C002_ServerStatusRep
OASSPI_METRICS	JVM	Status of the server - reporting	C005_JVMMemUtilPct
OASSPI_METRICS OASSPI_RPT_METRICS	Server	Percentage of heap space used in the JVM	C010_CPUUtilPct
OASSPI_METRICS OASSPI_RPT_METRICS	Server	Percentage of CPU time utilized by the OHS server	C011_MemoryUtilPct
OASSPI_METRICS OASSPI_RPT_METRICS	JVM	Percent of the CPU time utilized by the HTTP server during the collection interval	C012_CPUUtilPctHTTP
OASSPI_METRICS OASSPI_RPT_METRICS	Server	The utilization of available connections in thread pool in percentage	C014_ThreadPoolUtil
OASSPI_METRICS OASSPI_RPT_METRICS	ThreadPool	Number of task(s) waiting in the queue for the availability of a thread	C015_ThrdPoolWaitCnt
OASSPI_METRICS OASSPI_RPT_METRICS	ThreadPool	Total number of EJB client active threads accessing the actual implementation of all methods for the entire server	C020_EJBClientActThreads
OASSPI_METRICS OASSPI_RPT_METRICS	EJB	Average time of EJB method clients spent inside the actual implementations of all methods (msec)	C021_EJBClientAvgExecTim

**Table 5 Data Store Metrics of Oracle AS SPI**

<b>Table Name</b>	<b>Area</b>	<b>Metric Description</b>	<b>Column Name</b>
OASSPI_METRICS OASSPI_RPT_METRICS	EJB	Total number of requests processed by the actual implementation of all EJB methods over the collection interval (per minute)	C022_EJBCCIcallsPrcRt
OASSPI_METRICS OASSPI_RPT_METRICS	EJB	Total number of EJB active threads accessing the automatically generated wrapper of all methods for the entire server	C030_EJBWrapActThrds
OASSPI_METRICS OASSPI_RPT_METRICS	EJB	Average time spent inside the automatically generated wrapper of all EJB methods (msec)	C031_EJBWrpAvExecTim
OASSPI_METRICS OASSPI_RPT_METRICS	EJB	Total number of requests processed by the automatically generated wrapper of all EJB methods over the collection interval (per minute)	C032_EJBWrpCallPrcRt
OASSPI_METRICS OASSPI_RPT_METRICS	WebModule	Total number of threads servicing all servlets	C042_SrvltActThreads
OASSPI_METRICS OASSPI_RPT_METRICS	WebModule	Total number of active requests for all JSPs	C047_JSPActRequests
OASSPI_METRICS OASSPI_RPT_METRICS	JMS	Frequency of the JMS connections created over the collection interval	C050_JMSConnCreated
OASSPI_METRICS OASSPI_RPT_METRICS	WebModule	Number of active HTTP connections	C100_HTTPSvrActConn
OASSPI_METRICS OASSPI_RPT_METRICS	WebModule	Average size of the response data (KB) per request completed by the HTTP server	C108_HTTPAvgRespSzRq

**Table 5 Data Store Metrics of Oracle AS SPI**

<b>Table Name</b>	<b>Area</b>	<b>Metric Description</b>	<b>Column Name</b>
OASSPI_METRICS OASSPI_RPT_METRICS	WebModule	Average size of the response data (KB) per request completed by the HTTP server virtual host	C109_HTTPVHAvRspSzRq
OASSPI_RPT_METRICS	EJB	Number of client active threads accessing the actual implementation of an EJB method	C220_EJBCLActThreads
OASSPI_METRICS OASSPI_RPT_METRICS	EJB	Average time spent inside the actual implementation of a specific EJB method (msec)	C221_EJBCLAvgExecTim
OASSPI_RPT_METRICS	EJB	Total number of requests processed by the actual implementation of methods for each EJB over the collection interval (per minute)	C222_EJBCLCallsPrcRt
OASSPI_RPT_METRICS	EJB	Number of active threads accessing the automatically generated wrapper of an EJB method	C230_EJBWrapActThrds
OASSPI_RPT_METRICS	EJB	Average time spent inside the automatically generated wrapper of a specific EJB method (msec)	C231_EJBWrpAvExecTim
OASSPI_RPT_METRICS	EJB	Total number of requests processed by the automatically generated wrapper of methods for each EJB over the collection interval (per minute)	C232_EJBWrpCallPrcRt
OASSPI_METRICS OASSPI_RPT_METRICS	EJB	Indicates Utilization of Stateless Session Bean Pool	J233_StlesSsnBnPIUtl
OASSPI_METRICS OASSPI_RPT_METRICS	EJB	Indicates Utilization of Stateful Session Bean Pool	J234_StfulSsnBnPIUtl

**Table 5 Data Store Metrics of Oracle AS SPI**

<b>Table Name</b>	<b>Area</b>	<b>Metric Description</b>	<b>Column Name</b>
OASSPI_METRICS OASSPI_RPT_METRICS	EJB	Indicates Utilization of Entity Bean Pool	J235_EntityBnPIUtl
OASSPI_RPT_METRICS	WebModule	Average time spent on the servlet's service() call (msec) over the collection interval	C240_SrvltAvgExecTim
OASSPI_RPT_METRICS	WebModule	Total time spent on the servlet's service() call (msec) over the collection interval	C241_SrvltExecTime
OASSPI_RPT_METRICS	WebModule	Current number of threads servicing the servlet	C242_SrvltActThreads
OASSPI_RPT_METRICS	WebModule	Number of requests for a servlet per second	C243_ServletReqRate
OASSPI_RPT_METRICS	WebModule	Average time to serve a JSP (msec) over the collection interval	C245_JSPAvgExecTime
OASSPI_RPT_METRICS	WebModule	Total time to serve a JSP (msec) over the collection interval	C246_JSPExecTime
OASSPI_RPT_METRICS	WebModule	Current number of active requests for the JSP	C247_JSPActRequests
OASSPI_RPT_METRICS	WebModule	Number of requests, per second, for a JSP	C248_JSPReqRate
OASSPI_RPT_METRICS	JMS	Total number of JMS messages contained in the message store	C251_JMSTotalMsgCt
OASSPI_RPT_METRICS	JDBC	Percentage of failed cache connection requests	C260_JDBCCachMissPct
OASSPI_RPT_METRICS	JDBC	Number of transactions rolled back, per second, because of an error in an enlisted resource	J272_TrnRollbkRsrcRt

**Table 5 Data Store Metrics of Oracle AS SPI**

<b>Table Name</b>	<b>Area</b>	<b>Metric Description</b>	<b>Column Name</b>
OASSPI_RPT_METRICS	JDBC	Number of transactions rolled back, per second, because of the application calling the setRollbackOnly or rollback processes explicitly per second	J273_TrnRollbkAppRt
OASSPI_RPT_METRICS	JDBC	Number of transactions rolled back, per second, because of timeout	J274_TrnRolbkTmoutRt
OASSPI_RPT_METRICS	JDBC	Number of transactions rolled back, per second, because of administrative action	J275_TrnRolbkAdminRt
OASSPI_METRICS OASSPI_RPT_METRICS	WebModule	Average time spent servicing web modules per request processed over the collection interval (msec)	C280_WebCntxtAvRqPrc
OASSPI_METRICS OASSPI_RPT_METRICS	WebModule	Current number of active sessions for a web module within an application	C281_WebCntxtActSess





# C Data Store Details for Reports

The Oracle AS SPI creates the following data store details for reports for Oracle Application Server.

**Table 6 Data Store for Reports**

Report Name	Report Table Name	Report Table Attributes	Data Store Class Name	Policy Logging Data
a_oas_availability.rpt g_oas_availability.rpt s_oas_availability_details.rpt a_oas_availability.rpt g_oas_availability.rpt s_oas_availability_details.rpt a_oas_availability.rpt g_oas_availability.rpt s_oas_availability_details.rpt	ORACLE_AS	ID	ORACLE_AS	OASSPI_OHS_05min OASSPI_OC4J_05min OASSPI_JMX_OC4J_05min
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		METRICID		
		OBJECTNAME		
		SERVERNAME		
		VALUE		
		APPLICATION		
INSTALLATION				
s_oas_sys_resource_util.rpt s_oas_sys_resource_util.rpt s_oas_sys_resource_util.rpt	ORACLE_AS	ID	ORACLE_AS	OASSPI_0010 OASSPI_OHS_05min OASSPI_OC4J_05min
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		METRICID		
		OBJECTNAME		
		SERVERNAME		
		VALUE		
		APPLICATION		
INSTALLATION				

**Table 6 Data Store for Reports**

Report Name	Report Table Name	Report Table Attributes	Data Store Class Name	Policy Logging Data
s_oas_sys_resource_util.rpt s_oas_sys_resource_util.rpt s_oas_sys_resource_util.rpt	ORACLE_AS	ID SYSTEMNAME DATETIME GMT SHIFTNAME METRICID OBJECTNAME SERVERNAME VALUE APPLICATION INSTALLATION	ORACLE_AS	OASSPI_0011 OASSPI_OHS_05min OASSPI_OC4J_05min
a_oas_ejb_meth_call_rate_top.rpt g_oas_ejb_meth_call_rate_top.rpt s_oas_ejb_meth_call_rate_top.rpt a_oas_ejb_meth_call_rate_top.rpt g_oas_ejb_meth_call_rate_top.rpt s_oas_ejb_meth_call_rate_top.rpt a_oas_ejb_meth_call_rate_top.rpt g_oas_ejb_meth_call_rate_top.rpt s_oas_ejb_meth_call_rate_top.rpt a_oas_ejb_meth_call_rate_top.rpt g_oas_ejb_meth_call_rate_top.rpt s_oas_ejb_meth_call_rate_top.rpt	ORACLE_AS	ID SYSTEMNAME DATETIME GMT SHIFTNAME METRICID OBJECTNAME SERVERNAME VALUE APPLICATION INSTALLATION	ORACLE_AS	OASSPI_OC4J_1h

**Table 6 Data Store for Reports**

Report Name	Report Table Name	Report Table Attributes	Data Store Class Name	Policy Logging Data
a_oas_servlet_act_thre ads.rpt g_oas_servlet_act_thre ads.rpt a_oas_servlet_act_thre ads.rpt g_oas_servlet_act_thre ads.rpt a_oas_servlet_act_thre ads.rpt g_oas_servlet_act_thre ads.rpt	ORACLE_AS	ID SYSTEMNAME DATETIME GMT SHIFTNAME METRICID OBJECTNAME SERVERNAME VALUE APPLICATION INSTALLATIO N	ORACLE_AS	OASSPI_OC4J _1h
s_oas_ohs_connections. rpt s_oas_ohs_connections. rpt s_oas_ohs_connections. rpt	ORACLE_AS	ID SYSTEMNAME DATETIME GMT SHIFTNAME METRICID OBJECTNAME SERVERNAME VALUE APPLICATION INSTALLATIO N	ORACLE_AS	OASSPI_0100 OASSPI_OHS_ 15min

**Table 6 Data Store for Reports**

Report Name	Report Table Name	Report Table Attributes	Data Store Class Name	Policy Logging Data
a_oas_servlet_avg_execution_time.rpt g_oas_servlet_avg_execution_time.rpt s_oas_servlet_avg_execution_time.rpt a_oas_servlet_avg_execution_time.rpt g_oas_servlet_avg_execution_time.rpt s_oas_servlet_avg_execution_time.rpt a_oas_servlet_avg_execution_time.rpt g_oas_servlet_avg_execution_time.rpt s_oas_servlet_avg_execution_time.rpt a_oas_servlet_avg_execution_time.rpt g_oas_servlet_avg_execution_time.rpt s_oas_servlet_avg_execution_time.rpt	ORACLE_AS	ID	ORACLE_AS	OASSPI_0240 OASSPI_OC4J_1h
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		METRICID		
		OBJECTNAME		
		SERVERNAME		
		VALUE		
		APPLICATION		
		INSTALLATION		
		s_oas_db_conn_cache_util.rpt s_oas_db_conn_cache_util.rpt s_oas_db_conn_cache_util.rpt		
SYSTEMNAME				
DATETIME				
GMT				
SHIFTNAME				
METRICID				
OBJECTNAME				
SERVERNAME				
VALUE				
APPLICATION				
INSTALLATION				

**Table 6 Data Store for Reports**

Report Name	Report Table Name	Report Table Attributes	Data Store Class Name	Policy Logging Data
s_oas_oc4j_webcntx_sessions.rpt s_oas_oc4j_webcntx_sessions.rpt s_oas_oc4j_webcntx_sessions.rpt	ORACLE_AS	ID	ORACLE_AS	OASSPI_0281 OASSPI_OC4J_15min
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		METRICID		
		OBJECTNAME		
		SERVERNAME		
		VALUE		
		APPLICATION		
INSTALLATION				



## D Data Store Details for Graphs

The Oracle AS SPI creates the following data store details for graphs for Oracle Application Server.

**Table 7 Data Store for Graphs**

<b>Graph Name</b>	<b>Policy Logging Data</b>	<b>Spec File</b>	<b>Data StoreData Class</b>
JVM Memory Utilization	OASSPI_0005 OASSPI_OC4J_05min OASSPI_JMX_OC4J_05min	wasspi_oas_graph.sp	wasspi_oas_graph
CPU and Memory Utilization	OASSPI_0010 OASSPI_OHS_05min OASSPI_OC4J_05min	wasspi_oas_graph.sp	wasspi_oas_graph
Oracle Container for J2EE EJB Threads	OASSPI_OC4J_1h	wasspi_oas_graph.sp	wasspi_oas_graph
Oracle Container for J2EE EJB Execution Time	OASSPI_OC4J_1h	wasspi_oas_graph.sp	wasspi_oas_graph
Oracle Container for J2EE EJB Calls Process Rate	OASSPI_OC4J_1h	wasspi_oas_graph.sp	wasspi_oas_graph
Oracle Container for J2EE Servlet	OASSPI_OC4J_1h	wasspi_oas_graph.sp	wasspi_oas_graph
Oracle Container for J2EE JSP	OASSPI_OC4J_1h	wasspi_oas_graph.sp	wasspi_oas_graph
JMS Connections	OASSPI_0050 OASSPI_OC4J_15min	wasspi_oas_graph.sp	wasspi_oas_graph
HTTP Server Active Connections	OASSPI_0100 OASSPI_OHS_15min	wasspi_oas_graph.sp	wasspi_oas_graph

**Table 7 Data Store for Graphs**

<b>Graph Name</b>	<b>Policy Logging Data</b>	<b>Spec File</b>	<b>Data StoreData Class</b>
HTTP Server Response Data	OASSPI_OHS_15min	wasspi_oas_graph.sp	wasspi_oas_graph
Oracle Container for J2EE Web Context Request	OASSPI_0280 OASSPI_OC4J_15min	wasspi_oas_graph.sp	wasspi_oas_graph
Oracle Container for J2EE Web Context Sessions	OASSPI_0281 OASSPI_OC4J_15min	wasspi_oas_graph.sp	wasspi_oas_graph



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