

HP OpenView Smart Plug-in for Oracle Application Server

For the HP-UX and Solaris OpenView Operations Management Servers

Software Version: 04.20.000

Reference

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1 Oracle Application Server Metrics

This chapter provides detailed and summary listings of the HP OpenView Smart Plug-in for Oracle Application Server (OAS-SPI) metrics and provides descriptions and other relevant information that help you interpret the incoming OAS-SPI data. The information here should also prove valuable for customizing metric templates. The chapter contains the following sections:

- Metric Summary
- Metric Details

Metric Summary

OAS-SPI metric templates have pre-defined settings that simplify setup tasks for the OAS-SPI. Over time, however, you may want to customize some of those settings. This and the section that follows provide the basic pieces of information you need for those customizations.

For easy reference, the tables on the following pages list all metrics contained in the chapter. Following the metric summary table are individual metric details for every Oracle Application Server metric and, when available, its monitor template settings. For metrics used for reporting or graphing only, no monitor settings exist, hence the setting is labeled "N/A" (not applicable).

Metric Summary Sheet: Columns Key

The summary list assists you in quickly finding a metric and its most basic information. Following the summary list are individual metric details which include settings for alarming metrics with parallel monitor templates.

Metric Number	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 OAS; for example 225 = C225.
Metric Name	The metric name in abbreviated form; for example, EJBTranRbPct = EJB Transaction Rollback Percent.
Description	What the collected metric value represents.
Avail. OAS Version	Oracle Application Server version in which the metric is available. For example, version 9.0.4, 10.1.2, or all.
Type	The purpose for which the metric is collected: A = Alarming R = Reporting G = Graphing
Severity	The severity of the exceeded threshold condition (Critical, Major, Minor, Warning, Normal).
Area	The logical area of Oracle Application Server in which the metric belongs.

Figure 1-1 Metric Summary (page 1 of 4)

Number	Metric Name	Description	Avail.	OAS Version	Type	Severity	Area
1	C001_ServerStatus	Status of the server	All	A	Critical		Availability
2	C002_ServerStatusRep	Status of the server - reporting	All	R			Availability
5	C005_JVMemUtilPct	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)
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)

Figure 1-2 Metric Summary (page 2 of 4)

Number	Metric Name	Description	Avail.	OAS Version	Type	Severity	Area
30	C030_EJBWrapActThrs	Total number of EJB active threads accessing the automatically generated wrapper of all methods for the entire server	All	GR			EJB (OC4J)
230	C230_EJBWrapActThrs	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_EJBWrpCallPrcRt	Total number of requests processed by the automatically generated wrapper of all EJB methods over the collection interval (per minute)	All	GR			EJB (OC4J)
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)

Figure 1-3 Metric Summary (page 3 of 4)

Number	Metric Name	Description	Avail.	OAS Version	Type	Severity	Area
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)
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 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)

Figure 1-4 Metric Summary (page 4 of 4)

Number	Metric Name	Description	Avail. OAS Version	Type	Severity	Area
100	C100_HTTPSvrActConn	Number of active HTTP connections	All	GRA	Warning	HTTP (OHS)
108	C108_HTTPAvgRespSzRq	Average size of the response data (KB) per request completed by the HTTP server	All	GR		HTTP (OHS)
109	C109_HTTPVHAvrRspSzRq	Average size of the response data (KB) per request completed by the HTTP server virtual host	All	GR		HTTP (OHS)

Metric Specification Description

Each metric definition heading denotes a Oracle Application Server metric number. The "C" that precedes the metric number designates the metric as an OAS-SPI metric.

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

OAS-SPI metrics can then be identified as CXXX, where XXX represents the number assigned to the metric. The parallel metric monitor template name omits the "C" and begins with "OASSPI" followed by an underscore and the metric number. Zeroes are used as necessary to total a four-digit number; for example, metric number C001 = monitor template OASSPI_0001

Application Bank reports use the metric number and name; for example, for metric 5, the report is identified as C005_JVMMemUtilPct.

Monitor Template Name	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.
Metric Name	The name assigned to the metric.
Metric Type	Shows how the metric is used: <ul style="list-style-type: none">• Alarming (using monitor template settings),• Reporting (within a report of the separately purchased HP OpenView Reporter), and/or• Graphing (within a graph of the separately purchased HP OpenView Performance).
Description	What the metric represents.
Avail. OAS Version	The Oracle Application Server version for which the metric is available.

Severity: Condition with Threshold	<p>The severity of the exceeded threshold condition (Critical, Major, Minor, Warning, Normal) and default threshold for metrics with parallel monitor templates.</p> <p>If multiple conditions—for example, graduated thresholds—are defined within the metric, severity levels are identified according to the specific condition.</p> <p>Metrics with a threshold value of 0 are set at 0.5 because OVO alarms must occur at \leq or \geq values. Since a 0 value would always trigger an alarm, the threshold is set to 0.5.</p>
Collection Interval	How often the metric is collected and analyzed (5 min, 15 min, 1 hour, 1 time daily).
OVO Threshold Type	<p>The type of threshold for a monitor that causes a message to be generated:</p> <ul style="list-style-type: none"> • Minimum - a message is generated if the monitored value equals or drops below the minimum acceptable limit. • Maximum - a message is generated if the monitored value equals or exceeds the maximum limit.
OVO Message Generation	Describes how alarms/messages are generated. Because this setting is the same for all Oracle Application Server metrics (without reset), it is omitted. 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.
Message Group	The OVO message group to which the metric belongs. (OASSPI = conditions occurring in the OAS-SPI and OracleAS= conditions occurring in the Oracle Application Server).
Message Text	The message displayed for each condition.
Instruction Text	Problem-solving information (Probable causes, Potential impact, Suggested actions, and Reports).

Report Type	<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"> • Application Bank - Reports can be generated from the Application Bank in OVO and are created for all Oracle OC4J/OHS server instances on the managed node. • 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). • 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. • N/A - No report nor graph is planned. <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 OVO template for Operator-initiated nor Automatic actions. They are ONLY available in the Application Bank.</p>
Area	<p>The logical area to which the metric belongs (Availability, Process, EJB, Servlet, JSP, JMS, JDBC, Web Context, HTTP).</p>

Metric C001_ServerStatus

Monitor Template Name	OASSPI_0001
Metric Name	C001_ServerStatus
Metric Type	Alarming
Description	Status of the server.
Avail. 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 minutes
OVO 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	<p>For each server, this metric reports the status of the HTTP server and the OC4J components for the Oracle Application Server (OAS).</p> <p>Probable cause: If the server is not in the Alive state, the following events may have occurred:</p> <ol style="list-style-type: none"> 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. <p>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.</p> <p>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.</p> <p>If the server has been stopped, it may have been placed in this state for a reason.</p>
Report Type	
Area	Availability

Metric C002_ServerStatusRep

Monitor Template Name	N/A—Used in a report generated by HP OpenView Reporter
Metric Name	C002_ServerStatusRep
Metric Type	Reporting
Description	Status of server—reporting
Avail. OAS Version	All
Severity: Condition with Threshold	N/A
Collection Interval	5 minutes
OVO Threshold Type	N/A
Message Group	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	N/A—Used in a report generated by HP OpenView Reporter
Area	Availability

Metric C005_JVMMemUtilPct

Monitor Template Name	OASSPI_0005
Metric Name	C005_JVMMemUtilPct
Metric Type	Alarming, Graphing
Description	Percentage of heap space used in the JVM.
Avail. OAS Version	All
Severity: Condition with Threshold	Critical: OASSPI-0005.1, threshold 98 for 20 minutes Major: OASSPI-0005.2, threshold 95 for 20 minutes
Collection Interval	5 minutes
OVO Threshold Type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0005.x: % of heap space used (<\$VALUE>%) too high (>=<\$THRESHOLD>%)
Instruction Text	<p>The JVM is running out of available heap space.</p> <p>Probable cause: The JVM heap size may be set too low for the client load.</p> <p>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.</p> <p>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>

Instruction Text (cont.)	<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>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 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> <p style="text-align: center;">-Xms<size>m -Xmx<size>m</p> <p>where <size> 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>
Report Type	Automatic
Area	JVM (OC4J)

Metric C010_CPUUtilPct

Monitor Template Name	OASSPI_0010
Metric Name	C010_CPUUtilPct
Metric Type	Alarming, Graphing, Reporting
Description	Percentage of the CPU time utilized by the OHS server.
Avail. OAS Version	All
Severity: Condition with Threshold	Critical: OASSPI-0010.1, threshold 98 for 20 minutes Warning: OASSPI-0010.2, threshold 95 for 20 minutes
Collection Interval	5 minutes
OVO Threshold Type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0010.x: % of CPU used (<\$VALUE>%) too high (>=<\$THRESHOLD>%)

Instruction Text	<p>Oracle HTTP Server (OHS) Component</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>For the OC4J Component</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>
Report Type	Automatic
Area	Process

Metric C011_MemoryUtilPct

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

Instruction Text	<p>Oracle HTTP Server (OHS) Component</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>OC4J Component</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>
Report Type	Automatic
Area	Process

Metric C020_EJBClientThreads

Monitor Template Name	OASSPI_020
Metric Name	C020_EJBClientThrd
Metric Type	Reporting, Graphing
Description	Total number of EJB client active threads accessing the actual implementation of all methods for the entire server.
Avail. OAS Version	All
Severity: Condition with Threshold	N/A
Collection Interval	1 hour
OVO Threshold Type	N/A
Message Group	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	N/A
Area	EJB (OC4J)

Metric C220_EJBCLActThreads

Monitor Template 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.
Avail. OAS Version	All
Severity: Condition with Threshold	Warning: OASSPI-0220.1, threshold 100
Collection Interval	1 hour
OVO Threshold Type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0220.1: Number of EJB method client threads (<\$VALUE>) too high (>=<\$THRESHOLD>)
Instruction Text	The specific EJB method within an application that caused the violation can be found in the object field of the message. Refer to the <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
Report Type	Automatic
Area	EJB (OC4J)

Metric C021_EJBCLAvgExecTim

Monitor Template Name	OASSPI_021
Metric Name	C021_EJBCLAvgExecTim
Metric Type	Reporting, Graphing
Description	Average time (in milliseconds) of EJB method clients spent inside the actual implementations of all methods.
Avail. OAS Version	All
Severity: Condition with Threshold	N/A
Collection Interval	1 hour
OVO Threshold Type	N/A
Message Group	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	N/A
Area	EJB (OC4J)

Metric C221_EJBCLAvgExecTim

Monitor Template Name	OASSPI_221
Metric Name	C221_EJBCLAvgExecTim
Metric Type	Alarming, Reporting
Description	Average time (in milliseconds) spent inside the actual implementation of a specific EJB method.
Avail. OAS Version	All
Severity: Condition with Threshold	Major: OASSPI-0221.1, threshold 5,000 Warning: OASSPI-0221.2, threshold 1,000
Collection Interval	1 hour
OVO Threshold Type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0221.x: Average execution time for EJB method (<\$VALUE> msecs) too high (>=<\$THRESHOLD> msecs)
Instruction Text	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 <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
Report Type	Automatic
Area	EJB (OC4J)

Metric C022_EJBCICallsPrcRt

Monitor Template Name	OASSPI_022
Metric Name	C022_EJBCICallsPrcRt
Metric Type	Reporting, Graphing
Description	Total number of requests (per minute) processed by the actual implementation of all EJB methods over the collection interval.
Avail. OAS Version	All
Severity: Condition with Threshold	N/A
Collection Interval	1 hour
OVO Threshold Type	N/A
Message Group	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	N/A
Area	EJB (OC4J)

Metric C222_EJBICallsPrcRt

Monitor Template Name	OASSPI_222
Metric Name	C222_EJBICallsPrcRt
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.
Avail. OAS Version	All
Severity: Condition with Threshold	Warning: OASSPI-0221.1, threshold 10,000
Collection Interval	1 hour
OVO 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)
Instruction Text	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 <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
Report Type	Automatic
Area	EJB (OC4J)

Metric C030_EJBWrapActThrds

Monitor Template Name	OASSPI_030
Metric Name	C030_EJBWrapActThrds
Metric Type	Reporting, Graphing
Description	Total number of EJB active threads accessing the automatically generated wrapper of all methods for the entire server.
Avail. OAS Version	All
Severity: Condition with Threshold	N/A
Collection Interval	1 hour
OVO Threshold Type	N/A
Message Group	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	N/A
Area	EJB (OC4J)

Metric C230_EJBWrapActThrds

Monitor Template Name	OASSPI_230
Metric Name	C230_EJBWrapActThrds
Metric Type	Alarming, Reporting
Description	Number of active threads accessing the automatically generated wrapper of an EJB method.
Avail. OAS Version	All
Severity: Condition with Threshold	Warning: OASSPI-0230.1, threshold 100
Collection Interval	1 hour
OVO Threshold Type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0230.1: Number of EJB wrapper method threads (<\$VALUE>) too high (>=<\$THRESHOLD>)
Instruction Text	The specific EJB method within an application that caused the violation can be found in the object field of the message. Refer to the <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
Report Type	Automatic
Area	EJB (OC4J)

Metric C031_EJBWrpAvExecTim

Monitor Template Name	OASSPI_031
Metric Name	C031_EJBWrpAvExecTim
Metric Type	Reporting, Graphing
Description	Average time (in milliseconds) spent inside all automatically generated wrapper of all EJB methods.
Avail. OAS Version	All
Severity: Condition with Threshold	N/A
Collection Interval	1 hour
OVO Threshold Type	N/A
Message Group	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	N/A
Area	EJB (OC4J)

Metric C231_EJBWrpAvExecTim

Monitor Template Name	OASSPI_231
Metric Name	C231_EJBWrpAvExecTim
Metric Type	Alarming, Reporting
Description	Average time (in milliseconds) spent inside the automatically generated wrapper of a specific EJB method.
Avail. OAS Version	All
Severity: Condition with Threshold	Major: OASSPI-0231.1, threshold 5,000 Warning: OASSPI-0231.2, threshold 1,000
Collection Interval	1 hour
OVO Threshold Type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0231.x: Average execution time for EJB wrapper method (<\$VALUE> msecs) too high (>=<\$THRESHOLD> msecs)
Instruction Text	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 <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
Report Type	Automatic
Area	EJB (OC4J)

Metric C032_EJBWrpCallPrcRt

Monitor Template Name	OASSPI_032
Metric Name	C032_EJBWrpCallPrcRt
Metric Type	Reporting, Graphing
Description	Total number of requests processed (per minute) by the automatically generated wrapper of all EJB methods over the collection interval.
Avail. OAS Version	All
Severity: Condition with Threshold	N/A
Collection Interval	1 hour
OVO Threshold Type	N/A
Message Group	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	N/A
Area	EJB (OC4J)

Metric C232_EJBWrpCallPrcRt

Monitor Template Name	OASSPI_232
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.
Avail. OAS Version	All
Severity: Condition with Threshold	Warning: OASSPI-0232.1, threshold 10,000
Collection Interval	1 hour
OVO 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)
Instruction Text	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 <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
Report Type	Automatic
Area	EJB (OC4J)

Metric C240_SrvltAvgExecTim

Monitor Template Name	OASSPI_240
Metric Name	C240_SrvltAvgExecTim
Metric Type	Alarming, Reporting
Description	Average time spent (in milliseconds) on the servlet's service() call over the collection interval.
Avail. OAS Version	All
Severity: Condition with Threshold	Major: OASSPI-0240.1, threshold 5,000 Warning: OASSPI-0240.2, threshold 1,000
Collection Interval	1 hour
OVO Threshold Type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0240.x: Average execution time for the servlet (<\$VALUE> msecs) too high (>=<\$THRESHOLD> msecs)
Instruction Text	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 <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
Report Type	Automatic
Area	Servlet (OC4J)

Metric C241_SrvltExecTime

Monitor Template Name	OASSPI_241
Metric Name	C241_SrvltExecTime
Metric Type	Reporting
Description	Total time (in milliseconds) spent on the servlet's service() call over the collection interval.
Avail. OAS Version	All
Severity: Condition with Threshold	N/A
Collection Interval	1 hour
OVO Threshold Type	N/A
Message Group	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	N/A
Area	Servlet (OC4J)

Metric C042_SrvltActThreads

Monitor Template Name	OASSPI_042
Metric Name	C042_SrvltActThreads
Metric Type	Reporting, Graphing
Description	Total number of threads servicing all servlets.
Avail. OAS Version	All
Severity: Condition with Threshold	N/A
Collection Interval	1 hour
OVO Threshold Type	N/A
Message Group	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	N/A
Area	Servlet (OC4J)

Metric C242_SrvltActThreads

Monitor Template Name	OASSPI_242
Metric Name	C242_SrvltActThreads
Metric Type	Alarming, Reporting
Description	Current number of threads servicing the servlet.
Avail. OAS Version	All
Severity: Condition with Threshold	Warning: OASSPI-0242.1, threshold 10,000
Collection Interval	1 hour
OVO Threshold Type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0242.1: Number of servlet active threads (<\$VALUE>) too high (>=<\$THRESHOLD>)
Instruction Text	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 <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
Report Type	Automatic
Area	Servlet (OC4J)

Metric C245_JSPAvgExecTime

Monitor Template Name	OASSPI_245
Metric Name	C245_JSPAvgExecTime
Metric Type	Alarming, Reporting
Description	Average time to serve a JSP (in milliseconds) over the collection interval.
Avail. OAS Version	All
Severity: Condition with Threshold	Major: OASSPI-0245.1, threshold 5,000 Warning: OASSPI-0245.2, threshold 1,000
Collection Interval	1 hour
OVO Threshold Type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0245.1: Average service time for the JSP (<\$VALUE> msecs) too high (>=<\$THRESHOLD> msecs)
Instruction Text	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 <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
Report Type	Automatic
Area	JSP (OC4J)

Metric C246_JSPExecTime

Monitor Template Name	OASSPI_246
Metric Name	C246_JSPExecTime
Metric Type	Reporting
Description	Total time to serve a JSP (in milliseconds) over the collection interval.
Avail. OAS Version	All
Severity: Condition with Threshold	N/A
Collection Interval	1 hour
OVO Threshold Type	N/A
Message Group	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	N/A
Area	JSP (OC4J)

Metric C047_JSPActRequests

Monitor Template Name	OASSPI_047
Metric Name	C047_JSPActRequests
Metric Type	Reporting, Graphing
Description	Total number of active requests for all JSPs.
Avail. OAS Version	All
Severity: Condition with Threshold	N/A
Collection Interval	1 hour
OVO Threshold Type	N/A
Message Group	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	N/A
Area	JSP (OC4J)

Metric C247_JSPActRequests

Monitor Template Name	OASSPI_247
Metric Name	C245_JSPActRequests
Metric Type	Alarming, Reporting
Description	Current number of active requests for the JSP.
Avail. OAS Version	All
Severity: Condition with Threshold	Warning: OASSPI-0247.1, threshold 10,000
Collection Interval	1 hour
OVO Threshold Type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0247.1: Number of JSP requests (<\$VALUE>) too high (>=<\$THRESHOLD>)
Instruction Text	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 <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
Report Type	Automatic
Area	JSP (OC4J)

Metric C050_JMSConnCreated

Monitor Template Name	OASSPI_050
Metric Name	C050_JMSConnCreated
Metric Type	Alarming, Reporting, Graphing
Description	Frequency of the JMS connections created over the collection interval.
Avail. OAS Version	All
Severity: Condition with Threshold	Critical: OASSPI-0050.1, threshold 98
Collection Interval	15 minutes
OVO Threshold Type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0050.1: Number of JMS connections created (<\$VALUE>) too high (>=<\$THRESHOLD>)
Instruction Text	This metric monitors the load of JMS connection on the system. Refer to the <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
Report Type	Automatic
Area	JMS (OC4J)

Metric C251_JMSTotalMsgCt

Monitor Template Name	OASSPI_251
Metric Name	C251_JMSTotalMsgCt
Metric Type	Alarming, Reporting
Description	Total number of messages contained in the message store.
Avail. OAS Version	All
Severity: Condition with Threshold	Critical: OASSPI-0251.1, threshold 100
Collection Interval	15 minutes
OVO Threshold Type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0251.1: Number of JMS messages in the store (<\$VALUE>) too high (>=<\$THRESHOLD>)
Instruction Text	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 <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
Report Type	Automatic
Area	JMS (OC4J)

Metric C260_JDBCcacheMissPct

Monitor Template Name	OASSPI_260
Metric Name	C260_JDBCcacheMissPct
Metric Type	Alarming, Reporting
Description	Percentage of failed cache connection requests.
Avail. OAS Version	All
Severity: Condition with Threshold	Major: OASSPI-0260.1, threshold 90 Warning: OASSPI-0260.2, threshold 80
Collection Interval	5 minutes
OVO Threshold Type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0260.x: JDBC connection cache misses (<\$VALUE>%) too high (>=<\$THRESHOLD>%)
Instruction Text	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 <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
Report Type	Automatic
Area	JDBC (OC4J)

Metric C280_WebCntxtAvRqPrc

Monitor Template Name	OASSPI_280
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.
Avail. OAS Version	All
Severity: Condition with Threshold	Major: OASSPI-0280.1, threshold 5,000 Warning: OASSPI-0280.2, threshold 1,000
Collection Interval	15 minutes
OVO Threshold Type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0280.x: Average Web context request processing time (<\$VALUE> msecs) too high (>=<\$THRESHOLD> msecs)
Instruction Text	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 <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
Report Type	Automatic
Area	Web Context (OC4J)

Metric C281_WebCntxtActSess

Monitor Template Name	OASSPI_281
Metric Name	C281_WebCntxtActSess
Metric Type	Alarming, Reporting, Graphing
Description	Current number of active sessions for a web module within an application.
Avail. OAS Version	All
Severity: Condition with Threshold	Warning: OASSPI-0281.1, threshold 10,000
Collection Interval	15 minutes
OVO Threshold Type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0281.1: Number of Web context active sessions (<\$VALUE>) too high (>=<\$THRESHOLD>)
Instruction Text	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 to the <i>Oracle Application Server Performance Guide</i> for information on tuning the performance of the application server.
Report Type	Automatic
Area	Web Context (OC4J)

Metric C100_HTTPSvrActConn

Monitor Template Name	OASSPI_0100
Metric Name	C100_HTTPSvrActConn
Metric Type	Alarming, Reporting, Graphing
Description	Number of active HTTP connections.
Avail. OAS Version	All
Severity: Condition with Threshold	Warning: OASSPI-0100.1, threshold 100
Collection Interval	15 minutes
OVO Threshold Type	Maximum
Message Group	OracleAS
Message Text	OASSPI-0100.1: Number of active HTTP connections (<\$VALUE>) too high (>=<\$THRESHOLD>)
Instruction Text	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.
Report Type	Automatic
Area	HTTP (OHS)

Metric C108_HTTPAvgRespSzRq

Monitor Template Name	OASSPI_0108
Metric Name	C108_HTTPAvgRespSzRq
Metric Type	Reporting, Graphing
Description	Average size of the response data (in kilobytes) per request completed by the HTTP server.
Avail. OAS Version	All
Severity: Condition with Threshold	N/A
Collection Interval	15 minutes
OVO Threshold Type	N/A
Message Group	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	N/A
Area	HTTP (OHS)

Metric C109_HTTPVHAvRspSzRq

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

2 OAS-SPI Log File and Configuration File Templates

This section shows the Smart Plug-in for Oracle Application Server (OAS-SPI) templates that monitor logged information occurring in both the Oracle Application Server and OAS-SPI files.

OASSPI Error Log

Description	Monitors the OAS-SPI error log and captures critical errors, which it sends to the Message Browser.
Severity	Critical
Message Group	OASSPI
Help Text	Available for each error as detected: WASSPI-1 through WASSPI-232. See the <i>HP OpenView Smart Plug-in for Oracle Application Server Configuration Guide</i> , Chapter 6, for detailed Help text for each error with a WASSPI prefix. Each error's Help text is covered in Chapter 6.

OracleAS Log Template

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

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