HP Operations Smart Plug-in for BEA WebLogic Server

for HP Operations Manager for UNIX®

Software Version: 7.00

Reference Guide

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Contents

1 WebLogic SPI Policies

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

The chapter contains the following sections:

- Metric Summary
- Metric Details

WebLogic SPI Metrics

Metric Summary

WebLogic SPI metric policies have pre-defined settings that simplify setup tasks for the WebLogic SPI. However, you may want to customize these settings depending on your environment. This section and Metric Details on page 20 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 WebLogic Server metric and, when available, its monitor template settings. No monitor settings 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

Metric Number	The number assigned to the metric; for example 25 = B025. Numbers in the 200 range are for drill down metrics that collect values on a single instance of WebLogic Server; for example 225 = B225.
Metric Name	The metric name in abbreviated form; for example, EJBTranRbPct = EJB Transaction Rollback Percent.
Description	What the collected metric value represents.
Avail. WebLogic Server Version	WebLogic Server version in which the metric is available (9.x, 10.x).
Type	The purpose for which the metric is collected: A = Alarming R = Reporter reporting G = Reporter graphing
Area	The logical area of WebLogic Server in which the metric belongs.

Table 2   Metric Summary

No	Metric Name	Description	Avail. WLS Version	Type	Severity	Area
1	B001_ServerStatus	Status of a server	All	A	Critical Warning	Availability
2	B002_ServerStatusRep	Status of a server - reporting	All	R		Availability
5	B005_JVMMemUtilPct	% of heap space used in the JVM	All	GA	Critical Major	JVM
10	B010_ExQueThruRate	# of requests serviced by an execute queue per second	All	GR		Performance
11	B011_ExQThrdUtilPct	% of threads in use for a server's execute queue.	All	GRA	Critical Major Minor	Performance
12	B012_ExQueWaitCnt	# of client requests waiting to be serviced	All	GA	Minor	Performance
13	B013_SocketTrafficRt	# of socket connections opened per second	All	G		Performance
14	B014_ActiveSocketCnt	# of socket connections opened	All	GA	Minor	Performance
15	B015_SrvrRestartsPct	% of permissible restarts	All	GA	Critical Warning	Performance
16	B016_GloThrePoolOverload	Global Thread Pool Overload Condition	All	A	Critical	Performance
17	B017_WorkloadMgrOverload	Workload Manager Overload Condition	All	A	Critical	Performance

Table 2   Metric Summary

No	Metric Name	Description	Avail. WLS Version	Type	Severity	Area
25	B025_EJBFreePoolWtRt	# of times no EJB beans were available from the free pool per minute	All	GRA	Warning	EJB
225	B225_EJBFreePoolWait Rate	# of times no EJB beans were available from the free pool (drill down) per minute	All	A	Warning	EJB
26	B026_EJBTimeoutRt	# of times a client timed out waiting for an EJB bean per minute	All	GRA	Warning	EJB
226	B226_EJBTimeoutRate	# of times a client timed out waiting for an EJB bean (drill down) per minute	All	A	Warning	EJB
35	B035_EJBTranThruRt	# of EJB transactions per second	All	GRA	Warning	EJB
36	B036_EJBTranRbRt	# of EJB transactions rolled back per second	All	GRA	Warning	EJB
238	B238_EJBCacheHitPct	% of EJBs in the cache in use	All	RA	Warning	EJB
240	B240_ServletAveExecTi me	Ave execution time for a servlet in msec	All	RA	Warning	Servlets
241	B241_ServletTimeCnt	Time spent in a servlet	All	R		Servlets

Table 2   Metric Summary

No	Metric Name	Description	Avail. WLS Version	Type	Severity	Area
242	B242_ServletReqRate	# of requests for a servlet per second	All	RA	Warning	Servlets
245	B245_WebAppSessionCnt	# of open sessions for a web application	All	RA	Warning	Web Applications
246	B246_WebAppHitRt	# of open sessions for a web application per second	All	R		Web Applications
251	B251_JMSUtilByMessagePct	% of JMS server filled based on # of All messages	All	RA	Critical Major	JMS
252	B252_JMSUtilByBytePct	% of the JMS server filled, based on total bytes	All	RA	Critical Major	JMS
253	B253_JMSThreshByMessagePct	% of time server threshold condition satisfied based on # of messages	All	RA	Warning	JMS
254	B254_JMSThreshByBytePct	% of time server threshold condition satisfied based on total bytes	All	RA	Warning	JMS
255	B255_JMSServerThruMessageRt	# of messages passed through JMS server per second	All	R		JMS
256	B256_JMSServerThruByteRt	# of bytes passed through JMS server per second	All	R		JMS

Table 2   Metric Summary

No	Metric Name	Description	Avail. WLS Version	Type	Severity	Area
260	B260_JDBCConnectionPoolUtil	% utilization of available JDBC connections in connection pool	All	RA	Critical Major	JDBC
61	B061_JDBCConPlWtCnt	# of clients waiting for a connection from connection pools	All	GA	Warning	JDBC
262	B262_JDBCConnectionPoolThruRt	# of clients serviced by connection pool per second	All	R		JDBC
63	B063_JDBCConnectionPoolLeakedConnectionsRtSum	# of unclosed JDBC connections and JDBC connections that have exceeded their max idle times	All	G		JDBC
263	B263_JDBCConnectionPoolLeakedConnectionsRt	Rate of leaked connections for the JDBC connection pool	All	RA	Warning	JDBC
264	B264_JDBCConnectionPoolFailures	JDBC connection pool failures	All	A	Warning	JDBC
265	B265_JDBCConnectionPoolAvgConnectionDelayTime	JDBC connection pool connection delay	All	RA	Warning	JDBC
70	B070_TranAveTime	Average commit time for transactions	All	GRA	Minor	Transactions

Table 2   Metric Summary

No	Metric Name	Description	Avail. WLS Version	Type	Severity	Area
270	B270_ConnectorConnectionPoolUtil	% utilization of available JCA connections in connection pool	All	RA	Critical Major	Connector
71	B071_TranRollbackPct	% of transactions rolled back	All	GRA	Minor	Transactions
72	B072_TranResErrRbPct	% of transactions rolled back due to resource error	All	GRA	Minor	Transactions
73	B073_TranAppErrRbPct	% of transactions rolled back due to an application error	All	GRA	Minor	Transactions
74	B074_TranTimErrRbPct	% of transactions rolled back due to timeout error	All	GRA	Minor	Transactions
75	B075_TranSysErrRbPct	% of transactions rolled back due to system error	All	GRA	Minor	Transactions
76	B076_TranThruRate	# of transactions processed per second	All	GR		Transactions
77	B077_TranHeurCnt	% of transactions returning a heuristic decision	All	GRA	Minor	Transactions

Table 2   Metric Summary

No	Metric Name	Description	Avail. WLS Version	Type	Severity	Area
78	B078_ConnectorConnectionPoolLeakedConnRateSum	# of unclosed connector connections and ones that have exceeded their max idle time	All	G		Connector
278	B278_ConnectorConnectionPoolLeakedConnRate	Rate of leaked connections for the JCA connection pool	All	RA	Warning	Connector
79	B079_TranCapacityUtil	% utilization of transaction capacity	All	GRA	Critical Major	Transactions
80	B080_ClsOutMesFailRt	# of multicast messages to cluster that were re-sent per minute	All	GA	Minor	Cluster
81	B081_ClsInMesFailRt	# of multicast messages from cluster lost by server per minute	All	GA	Minor	Cluster
82	B082_ClusterHealth	Cluster Health	All	GA	Critical	Cluster
281	B281_XMLCacheDiskSize	Total number of cached entries on disk which contain external references in an XML parser	9.x	R	N/A	XML Cache

Table 2   Metric Summary

No	Metric Name	Description	Avail. WLS Version	Type	Severity	Area
282	B282_XMLCacheMemory Size	Total number of cached entries in memory which contain external references in an XML parser	All	R	N/A	XML Cache
283	B283_DeferredRequests Cnt	Number of deferred requests	All	GA	Warning	XML Cache
284	B284_ReqWaitTimeForThread	Request wait time for a thread	All	GA	Warning	XML Cache
85	B085_InvLoginAttCnt	# of invalid login attempts	All	GA	Minor	Security
285	B285_PendingReqCount	Number of pending requests	All	GA	Warning	XML Cache
286	B286_PendingReqPct	Percentage of pending requests	All	GA	Minor	XML Cache
287	B287_ReqMaxWaitTime	Maximum wait time for a thread request	All	GA	Warning	XML Cache
288	B288_StandbyThreadCount	Number of threads in the standby pool	All	GA	Warning	XML Cache
289	B289_MDBProcMsgRate	Number of processed messages	All	R		Special Reports
92	B092_ExQueThroughput	average # of requests completed by the execute per second	All	GA	Warning	Time Service

Table 2   Metric Summary

No	Metric Name	Description	Avail. WLS Version	Type	Severity	Area
812	B812_DomainInfo	WebLogic domain configuration, cluster information, and physical machines	10.x	R		Special Reports
813	B813_ApplicationInfo	Applications running on a WebLogic Server	10.x	R		Special Reports
815	B815_TranInfo	Status of WebLogic Server(s)	10.x	R		Special Reports
819	B819_JVMHeapFreeMem	JVM Heap Free Memory in kilobytes	10.x	G		JVM
820	B820_SrvrRestReqrd	Server Restart Required	10.x	AG		Server
821	B821_Suspnded	RequestManager suspended	10.x	AG		ThreadPool

Table 2   Metric Summary

No	Metric Name	Description	Avail. WLS Version	Type	Severity	Area
822	B822_DstroydTlCnt	Total number of times a bean instance from the pool was destroyed due to a non-application Exception being thrown from it	10.x	AG		EJBPool
823	B823_EJBMssdCntRt Sum	Number of times a failed attempt was made to get an instance from the free pool	10.x	AGR		EJBPool
824	B824_EJBMssdCntRt	Number of times a failed attempt was made to get an instance from the free pool per minute	10.x	A		EJBPool

Metric Specification Description

WebLogic SPI metrics can be identified as BXXX, where XXX represents the number assigned to the metric. The letter 'B' that preceded the metric number designates the metric as a WebLogic SPI metric.

- WebLogic SPI metric numbers range from 0000 to 0999.

- The 0700 to 0799 range is reserved for User Defined Metrics.

The name of the metric monitor template associated with the metric begins with "WLSSPI" followed by an underscore and the metric number. Zeroes are used to total a four-digit number; for example, metric number B001 = monitor template WLSSPI_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 B005_JVMMemUtilPct.

Table 3   Metric Attribute Definitions

Monitor Policy Name	Begins always with 'WLSSPI,' 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: • Alarming (using monitor template settings), • Reporting (within a report of the separately purchased HP Reporter) • Graphing (within a graph of the separately purchased HP Performance Manager).
Description	What the metric represents.
Avail. WebLogic Server Version	The WebLogic Server version (9.x, 10.x) for which the metric is available.
Severity: Condition with Threshold	The severity of the exceeded threshold condition. (Critical, Major, Minor, Warning, Normal). If multiple conditions—for example, graduated thresholds—are defined within the metric, severity levels are identified according to the specific condition.
Collection Interval	How often the metric is collected and analyzed (5 min, 15 min, 1 hour, 1 time daily).
HPOM Min/ Max Threshold	Because this setting is the same for all WebLogic Server metrics (all have maximum thresholds), it is omitted.
Default HPOM Threshold	Shows the default HPOM threshold for metrics with parallel monitor templates. 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.
HPOM Threshold Type	Because this setting is the same for all WebLogic Server metrics (without reset), it is omitted.

Table 3   Metric Attribute Definitions

Message Group	The HPOM message group to which the metric belongs. (WLSSPI = conditions occurring in the WebLogic SPI and WebLogic = conditions occurring in the WebLogic Server).
Message Text	The message displayed for each condition.
Instruction Text	Problem-solving information (Probable causes, Potential impact, Suggested actions, and Reports).
Report Type	When a report or graph is available, the method in which it is generated. (Application Bank, Automatic, Operator-initiated, N/A). • Application Bank - Reports can be generated from the Application Bank in HPOM. • Automatic - A report is generated automatically when an event is detected. • Operator-initiated - A report or graph manually generated by the operator. • N/A - No report nor graph are planned. All Automatic or 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 ONLY available in the Application Bank.
Area	The logical area to which the metric belongs (Availability, JVM, Performance, EJB, Servlets, Web Applications, JMS, JDBC, Transactions, Connector, Cluster, XML Cache, Security, Time Service, Special Reports).

Metric Details

In this section WebLogic SPI metrics are explained in detail.

Metric B001_ServerStatus

Monitor Policy Name	WLSSPI_0001
Metric Name	B001_ServerStatus
Metric Type	Alarming
Description	Status of a server, monitors whether running or not
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition with threshold	Critical: WLSSPI-0001.1, threshold 5 Warning: WLSSPI-0001.2, threshold 1.5
Collection Interval	5m
Message Group	WebLogic
Message Text	WLSSPI-0001.1: Server status is unknown (down) [Policy: <$NAME>] WLSSPI-0001.2: Server status: Suspended [Policy: <$NAME>]
Instruction Text	**Probable cause**: For each server, this metric reports the status (running, shutdown in progress, shutdown pending, suspended, or unknown). If the server is not in a running state, the following events may have occurred: 1 The WebLogic Administrator has selected "Shutdown this server" from the Administration console. 2 The WebLogic Administrator has selected "Suspend this server" from the Administration console. 3 The server may have gone down for other reasons. **Potential Impact**: If the server is Shutdown or in the process of shutting down, the server is no longer be available. If the server is Suspended, it only accept requests from the Administration Server. Suspending the WebLogic Server only suspends server responses to HTTP requests. Java applications and RMI invocations are not suspended. **Suggested action**: If the designated server is not running, the WebLogic Administrator should start the server using the appropriate script. It is important to note whether this is the Administration Server or a Managed Server, since the startup script will be different for each type. If the server has been suspended, it may have been placed in this state for a reason. A typical use of this feature would be in a situation where a WebLogic Server is running as a 'hot' backup for another server. When it is OK to do so, execute the 'Resume this server' command from the Administration console.
Report Type	N/A
Area	Availability

Metric B002_ServerStatusRep

Monitor Policy Name	N/A—Used to generate a report
Metric Name	B002_ServerStatusRep
Metric Type	Reporting
Description	Status of server—reporting
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	N/A
Collection Interval	5m
Message Text	N/A
Instruction Text	N/A
Report Type	Application Bank Report (ASCII report)
Area	Availability

Metric B005_JVMMemUtilPct

Monitor Policy Name	WLSSPI_0005
Metric Name	B005_JVMMemUtilPct
Metric Type	Alarming, Graphing
Description	Percentage of heap space used in the JVM
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Critical: WLSSPI-0005.1, threshold 98 Major: WLSSPI-0005.2, threshold 95
Collection Interval	5m
Message Group	WebLogic
Message Text	WLSSPI-0005.1: % of heap space used (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>] WLSSPI-0005.2: % of heap space used (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>]

Instruction Text	**Probable cause**: The JVM is running out of available heap space. The JVM heap size may be set too low for the client load.
	Potential impact: The JVM heap size determines how often and how long the VM spends collecting garbage (de-allocating unused Java objects). The Java heap is where the objects of a Java program live. When an object can no longer be reached from any pointer in the running program, the object is garbage.
	Garbage collection affects performance because JVM work cannot proceed during full garbage collection. An acceptable rate for garbage collection is application-specific and should be adjusted after analyzing the actual time and frequency of garbage collections.
	The goal of tuning your heap size is to minimize the time that you spend doing garbage collection while maximizing the number of clients that you can handle at a given time.
	If you set a large heap size, full garbage collection is slower, but it occurs less frequently. For a smaller heap size, full garbage collection is faster, but occurs more frequently.
	Suggested action: For additional information on tuning your heap size, see the *Performance and Tuning* documentation for your WebLogic Server version available through **http:// e-docs.bea.com/**.
	You can set the heap size using the options −Xms and −Xmx on the Java command line in the script used to start the server.
	Use the −Xms option to set the minimum size of the heap. Set this value to a multiple of 1024 that is greater than 1MB.
	Use the −Xmx option to set the maximum Java heap size. Set this value to a multiple of 1024 that is greater than 1MB.
	As a general rule, set minimum heap size equal to the maximum heap size. If you are using 1.3 Java HotSpot JVM, also set generation sizes. Make sure that the heap size is not larger than the available free RAM on your system. Use as large a heap size as possible without causing your system to swap pages to disk. The amount of free RAM on your system depends on your hardware configuration and the memory requirements of running processes on your machine. See your system administrator for help in determining the amount of free RAM on your system.
	Typically, you should use 80% of the available RAM (not taken by the operating system or other processes) for your JVM. If you find that you have a large amount of RAM remaining, run more WebLogic Servers on your machine.
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Report Type	Application Bank
Area	JVM

Metric B010_ExQueThruRate

Monitor Policy Name	N/A—Used to generate a report and graph
Metric Name	B010_ExQueThruRate
Metric Type	Reporting, Graphing
Description	Number of requests serviced by an execute queue per second. For WebLogic Server version 9.x and 10.x, there is only one execute queue
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	N/A
Collection Interval	15m
Message Group	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	N/A
Area	Performance

Metric B011_ExQThrdUtilPct

Monitor Policy Name	WLSSPI_0011
Metric Name	B011_ExQThrdUtilPct
Metric Type	Alarming, Reporting, Graphing
Description	Percentage of threads in use for a server's execute queue. For WebLogic Server version 9.x and 10.x, there is only one execute queue
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Critical: WLSSPI-0011.1, threshold 90 Major: WLSSPI-0011.2, threshold 85 Minor: WLSSPI-0011.3, threshold 80
Collection Interval	15m
Message Group	WebLogic
Message Text	WLSSPI-0011.1: % of execute queue threads used (<$VALUE>%) too high (>=<$THRESHOLD>%)[Policy: <$NAME>] WLSSPI-0011.2: % of execute queue threads used (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>] WLSSPI-0011.3: % of execute queue threads used (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>]

Instruction Text	**Probable cause**: The utilization of the WebLogic server execute threads has exceeded a threshold value. The number of incoming client requests has resulted in all the execute threads being allocated.
	Potential impact: At 100% utilization, the WebLogic server will not have any threads available to service incoming requests.
	Suggested action: For additional information on tuning the execute thread pool, see the 'Performance and Tuning' documentation for your WebLogic Server version available through **http://e-docs.bea.com/**. Systems administrators can increase the total number of execute threads via the administrator's console. However, it should be noted that adding more threads does not necessarily imply that you can process more work. Even if you add more threads, you are still limited by the power of your processor. You can degrade performance by increasing this value unnecessarily. Because threads are resources that consume memory, a very high execute thread count causes more memory to be used and increases context switching. This degrades your performance. The value of the Thread Count depends very much on the type of work the application does. For example, if your client application is thin and does a lot of its work through remote invocation, the time your client application spends connected will be greater than for a client application that does a lot of client-side processing. So, if you do not need to use the additional threads for your work then you should not change the value of this attribute. The thread will not be held for the client application.
	If your application makes database calls that take a long time to return, you need more execute threads than an application that makes calls that are short and turn over very rapidly. For the latter, you can use a small number of execute threads and improve performance.
	The following scenarios can be used as a guideline for setting the ThreadCount:
	Thread Count < number of CPUs: Increase the thread count
	Thread Count = number of CPUs: Increase the thread count
	Thread Count > number of CPUs by a moderate number of threads: Practically ideal, although some tuning may be necessary
	Thread Count > number of CPUs by a significant number: Reduce the number of threads.
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Report Type	Application Bank
Area	Performance

Metric B012_ExQueWaitCnt

Monitor Policy Name	WLSSPI_0012
Metric Name	B012_ExQueWaitCnt
Metric Type	Alarming, Graphing
Description	The metric monitors an execute queue and its associated thread pool for each server. This metric particularly monitors the number of client requests waiting to be serviced.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Minor: WLSSPI-0012.1, threshold 10
Collection Interval	15m
Message Text	WLSSPI-0012.1: # of requests waiting to be serviced (<$VALUE>) too high (>=<$THRESHOLD>) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The number of client requests waiting to be serviced has exceeded a threshold value.
	The rate of incoming requests has exceeded the number of threads available to perform the work.
	Potential impact: Degradation in performance from a client perspective.
	Suggested action:
	Although client requests are waiting for an execute thread to be allocated, it is important to note that adding more threads does not necessarily imply that you can process more work. Even if you add more threads, you are still limited by the power of your processor. You can degrade performance by increasing this value unnecessarily. Because threads are resources that consume memory, a very high execute thread count causes more memory to be used and increases context switching. This degrades your performance.
	If this condition persists, you may need to upgrade your processor power. Another solution is to simply add resources. If your WebLogic server is configured in a cluster, then to increase the load handling capabilities you can add another WebLogic server to the cluster. Given a well-designed application, adding additional servers should provide linear scalability.
	For information on tuning the execute thread pool, see the *Performance and Tuning* documentation for your WebLogic Server version available through **http://e-docs.bea.com/**.
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Area	Performance

Metric B013_SocketTrafficRt

Monitor Policy Name	N/A—Used to generate a graph
Metric Name	B013_SocketTrafficRt
Metric Type	Graphing
Description	Number of socket connections opened per second.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	N/A
Collection Interval	15m
Default HPOM Threshold	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	N/A
Area	Performance

Metric B014_ActiveSocketCnt

Monitor Policy Name	WLSSPI_0014
Metric Name	B014_ActiveSocketCnt
Metric Type	Alarming, Graphing
Description	Number of socket connections currently open.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Minor: WLSSPI-0014.1, threshold 5
Collection Interval	15m
Message Text	WLSSPI-0014.1: # of socket connections currently open (<$VALUE>) too high (>=<$THRESHOLD>) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The number of open sockets has exceeded a threshold value. The current number of open sockets is greater than the expected number of open sockets for this WebLogic server.
	Potential impact: If the number of open sockets is greater than the number of socket reader threads allocated, incoming requests may be required to wait until a socket reader thread is free.
	Suggested action: Consider increasing the number of socket reader threads from the Administration Server console, preferably equal to the potential maximum number of opened sockets. Allocating execute threads to act as socket reader threads increases the speed and the ability of the server to accept client requests. However, it is essential to balance the number of execute threads that are devoted to reading messages from a socket and those threads that perform the actual execution of tasks in the server.
	For information on tuning the execute thread pool, see the *Performance and Tuning* documentation for your WebLogic Server version available through **http://e-docs.bea.com/**.
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Report Type	Operator action for Serverstat graph.
Area	Performance

Metric B015_SrvrRestartsPc

Monitor Policy Name	WLSSPI_0015
Metric Name	B015_SrvrRestartsPct
Metric Type	Alarming, Graphing (logged only; no graph generated)
Description	Percentage of permissible restarts.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Critical: WLSSPI-0015.1, threshold 90% Warning: WLSSPI-0015.2, threshold 70% Major: WLSSPI-0015.3, threshold 50%
Collection Interval	15m
Message Group	WebLogic
Message Text	WLSSPI-0015.1: % of permissible restarts (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>] WLSSPI-0015.2: % of permissible restarts (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>] WLSSPI-0015.3: % of permissible restarts (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The server restart rate exceeded the a threshold value. The server restart rates is percentage of the maximum restarts permitted in the time interval. The maximum and the interval are both configured in WebLogic Server. Simply, this in an indication that the server has been restarted too many times. Check the underlying cause of the restarts, and (or) raise the configured maximum or interval in WebLogic Server. **Potential impact**:If this is a clustered server, it might affect the health of the cluster. **Suggested action**: Analyze the root cause of restarts.
Report Type	Automatic Action: ASCII report.
Area	Performance

Metric B016_GloThrePoolOverload

Monitor Policy Name	WLSSPI_0016
Metric Name	B016_GloThrePoolOverload
Metric Type	Alarming
Description	Global Thread Pool Overload Condition
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Critical: WLSSPI-0016.1, threshold 1.0
Collection Interval	15m
Message Group	WebLogic
Message Text	WLSSPI-0016.1: Global thread pool overload condition has occurred. Further incoming requests will get rejected. See the annotated reports for details. [Policy: <$NAME>]
Instruction Text	**Probable cause:** Global thread pool overload condition has occurred. The total number of requests that can be present in the server (enqueued and those under execution) is exceeded. **Potential impact:** Further incoming requests will get rejected. **Suggested action:** For information on tuning the execute thread pool, see the 'Performance and Tuning' documentation for your WebLogic Server version available through **http://e-docs.bea.com/**. **Disclaimer**: Clicking on a URL in the above text may take the user to a non-HP site. HP does not control the content of any non-HP site.
Report Type	Automatic Action
Area	Performance

Metric B017_WorkloadMgrOverload

Monitor Policy Name	WLSSPI_0017
Metric Name	B017_WorkloadMgrOverload
Metric Type	Alarming
Description	Workload Manager Overload Condition
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Critical: WLSSPI-0017.1, threshold 80%
Collection Interval	15m
Message Group	WebLogic
Message Text	WLSSPI-0017.1: Workload manager <$OPTION(workManager)> overload condition has occurred for the application <$OPTION(appName)>. Further incoming requests will get rejected. See the annotated reports for details. [Policy: <$NAME>]
Instruction Text	**Probable cause:** Workload Manager overload condition has occurred. The number of requests that are currently executing for given work manager is very close to the configured value of maximum number of concurrent threads that can execute requests. **Potential impact:** Further incoming requests for the particular application will get rejected. **Suggested action:** For information on tuning the execute thread pool, see the 'Performance and Tuning' documentation for your WebLogic Server version available through **http://e-docs.bea.com/**. **Disclaimer**: Clicking on a URL in the above text may take the user to a non-HP site. HP does not control the content of any non-HP site.
Report Type	Automatic Action
Area	Performance

Metric B025_EJBFreePoolWtRt

Monitor Policy Name	WLSSPI_025
Metric Name	B025_EJBFreePoolWtRt
Metric Type	Alarming, Reporting, Graphing
Description	Number of times no EJB beans were available from the free pool per minute.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Warning: WLSSPI-0025.1, threshold 10
Collection Interval	15m
Message Group	WebLogic
Message Text	WLSSPI-0025.1: # of times per minute no EJBs were available from the free pool (<$VALUE>/min) too high (>=<$THRESHOLD>/min) [Policy: <$NAME>]

Instruction Text	**Probable cause**: The number of times per minute no EJBs were available from the free pool has exceeded the threshold value. The max-beans-in-free-pool element may have been set too low, or all instances of an EJB class may be active.
	Potential impact: New clients requesting an EJB class will be blocked until an active EJB completes a method call.
	Suggested action: When EJBs are created, the session bean instance is created and given an identity. When the client removes a bean, the bean instance is placed in the free pool. When you create a subsequent bean, you can avoid object allocation by reusing the previous instance that is in the free pool. The max-beans-in-free-pool element can improve performance if EJBs are frequently created and removed.
	The container creates new instances of message beans as needed for concurrent message processing. The max-beans-in-pool element puts an absolute limit on how many of these instances will be created. The container may override this setting according to the runtime resources that are available.
	For the best performance for stateless session and message beans, use the default setting max-beans-in-free-pool element. (The default is no limit.) This way, you can run as many beans in parallel, using as many threads as possible.
	The only reason to change the setting would be to limit the number of beans running in parallel or to limit access to an underlying resource. For example, if you use stateless session EJBs to implement a legacy connection pool, you do not want to allocate more bean instance than the number of connections that can be supported by your legacy system.
	For information on tuning EJB parameters, see the *Performance and Tuning* documentation for your WebLogic Server version available through **http://e-docs.bea.com/**.
	Disclaimer: Clicking on a URL in the above text may take the user to a non-HP site. HP does not control the content of any non-HP site.
Report Type	Operator-initiated graph
Area	EJB

Metric B225_EJBFreePoolWaitRate

Monitor Policy Name	WLSSPI_0225
Metric Name	B225_EJBFreePoolWaitRate
Metric Type	Alarming
Description	Number of times no EJB beans were available from the free pool (drill down) per minute.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Warning: WLSSPI-0225.1, threshold 10
Collection Interval	15m
Default HPOM Threshold	10
Message Group	WebLogic
Message Text	WLSSPI-0225.1: # of times per minute no EJBs were available from the free pool (<$VALUE>/min) for application (<$OPTION(applicationname)>) too high (>=<$THRESHOLD>/min) [Policy: <$NAME>]

Instruction Text	**Probable cause**: The number of times per minute no EJBs were available from the free pool has exceeded the threshold value. The max-beans-in-free-pool element may have been set too low, or all instances of an EJB class may be active.
	Potential impact: New clients requesting an EJB class will be blocked until an active EJB completes a method call.
	Suggested action: When EJBs are created, the session bean instance is created and given an identity. When the client removes a bean, the bean instance is placed in the free pool. When you create a subsequent bean, you can avoid object allocation by reusing the previous instance that is in the free pool. The max-beans-in-free-pool element can improve performance if EJBs are frequently created and removed.
	The container creates new instances of message beans as needed for concurrent message processing. The max-beans-in-pool element puts an absolute limit on how many of these instances will be created. The container may override this setting according to the runtime resources that are available.
	For the best performance for stateless session and message beans, use the default setting max-beans-in-free-pool element. (The default is no limit.) This way, you can run as many beans in parallel, using as many threads as possible.
	The only reason to change the setting would be to limit the number of beans running in parallel or to limit access to an underlying resource. For example, if you use stateless session EJBs to implement a legacy connection pool, you do not want to allocate more bean instance than the number of connections that can be supported by your legacy system.
	For information on tuning EJB parameters, see the *Performance and Tuning* documentation for your WebLogic Server version available through **http://e-docs.bea.com/**.
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Report Type	N/A
Area	EJB

Metric B026_EJBTimeoutRt

Monitor Policy Name	WLSSPI_0026
Metric Name	B026_EJBTimeoutRt
Metric Type	Alarming, Reporting, Graphing
Description	Number of times a client timed out waiting for an EJB bean per minute.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Warning: WLSSPI-0026.1, threshold 10
Collection Interval	15m
Default HPOM Threshold	10
Message Group	WebLogic
Message Text	WLSSPI-0226.1: # of times per minute a client timed out waiting for an EJB (<$VALUE>) too high (>=<$THRESHOLD>) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The number of times per minute a client timed out waiting for an EJB has exceeded the threshold value. If all instances of an EJB class are active and max-beans-in-free-pool has been reached, new clients requesting the EJB class will be blocked until an active EJB completes a method call.
	Potential impact: If the transaction times out (or, for non-transactional calls, if five minutes elapse), WebLogic Server throws a RemoteException.
	Suggested action: Verify that the max-beans-in-free-pool element has not been set too low. Also, while WebLogic Server will always try to allocate a new bean instance if one is not available, in reality you are limited by the number of executable threads. In most cases, each thread will need, at most, a single bean instance.
	For information on tuning EJB parameters, see the *Performance and Tuning* documentation for your WebLogic Server version available through **http://e-docs.bea.com/**.
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Report Type	Operator-initiated graph
Area	EJB

Metric B226_EJBTimeoutRate

Monitor Policy Name	WLSSPI_0226
Metric Name	B226_EJBTimeoutRate
Metric Type	Alarming
Description	Number of times a client timed out waiting for an EJB bean (drill down) per minute.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Warning: WLSSPI-0226.1, threshold 10
Collection Interval	15m
Message Group	WebLogic
Message Text	WLSSPI-0226.1: # of times per minute a client timed out for application (<$OPTION(applicationname)>) waiting for an EJB (<$VALUE>) too high (>=<$THRESHOLD>) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The number of times per minute a client timed out waiting for an EJB has exceeded the threshold value. If all instances of an EJB class are active and max-beans-in-free-pool has been reached, new clients requesting the EJB class will be blocked until an active EJB completes a method call.
	Potential impact: If the transaction times out (or, for non-transactional calls, if five minutes elapse), WebLogic Server throws a RemoteException.
	Suggested action: Verify that the max-beans-in-free-pool element has not been set too low. Also, while WebLogic Server will always try to allocate a new bean instance if one is not available, in reality you are limited by the number of executable threads. In most cases, each thread will need, at most, a single bean instance.
	For information on tuning EJB parameters, see the *Performance and Tuning* documentation for your WebLogic Server version available through **http://e-docs.bea.com/**.
	Disclaimer: Clicking on a URL in the above text may take the user to a non-HP site. HP does not control the content of any non-HP site.
Report Type	Automatic Action: ASCII report
Area	EJB

Metric B035_EJBTranThruRt

Monitor Policy Name	WLSSPI_0035
Metric Name	B035_EJBTranThruRt
Metric Type	Alarming, Reporting, Graphing
Description	Number of EJB transactions per second.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Warning: WLSSPI-0035.1, threshold, 10000
Collection Interval	15m
Message Group	WebLogic
Message Text	WLSSPI-0035.1: # of EJB transactions per second (<$VALUE>/sec) too high (>=<$THRESHOLD>/sec) [Policy: <$NAME>]
Instruction Text	**Probable cause**: • Sufficient Entity Beans are not present in pooled state. • Entity Bean pool size is set to small value. **Potential impact**: • JVM Heap space might reduce rapidly. • Frequent JVM garbage collection calls. **Suggested action**: Verify Entity Bean pool size set.
Report Type	Application Bank: ASCII report
Area	EJB

Metric B036_EJBTranRbRt

Monitor Policy Name	WLSSPI_0036
Metric Name	B036_EJBTranRbRt
Metric Type	Alarming, Reporting, Graphing
Description	Number of EJB transactions rolled back per second.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Warning: WLSSPI-0036.1,threshold 1
Collection Interval	15m
Message Group	WebLogic
Message Text	WLSSPI-0036.1: # of EJB transactions rolled back per second (<$VALUE>/sec) too high (>=<$THRESHOLD>/sec [Policy: <$NAME>]
Instruction Text	**Probable cause**: The number of EJB transactions rolled back per second has exceeded the threshold value. Application design or resource issues. See metrics 72-75 for additional information for possible cause of the rollbacks.
	Potential impact: Fewer user requests are being successfully completed.
	Suggested action: The WebLogic administrator should check the necessary database systems and ensure they are functioning correctly. In addition, the administrator can monitor transactions from the Administration Console.
	This includes:
	1 Transactions by name, including rollback and time active information
	2 Transactions by resource, including statistics on total, committed, and rolled back transactions.
	3 All active transactions, including information on status, servers, resources, properties, and the transaction identifier.
Report Type	Application Bank: ASCII report
Area	EJB

Metric B238_EJBCacheHitPct

Monitor Policy Name	WLSSPI_0238
Metric Name	B238_EJBCacheHitPct
Metric Type	Alarming, Reporting
Description	Percentage of EJBs in the cache in use.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Warning: WLSSPI-0238.1, threshold 90
Collection Interval	15m
Message Group	WebLogic
Message Text	WLSSPI-0238.1: % of EJBs in the cache in use (<$VALUE>%) for application (<$OPTION(applicationname)>) too high (>=<$THRESHOLD>%) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The utilization of the EJB cache has exceeded a threshold value. The cache size may be set too low. **Potential impact**: When the maximum cache size is reached, WebLogic Server passivates (transfer from memory to secondary storage) some EJBs that have not been recently used by a client. This could result in performance degradation. **Suggested action**: Set the max-beans-in-cache attribute in the weblogic- ejb-jar.xml file to a higher value. Tuning this value too high could consume memory unnecessarily. For information on tuning EJB parameters, see the *Performance and Tuning* documentation for your WebLogic Server version available through **http://e-docs.bea.com/**. **Disclaimer**: Clicking on a URL in the above text may take the user to a non-HP site. HP does not control the content of any non-HP site.
Report Type	Automatic Action: ASCII report
Area	EJB

Metric B240_ServletAveExecTime

Monitor Policy Name	WLSSPI_0240
Metric Name	B240_ServeletAveExecTime
Metric Type	Alarming, Reporting
Description	Average execution time for a servlet in milliseconds.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Warning: WLSSPI-0240.1, threshold 1000
Collection Interval	1h
Message Group	WebLogic
Message Text	WLSSPI-0240.1: Ave. execution time for a servlet (<$VALUE>ms) belongs to application <$OPTION(applicationname)> too high (>=<$THRESHOLD>ms) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The average execution time for a servlet has exceeded the threshold value. Application design issues.
	Potential impact: Slow response time in returning an HTML or XML response to the HTTP request from a client application.
	Suggested action: The cause of high execution time for the servlet could be a resource contention problem, or it could be due to the design of the servlet. You may also choose to re-evaluate the threshold setting for this metric if values consistently exceed the threshold value.
	If JSPs are used extensively in the Web-based application, there could be a performance impact due to having to compile the corresponding .jsp files into Java servlet code, and then compiling the Java code to a Java class file. In this situation, performance can be significantly improved by setting the server's java compiler to sj or jikes instead of javac.
Report Type	Application Bank: ASCII report
Area	Servlets

Metric B241_ServletTimeCnt

Monitor Policy Name	N/A—Used to generate a report
Metric Name	B241_ServletTimeCnt
Metric Type	Reporting
Description	Time spent in a servlet.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	N/A
Collection Interval	1h
Message Group	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	N/A
Area	Servlets

Metric B242_ServletReqRate

Monitor Policy Name	WLSSPI_0242
Metric Name	B242_ServletReqRate
Metric Type	Alarming, Reporting
Description	Number of requests for a servlet per second.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Warning: WLSSPI-0242.1, threshold 10000
Collection Interval	1h
Message Group	WebLogic
Message Text	WLSSPI-0242.1: # of requests for application (<$OPTION(applicationname)>) for a servlet (<$VALUE>/sec) too high (>=<$THRESHOLD>/sec) [Policy: <$NAME>]
Instruction Text	**Probable cause**: Sudden increase in client transactions. **Potential impact**: Average response time of servlet might increase. **Suggested action**: In a clustered environment, keep checking the performance of load balancer.
Report Type	Application Bank: ASCII report
Area	Servlets

Metric B245_WebAppSessionCnt

Monitor Policy Name	WLSSPI_0245
Metric Name	B245_WebAppSessionCnt
Metric Type	Alarming, Reporting
Description	Number of open sessions for a Web application.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Warning: WLSSPI-0245.1, threshold 100
Collection Interval	5m
Message Group	WebLogic
Message Text	WLSSPI-0245.1: # of open sessions for a web application (<$VALUE>) too high (>=<$THRESHOLD>) [Policy: <$NAME>]
Instruction Text	**Probable cause**: Sudden increase in client transactions. **Potential impact**: • JVM Heap space might reduce rapidly. • Frequent JVM garbage collection calls. **Suggested action**: Verify the number of client connections created.
Report Type	Application Bank: ASCII report
Area	Web Applications

Metric B246_WebAppHitRt

Monitor Policy Name	N/A—Used to generate a report
Metric Name	B246_WebAppHitRt
Metric Type	Reporting
Description	Number of open sessions for a Web application per second.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	N/A
Collection Interval	5m
Message Group	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	Application Bank: ASCII report
Area	Web Applications

Metric B251_JMSUtilByMessagePct

Monitor Policy Name	WLSSPI_0251
Metric Name	B251_JMSUtilByMessagePct
Metric Type	Alarming, Reporting
Description	Percentage of the JMS server filled, based on the number of messages.
	Messages Maximum (the maximum message quota that can be stored in a JMS server) must be set to a number greater than zero in order for this metric to log reporter data and monitor thresholds. This value is configured from the WebLogic console.
	If the Messages Maximum value is set to the default value (-1), data is not logged and thresholds are not monitored.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Critical: WLSSPI-0251.1, threshold 98% Major: WLSSPI-0251.2, threshold 95%
Collection Interval	15m
Message Group	WebLogic

Message Text	WLSSPI-0251.1: % of JMS queue filled by message count (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>] WLSSPI-0251.2: % of JMS queue filled by message count (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The JMS Server queue utilization is greater than the threshold value. The size of the queue may be set too low. **Potential impact**: Once the queue reaches one hundred percent capacity, users will not be able to deliver messages to this queue. **Suggested action**: If possible, the administrator may want to increase the size of the queue via the Administration Server console. The administrator can also inspect the individual destinations within this JMS Server via the console to determine which destination queues are having problems.
Report Type	Application Bank: ASCII report
Area	Java Message Service (JMS)

Metric B252_JMSUtilByBytePct

Monitor Policy Name	WLSSPI_0252
Metric Name	B252_JMSUtilByBytePct
Metric Type	Alarming, Reporting
Description	Percentage of the JMS server filled, based on total bytes. Bytes Maximum (the maximum byte quota that can be stored in a JMS server) must be set to a number greater than zero in order for this metric to log reporter data and monitor thresholds. This value is configured from the WebLogic console. If the Bytes Maximum value is set to the default value (-1), data is not logged and thresholds are not monitored.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Critical: WLSSPI-0252.1, threshold 98% Major: WLSSPI-0252.2, threshold 95%
Collection Interval	15m
Message Group	WebLogic
Message Text	WLSSPI-0252.1: % of JMS queue filled by byte count (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The JMS Server queue utilization is greater than the threshold value. The size of the queue may be set too low. **Potential impact**: Once the queue reaches one hundred percent capacity, users will not be able to deliver messages to this queue. **Suggested action**: If possible, the administrator may want to increase the size of the queue via the Administration Server console. The administrator can also inspect the individual destinations within this JMS Server via the console to determine which destination queues are having problems.
Report Type	ASCII Report
Area	Java Message Service (JMS)

Metric B253_JMSThreshByMessagePct

Monitor Policy Name	WLSSPI_0253
Metric Name	B253_JMSThreshByMessagePct
Metric Type	Alarming, Reporting
Description	Percentage of time the server threshold condition was satisfied, based on the number of messages.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Warning: WLSSPI-0253.1, threshold 10%
Collection Interval	15m
Message Group	WebLogic
Message Text	WLSSPI-0253.1: # of time queue threshold condition was satisfied by message count (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The amount of time this JMS queue has spent in the threshold condition has exceeded the threshold value. The JMS Server message queue threshold condition for the number of messages stored, as configured in the administration console, has been satisfied for a significant amount of time.
	Potential impact: Once the queue reaches one hundred percent capacity, users will not be able to deliver messages to this queue.
	Suggested action: If possible, the administrator may want to increase the size of the queue via the Administration Server console. The administrator can also inspect the individual destinations within this JMS Server via the console to determine which destination queues are having problems.
Report Type	Application Bank: ASCII report
Area	Java Message Service (JMS)

Metric B254_JMSThreshByBytePct

Monitor Policy Name	WLSSPI_0254
Metric Name	B254_JMSThreshByBytePct
Metric Type	Alarming, Reporting
Description	Percentage of time server threshold condition was satisfied, based on total bytes.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Warning: WLSSPI-0254.1, threshold 10%
Collection Interval	15m
Message Group	WebLogic
Message Text	WLSSPI-0254.1: # of time queue threshold condition was satisfied by byte count (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The amount of time this JMS queue has spent in the threshold condition has exceeded the threshold value. The JMS Server message queue threshold condition for the number of bytes stored, as configured in the administration console, has been satisfied for a significant amount of time. **Potential impact**: Once the queue reaches one hundred percent capacity, users will not be able to deliver messages to this queue. **Suggested action**: If possible, the administrator may want to increase the size of the queue via the Administration Server console. The administrator can also inspect the individual destinations within this JMS Server via the console to determine which destination queues are having problems.
Report Type	Application Bank Report (ASCII report)
Area	Java Message Service (JMS)

Metric B255_JMSServerThruMessageRt

Monitor Policy Name	N/A—Used to generate a report
Metric Name	B255_JMSServerThruMessageRt
Metric Type	Reporting
Description	Number of messages passed through the JMS server per second.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	N/A
Collection Interval	15m
Message Group	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	Application Bank: ASCII report
Area	Java Message Service (JMS)

Metric B256_JMSServerThruByteRt

Monitor Policy Name	N/A—Used to generate a report
Metric Name	B256_JMSServerThruByteRt
Metric Type	Reporting
Description	Number of bytes passed through the JMS server per second.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	N/A
Collection Interval	15m
Message Group	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	Application Bank: ASCII report
Area	Java Message Service (JMS)

Metric B260_JDBCConnectionPoolUtil

Monitor Policy Name	WLSSPI_0260
Metric Name	B260_JDBCConnectionPoolUtil
Metric Type	Alarming, Reporting
Description	Percentage utilization of available JDBC connections in connection pool.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Critical: WLSSPI-0260.1, threshold 98% Major: WLSSPI-0260.2, threshold 95%
Collection Interval	5m
Message Group	WebLogic
Message Text	WLSSPI-0260.1: % utilization of available JDBC connections in connection pool (<$VALUE>%) for application (<$OPTION(applicationname)>) too high (>=<$THRESHOLD>%) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The JDBC connection pool utilization has exceeded the threshold value. The number of available JDBC connections is low. **Potential impact**: Performance degradation caused by having to wait for a JDBC connection to a DBMS. **Suggested action**: If the database system can support additional connections, the WebLogic administrator should increase the number of connections available for this connection pool. A good rule of thumb is that the maximum size of the connection pool should be equal to the number of Execute Threads configured in the WebLogic Server. This assumes that each thread uses one transaction to service a request and therefore needs just one connection. If this is not the case, then a slightly larger connection pool may be more efficient. The connection pool minimum size should be equal to the maximum size. This ensures that all database connections are acquired during server start-up and not when the server is under load.
Report Type	Application Bank: ASCII Report
Area	JDBC

Metric B061_JDBCConPlWtCnt

Monitor Policy Name	WLSSPI_0061
Metric Name	B061_JDBCConPlWtCnt
Metric Type	Alarming, Graphing
Description	Number of clients waiting for a connection from connection pools.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Warning: WLSSPI-0061.1, threshold 10
Collection Interval	5m
Message Group	WebLogic
Message Text	WLSSPI-0061.1: # of clients waiting for a connection from connection pools (<$VALUE>) too high (>=<$THRESHOLD>) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The number of clients waiting for a connection has exceeded the threshold value. The size of the connection pool is too small relative to the number of current client sessions that require JDBC Connections.
	Potential impact: Client connection requests will be forced to wait for an available connection from the connection pool.
	Suggested action: Increase the maximum size of the connection pool. A good rule of thumb is that the maximum size of the connection pool should be equal to the number of Execute Threads configured in the WebLogic Server. This assumes that each thread uses one transaction to service a request and therefore needs just one connection. If this is not the case, then a slightly larger connection pool may be more efficient.
	The connection pool minimum size should be equal to the maximum size. This ensures that all database connections are acquired during server start-up and not when the server is under load.
Report Type	Operator-initiated graph
Area	JDBC

Metric B262_JDBCConnectionPoolThruRt

Monitor Policy Name	N/A—Used to generate a report
Metric Name	B262_JDBCConnectionPoolThruRt
Metric Type	Reporting
Description	Number of clients serviced by connection pool per second.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	N/A
Collection Interval	5m
Message Group	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	Application Bank: ASCII report
Area	JDBC

Metric B063_JDBCConnectionPoolLeakedConnectionsRtSum

Monitor Policy Name	N/A—Used to generate a graph
Metric Name	B063_JDBCConnectionPoolLeakedConnectionsRtSum
Metric Type	Graphing
Description	Number of unclosed JDBC connections and JDBC connections that have exceeded their maximum idle times in the connection pool per minute.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	N/A
Collection Interval	5m
Message Group	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	N/A
Area	JDBC

Metric B263_JDBCConnectionPoolLeakedConnectionsRt

Monitor Policy Name	WLSSPI_0263
Metric Name	B263_JDBCConnectionPoolLeakedConnectionsRt
Metric Type	Alarming, Reporting (logged only; no report generated)
Description	Rate of leaked connections for the JDBC connection pool.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Warning: WLSSPI-0263.1, threshold 100
Collection Interval	5m
Message Group	WebLogic
Message Text	WLSSPI-0263.1: Rate of leaked connections for the JDBC connection pool(<$VALUE>) belongs to application (<$OPTION(applicationname)>) too high (>=<$THRESHOLD>) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The rate of new leaked JDBC connections has exceeded the threshold value.JDBC connection leaks represent connections that were checked out of the connection pool but never returned with a close() method. Leaked connections cannot be used to fulfill later connection requests. **Potential Impact**: When a connection is closed, the connection is then available for a future connection request. If the application fails to close the connection, the connection pool can be exhausted of its available connections, and future connection requests can therefore fail. **Suggested action**: Correct the faulty application component. Connection pools provide ready-to-use pools of connections to a database, therefore eliminating the overhead of creating each connection when as needed by the application. When finished with a connection, applications must return the connection to the connection pool. For information on managing JDBC connections, see the *Programming WebLogic JDBC* documentation for your WebLogic Server version available through **http://e-docs.bea.com/**. **Disclaimer**: Clicking on a URL in the above text may take the user to a non-HP site. HP does not control the content of any non-HP site.
Report Type	Automatic Action: ASCII report
Area	JDBC

Metric B264_JDBCConnectionPoolFailures

Monitor Policy Name	WLSSPI_0264
Metric Name	B264_JDBCConnectionPoolFailures
Metric Type	Alarming
Description	JDBC connection pool failures.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Warning: WLSSPI-0264.1, threshold 10
Collection Interval	5m
Message Group	WebLogic
Message Text	WLSSPI-0264.1: JDBC connection pool failures (<$VALUE>) for application (<$OPTION(applicationname)>) too high (>=<$THRESHOLD>) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The number of times a connection pool attempted to refresh a connection to a database and failed exceeds the threshold.This failure may happen because of database unavailability or broken connection to the database.
	Potential impact: Client connection requests to the database may fail.
	Suggested action: For information on managing JDBC connections, see the *Programming WebLogic JDBC* documentation for your WebLogic Server version available through **http://e-docs.bea.com/**.
	Disclaimer: Clicking on a URL in the above text may take the user to a non-HP site. HP does not control the content of any non-HP site.
Report Type	Automatic Action: ASCII report
Area	JDBC

Metric B265_JDBCConnectionPoolAvgConnectionDelayTime

Monitor Policy Name	WLSSPI_0265
Metric Name	B265_JDBCConnectionPoolAvgConnectionDelayTime
Metric Type	Alarming, Reporting (logged only; no report generated)
Description	JDBC connection pool connection delay, in milliseconds.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Warning: WLSSPI-0265.1, threshold 10
Collection Interval	5m
Message Group	WebLogic
Message Text	WLSSPI-0265.1: JDBC connection pool connection delay (<$VALUE>) for application (<$OPTION(applicationname)>) too high (>=<$THRESHOLD>) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The average time it takes to get a physical connection from the database has exceeded the threshold. **Potential impact**: Application response time might increase drastically. **Suggested action**: For information on managing JDBC connections, see the *Programming WebLogic JDBC* documentation for your WebLogic Server version available through **http://e-docs.bea.com/**. **Disclaimer**: Clicking on a URL in the above text may take the user to a non-HP site. HP does not control the content of any non-HP site.
Report Type	Automatic Action: ASCII report
Area	JDBC

Metric B070_TranAveTime

Monitor Policy Name	WLSSPI_0070
Metric Name	B070_TranAveTime
Metric Type	Alarming, Reporting, Graphing
Description	Average commit time for transactions.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Minor: WLSSPI-0070.1, threshold, 100 msec
Collection Interval	5m
Message Group	WebLogic
Message Text	WLSSPI-0070.1: Ave. commit time for transactions (<$VALUE>ms) too high (>=<$THRESHOLD>ms) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The average commit time for a transaction has exceeded the threshold value. This may be an indication of system load. **Potential impact**: Degradation in the transaction throughput rate for the WebLogic Server. **Suggested action**: The administrator can monitor individual transactions from the Administration Console. In addition to displaying statistics, the following information can also be displayed: 1 Transactions by name, including rollback and time active information. 2 Transactions by resource, including statistics on total, committed, and rolled back transactions. 3 All active transactions, including information on status, servers, resources, properties, and the transaction identifier.
Report Type	Application Bank: ASCII report
Area	Transactions

Metric B270_ConnectorConnectionPoolUtil

Monitor Policy Name	WLSSPI_0270
Metric Name	B270_ConnectorConnectionPoolUtil
Metric Type	Alarming, Reporting (logged only; no report generated)
Description	Percentage utilization of available JCA connections in connection pool.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Critical: WLSSPI-0270.1, threshold 98 Major: WLSSPI-0270.2, threshold 95
Collection Interval	5m
Message Group	WebLogic
Message Text	WLSSPI-0270.1: % utilization of available JCA connections in connection pool (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>] WLSSPI-0270.2: % utilization of available JCA connections in connection pool (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>]

Instruction Text	**Probable cause**: The utilization of a J2EE Connector connection pool (that is, the number of connections in the pool that are being used) has exceeded a threshold value. The number of requested connections to a resource is approaching or has reached the maximum allowed.
	Potential impact: As ManagedConnections are created over time, the amount of system resources-such as memory and disk space-that each ManagedConnection consumes increases and may affect the performance of the overall system. If a new ManagedConnection needs to be created during a connection request, WebLogic Server ensures that no more than the maximum number of allowed ManagedConnections are created. If the maximum number is reached, WebLogic Server attempts to recycle a ManagedConnection from the connection pool. However, if there are no connections to recycle, a warning is logged indicating that the attempt to recycle failed and that the connection request can only be granted for the amount of connections up to the allowed maximum amount.
	Suggested action: WebLogic Server allows you to configure a setting for the allowed maximum number of allocated connections.
	For information on managing J2EE connections, see the "Connection Management" section of the *Programming WebLogic J2EE Connectors* documentation for your WebLogic Server version available through **http://e-docs.bea.com/**.
	Disclaimer: Clicking on a URL in the above text may take the user to a non-HP site. HP does not control the content of any non-HP site.
Report Type	Automatic Action: ASCII report
Area	Connector

Metric B071_TranRollbackPct

Monitor Policy Name	WLSSPI_0071
Metric Name	B071_TransRollbackPct
Metric Type	Alarming, Reporting, Graphing
Description	Percentage of transactions rolled back, based on the total.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Minor: WLSSPI-0071.1, threshold, 1
Collection Interval	5m
Message Group	WebLogic
Message Text	WLSSPI-0071.1: % of transactions rolled back (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The percentage of transactions rolled back has exceeded the threshold value. Application design issues or resource issues. **Potential impact**: User requests are not being successfully completed. **Suggested action**: The WebLogic administrator should check the necessary database systems and ensure they are functioning correctly. In addition, the administrator should check the following configurable transaction attributes: Timeout Seconds - the time a transaction may be active before the system forces a rollback. Abandon Timeout Seconds - the maximum time that a transaction coordinator persists in attempting to complete a transaction. Before Completion Iteration Limit - The number of beforeCompletion callbacks that are processed before a system forces a rollback. The administrator can monitor individual transactions from the Administration Console. In addition to displaying statistics, the following information can also be displayed: 1 Transactions by name, including rollback and time active information. 2 Transactions by resource, including statistics on total, committed, and rolled back transactions. 3 All active transactions, including information on status, servers, resources, properties, and the transaction identifier.
Report Type	Application Bank: ASCII report
Area	Transactions

Metric B072_TranResErrRbPct

Monitor Policy Name	WLSSPI_0072
Metric Name	B072_TranResErrRbPct
Metric Type	Alarming, Reporting, Graphing
Description	Percentage of transactions rolled back due to resource error.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Minor: WLSSPI-0072.1, threshold 1
Collection Interval	5m
Message Group	WebLogic
Message Text	WLSSPI-0072.1: % of transactions rolled back due to resource error (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The percent of transactions rolled back due to resource errors has exceeded the threshold value. Transactions are not successfully completing due to resource errors. **Potential impact**: Fewer user requests are being successfully completed. **Suggested action**: The administrator can monitor individual transactions from the Administration Console. In addition to displaying statistics, the following information can also be displayed: 1 Transactions by name, including rollback and time active information. 2 Transactions by resource, including statistics on total, committed, and rolled back transactions. 3 All active transactions, including information on status, servers, resources, properties, and the transaction identifier.
Report Type	Application Bank: ASCII report
Area	Transactions

Metric B073_TranAppErrRbPct

Monitor Policy Name	WLSSPI_0073
Metric Name	B073_TranAppErrRbPct
Metric Type	Alarming, Reporting, Graphing
Description	Percentage of transactions rolled back due to an application error.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Minor: WLSSPI-0073.1, threshold 1
Collection Interval	5m
Message Group	WebLogic
Message Text	WLSSPI-0073.1: % of transactions rolled back due to application error (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The percent of transactions rolled back due to application errors has exceeded the threshold value. Transactions are not successfully completing due to application errors.
	Potential impact: Fewer user requests are being successfully completed.
	Suggested action: The administrator can monitor individual transactions from the Administration Console. In addition to displaying statistics, the following information can also be displayed:
	1 Transactions by name, including rollback and time active information.
	2 Transactions by resource, including statistics on total, committed, and rolled back transactions.
	3 All active transactions, including information on status, servers, resources, properties, and the transaction identifier.
Report Type	Operator-initiated graph; Application Bank: ASCII report
Area	Transactions

Metric B074_TranTimErrRbPct

Monitor Policy Name	WLSSPI_0074
Metric Name	B074_TranTimErrRbPct
Metric Type	Alarming, Reporting, Graphing
Description	Percentage of transactions rolled back due to a timeout error.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Minor: WLSSPI-0074.1, threshold 1
Collection Interval	5m
Message Group	WebLogic
Message Text	WLSSPI-0074.1: % of transactions rolled back due to timeout error (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The percent of transactions rolled back due to timeout errors has exceeded the threshold value. Transactions are not successfully completing due to timeout errors.
	Potential impact: Fewer user requests are being successfully completed.
	Suggested action: The administrator can monitor individual transactions from the Administration Console. In addition to displaying statistics, the following information can also be displayed:
	1 Transactions by name, including rollback and time active information.
	2 Transactions by resource, including statistics on total, committed, and rolled back transactions.
	3 All active transactions, including information on status, servers, resources, properties, and the transaction identifier.
Report Type	Operator-initiated graph; Application Bank: ASCII report
Area	Transactions

Metric B075_TranSysErrRbPct

Monitor Policy Name	WLSSPI_0075
Metric Name	B075_TranSysErrRbPct
Metric Type	Alarming, Reporting, Graphing
Description	Percentage of transactions rolled back due to system error.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Minor: WLSSPI-0075.1, threshold 1
Collection Interval	5m
Message Group	WebLogic
Message Text	WLSSPI-0075.1: % of transactions rolled back due to system error (<$VALUE>%) too high (>=<$THRESHOLD>% [Policy: <$NAME>]
Instruction Text	**Probable cause**: The percent of transactions rolled back due to system errors has exceeded the threshold value. Transactions are not successfully completing due to system errors. **Potential impact**: Fewer user requests are being successfully completed. **Suggested action**: The administrator can monitor individual transactions from the Administration Console. In addition to displaying statistics, the following information can also be displayed: 1 Transactions by name, including rollback and time active information. 2 Transactions by resource, including statistics on total, committed, and rolled back transactions. 3 All active transactions, including information on status, servers, resources, properties, and the transaction identifier.
Report Type	Operator-initiated graph; Application Bank: ASCII report
Area	Transactions

Metric B076_TranThruRate

Monitor Policy Name	N/A—Used to generate a report and graph
Metric Name	B076_TranThruRate
Metric Type	Graphing, Reporting
Description	Number of transactions processed per second.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	N/A
Collection Interval	5m
Message Group	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	N/A
Area	Transactions

Metric B077_TranHeurCnt

Monitor Policy Name	WLSSPI_0077
Metric Name	B077_TranHeurCnt
Metric Type	Alarming, Reporting, Graphing
Description	Percentage of transactions returning a heuristic decision.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Minor: WLSSPI-0075.1, threshold 1
Collection Interval	5m
Message Group	WebLogic
Message Text	WLSSPI-0077.1: % of transactions returning a heuristic decision (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The percentage of transactions returning a heuristic decision has exceeded the threshold value. A heuristic completion (or heuristic decision) occurs when a resource makes a unilateral decision during the completion stage of a distributed transaction to commit or rollback updates. Network failures or transaction timeouts are possible causes for heuristic completion. **Potential impact**: A heuristic decision can leave distributed data in an indeterminate state. **Suggested action**: In the event of a heuristic decision, one of the following heuristic outcome exceptions may be thrown: - HeuristicRollback - one resource participating in a transaction decided to autonomously rollback its work, even though it agreed to prepare itself and wait for a commit decision. If the Transaction Manager decided to commit the transaction, the resource's heuristic rollback decision was incorrect, and might lead to an inconsistent outcome since other branches of the transaction were committed. - HeuristicCommit - one resource participating in a transaction decided to autonomously commit its work, even though it agreed to prepare itself and wait for a commit decision. If the Transaction Manager decided to rollback the transaction, the resource's heuristic commit decision was incorrect, and might lead to an inconsistent outcome since other branches of the transaction were rolled back. - HeuristicMixed - the Transaction Manager is aware that a transaction resulted in a mixed outcome, where some participating resources committed and some rolled back. The underlying cause was most likely heuristic rollback or heuristic commit decisions made by one or more of the participating resources.

Instruction text (cont.)	• HeuristicHazard - the Transaction Manager is aware that a transaction might have resulted in a mixed outcome, where some participating resources committed and some rolled back. But system or resource failures make it impossible to know for sure whether a Heuristic Mixed outcome definitely occurred. The underlying cause was most likely heuristic rollback or heuristic commit decisions made by one or more of the participating resources.
	• When a heuristic completion occurs, a message is written to the server log. See your database vendor documentation for instructions on resolving heuristic completions.
	Some resource managers save context information for heuristic completions. This information can be helpful in resolving resource manager data inconsistencies. If the ForgetHeuristics attribute is selected (set to true) on the JTA panel of the WebLogic Console, this information is removed after an heuristic completion. When using a resource manager that saves context information, you may want to set the ForgetHeuristics attribute to false.
Report Type	Operator-initiated graph; Application Bank: ASCII report
Area	Transactions

Metric B078_ConnectorConnectionPoolLeakedConnRateSum

Monitor Policy Name	N/A—Used to generate a graph
Metric Name	B078_ConnectorConnectionPoolLeakedConnRateSum
Metric Type	Graphing
Description	Number of unclosed connector connections and connector connections that have exceeded their maximum idle times in the connection pool per minute.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	N/A
Collection Interval	5m
Message Group	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	N/A
Area	Connector

Metric B278_ConnectorConnectionPoolLeakedConnRate

Monitor Policy Name	WLSSPI_0278
Metric Name	B278_ConnectorConnectionPoolLeakedConnRate
Metric Type	Alarming, Reporting (logged only; no report generated)
Description	Rate of leaked connections for the JCA connection pool.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Warning: WLSSPI-0278.1, threshold 100
Collection Interval	5m
Message Group	WebLogic
Message Text	WLSSPI-0278.1: Rate of leaked connections for the JCA connection pool (<$VALUE>) too high (>=<$THRESHOLD>) [Policy: <$NAME>]

Instruction Text	**Probable cause**: The rate of new leaked connections has exceeded the threshold value. Connection leaks result from application components not closing a connection after using it.
	Potential impact: When a connection is closed, the connection is then available for a future connection request. If the application fails to close the connection, the connection pool can be exhausted of its available connections, and future connection requests can therefore fail.
	Suggested action: Correct the faulty application component. See the annotation report for information on current connections and indicates which have been idle for a period extending beyond the configured maximum.
	For information on connection leaks, see the *Programming WebLogic J2EE Connectors* documentation for your WebLogic Server version available through **http://e-docs.bea.com/**.
	Disclaimer: Clicking on a URL in the above text may take the user to a non-HP site. HP does not control the content of any non-HP site.
Report Type	Automatic Action: ASCII report
Area	Connector

Metric B079_TranCapacityUtil

Monitor Policy Name	WLSSPI_0079
Metric Name	B079_TranCapacityUtil
Metric Type	Alarming, Graphing, Reporting
Description	Percentage utilization of transaction capacity.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Critical: WLSSPI-0079.1, threshold 98 Major: WLSSPI-0079.2, threshold 95
Collection Interval	5m
Message Group	WebLogic
Message Text	WLSSPI-0079.x: % utilization of transaction capacity (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The number of simultaneous in-progress transactions (as a percent of the maximum number of transactions allowed in the server) has exceeded a threshold value. **Potential Impact**: Sudden spike in transactions roll back rate might be observed. **Suggested Action**: 1 Restrict simultaneous concurrent transactions. 2 Verify ACID properties of simultaneous transactions.
Report Type	Automatic Action: ASCII report
Area	Transactions

Metric B080_ClsOutMesFailRt

Monitor Policy Name	WLSSPI_0080
Metric Name	B080_ClsOutMesFailRt
Metric Type	Alarming, Graphing
Description	Number of multicast messages to cluster that were re-sent per minute.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Minor: WLSSPI-0080.1, threshold 1
Collection Interval	5m
Message Group	WebLogic

Message Text	WLSSPI-0080.1: # of multicast messages to cluster that were resent (<$VALUE>/min) too high (>=<$THRESHOLD>/min) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The number of multicast messages to the cluster that were resent has exceeded the threshold value. This could be caused by the cluster configuration or the network topology.
	Potential impact: Potential loss of multicast packets.
	Suggested action: Because multicast controls critical functions related to detecting failures and maintaining the cluster-wide JNDI tree, it is important that neither the cluster configuration nor the basic network topology interfere with multicast communication. Always consider the following rules when configuring or planning a WebLogic Server cluster.
	For most deployments, limiting clustered servers to a single subnet ensures that multicast messages are reliably transmitted. In special cases, however, you may want to distribute a WebLogic Server cluster across subnets in a Wide Area Network (WAN). This may be desirable to increase redundancy in a clustered deployment, or to distribute clustered instances over a larger geographical area.
	If you choose to distribute a cluster over a WAN (or across multiple subnets), you must plan and configure your network topology to ensure that multicast messages are reliably transmitted to all servers in the cluster. Specifically, your network must meet the following requirements:
	1 The network must fully support IP multicast packet propagation. In other words, all routers and other tunneling technologies must be configured to propagate multicast messages to clustered instances.
	2 The network latency must be sufficiently small as to ensure that most multicast messages reach their final destination in 200 to 300 milliseconds.
	3 The multicast Time-To-Live (TTL) value must be high enough to ensure that routers do not discard multicast packets before they reach their final destination.
	Note: Distributing a WebLogic Server cluster over a WAN may require network facilities in addition to the multicast requirements described above. For example, you may want to configure load balancing hardware to ensure that client requests are directed to servers in the most efficient manner (to avoid unnecessary network hops).
Report Type	Operator-initiated graph
Area	Cluster

Metric B081_ClsInMesFailRt

Monitor Policy Name	WLSSPI_0081
Metric Name	B081_ClsInMesFailRt
Metric Type	Alarming, Graphing
Description	Number of multicast messages from cluster lost by server per minute.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Minor: WLSSPI-0081.1, threshold 1
Collection Interval	5m
Message Group	WebLogic
Message Text	WLSSPI-0081.1: # of multicast messages from cluster lost by server (<$VALUE>/min) too high (>=<$THRESHOLD>/min) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The number of multicast messages from the cluster that were lost by the server has exceeded the threshold value. This could be caused by the cluster configuration or the network topology. **Potential impact**: Potential loss of critical data. **Suggested action**: Because multicast controls critical functions related to detecting failures and maintaining the cluster-wide JNDI tree, it is important that neither the cluster configuration nor the basic network topology interfere with multicast communication. Always consider the following rules when configuring or planning a WebLogic Server cluster. For most deployments, limiting clustered servers to a single subnet ensures that multicast messages are reliably transmitted. In special cases, however, you may want to distribute a WebLogic Server cluster across subnets in a Wide Area Network (WAN). This may be desirable to increase redundancy in a clustered deployment, or to distribute clustered instances over a larger geographical area.

Instruction Text (cont.)	If you choose to distribute a cluster over a WAN (or across multiple subnets), you must plan and configure your network topology to ensure that multicast messages are reliably transmitted to all servers in the cluster. Specifically, your network must meet the following requirements:
	1 The network must fully support IP multicast packet propagation. In other words, all routers and other tunneling technologies must be configured to propagate multicast messages to clustered instances.
	2 The network latency must be sufficiently small as to ensure that most multicast messages reach their final destination in 200 to 300 milliseconds.
	3 The multicast Time-To-Live (TTL) value must be high enough to ensure that routers do not discard multicast packets before they reach their final destination.
	Note: Distributing a WebLogic Server cluster over a WAN may require network facilities in addition to the multicast requirements described above. For example, you may want to configure load balancing hardware to ensure that client requests are directed to servers in the most efficient manner (to avoid unnecessary network hops).
Report Type	Operator-initiated graph
Area	Cluster

Metric B082_ClusterHealth

Monitor Policy Name	WLSSPI_0082
Metric Name	B082_ClusterHealth
Metric Type	Alarming, Graphing
Description	Health of the cluster
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Critical: WLSSPI-0082.1, threshold 4.5
Collection Interval	5m
Message Group	WebLogic
Message Text	WLSSPI-0082.1: Cluster Health is poor.
Instruction Text	**Probable cause**: 1 Load balancing is not proper. 2 Network latency is more. **Potential impact**: 1 If cluster fails, disaster recovery might be impacted. 2 Availability might come down. **Suggested action**: 1 Check load balancer's behavior. 2 Choose sticky routing algorithm.
Report Type	Operator-initiated graph
Area	Cluster

Metric B281_XMLCacheDiskSize

Monitor Policy Name	WLSSPI_0281
Metric Name	B281_XMLCacheDiskSize
Metric Type	Reporting (logged only; no report generated)
Description	Total number of cached entries on disk which contain external references in an XML parser.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	N/A
Collection Interval	5m
Message Group	WebLogic
Message Text	N/A

Instruction Text	N/A
Report Type	Reserved for future use
Area	XML Cache

Metric B282_XMLCacheMemorySize

Monitor Policy Name	WLSSPI_0282
Metric Name	B282_XMLCacheMemorySize
Metric Type	Reporting
Description	Total number of cached entries in memory which contain external references in an XML parser.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	N/A
Collection Interval	5m
Message Group	WebLogic
Message Text	N/A
Instruction Text	N/A
Report Type	Reserved for future use
Area	XML Cache

Metric B283_DeferredRequestsCnt

Monitor Policy Name	WLSSPI_0283
Metric Name	B283_DeferredRequestsCnt
Metric Type	Alarming, Graphing
Description	Number of deferred requests.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Warning: WLSSPI-0283.1, threshold 100
Collection Interval	15m
Message Group	WebLogic
Message Text	WLSSPI-0283.1: Deferred requests count (<$VALUE>) too high (>=<$THRESHOLD>) [Policy: <$NAME>]

Instruction Text	**Probable cause**: This metric is used to monitor the number of requests that were denied a thread for execution because of the max-threads-constraint constraint. Max-threads-constraint is one of the work manager components that you can use to control the performance of your application by referencing the name of the component in the application's deployment descriptor. The max-threads-constraint constraint limits the number of concurrent threads executing requests from the constrained work set. The default is unlimited. Once the constraint is reached the server does not schedule requests of this type until the number of concurrent executions falls below the limit.
	Potential Impact:
	• Application response time might increase with further deferrals.
	• Application might move into a suspended state.
	• Application deadlock situation might arise.
	Suggested Action: If possible, increase the max-threads-constraint for this application.
Report Type	N/A
Area	XML cache

Metric B284_ReqWaitTimeForThread

Monitor Policy Name	WLSSPI_0284
Metric Name	B284_ReqWaitTimeForThread
Metric Type	Alarming, Graphing
Description	Request wait time for a thread.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Warning: WLSSPI-0284.1, threshold 1000
Collection Interval	15m
Message Group	WebLogic
Message Text	WLSSPI-0284.1: Request wait time for a thread (<$VALUE> ms) too high (>=<$THRESHOLD> ms) [Policy: <$NAME>]
Instruction Text	**Probable cause**: This metric is used to monitor the time (in milliseconds) a request had to wait for a thread. Only requests whose execution is needed to satisfy the min_threads_constraint are considered. The min-threads-constraint is one of the work manager components that you can use to control the performance of your application by referencing the name of the component in the application's deployment descriptor. This constraint guarantees a number of threads the server will allocate to affected requests to avoid deadlocks. The default is zero. This type of constraint has an effect primarily when the server instance is close to a deadlock condition. In that case, the constraint will cause WebLogic Server to schedule a request from a even if requests in the service class have gotten more than its fair share recently. **Potential Impact**: • Applications might respond slowly. • Applications might block the threads to be available. • Application deadlock situation might arise. **Suggested Action**: Increase the size of the thread pool or mark them growable.
Report Type	N/A
Area	XML cache

Metric B085_InvLoginAttCnt

Monitor Policy Name	WLSSPI_0085
Metric Name	B085_InvLoginAttCnt
Metric Type	Alarming, Graphing
Description	Number of invalid login attempts.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Minor: WLSSPI-0085.1, threshold 2
Collection Interval	5m
Message Group	WebLogic
Message Text	WLSSPI-0085.1: # of invalid login attempts (<$VALUE>) too high (>=<$THRESHOLD>) [Policy: <$NAME>]
Instruction Text	**Probable cause**: The number of invalid login attempts has exceeded the threshold value. This could be an attempted security breach. **Potential impact**: If the security breach is successful, the security of the WebLogic Server environment could be compromised. **Suggested action**: If the invalid login attempts is repeated frequently, you may wish to implement the weblogic.security.audit package. This will allow you to review the audit records to determine if there has been a security breach or an attempted security breach.
Report Type	Operator-initiated graph
Area	Security

Metric B285_PendingReqCount

Monitor Policy Name	WLSSPI_0285
Metric Name	B285_PendingReqCount
Metric Type	Alarming, Graphing
Description	Number of pending requests.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Warning: WLSSPI-0285.1, threshold 100
Collection Interval	15m
Message Group	WebLogic
Message Text	WLSSPI-0285.1: Number of pending requests (<$VALUE>) too high (>=<$THRESHOLD>) [Policy: <$NAME>]
Instruction Text	**Probable cause**: This metric is used to monitor the number of requests that are pending because they are waiting for an available thread. **Potential Impact**: • Applications might respond slowly. • Applications might block the threads to be available. • Application deadlock situation might arise. **Suggested Action**: Increase the size of the thread pool or mark them growable.
Report Type	N/A
Area	XML cache

Metric B286_PendingReqPct

Monitor Policy Name	WLSSPI_0286
Metric Name	B286_PendingReqPct
Metric Type	Alarming, Graphing
Description	Percentage of requests pending.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Major: WLSSPI-0286.1, threshold 98
Collection Interval	15m
Message Group	WebLogic
Message Text	WLSSPI-0286.1: Percentage of pending requests (<$VALUE>%) too high (>=<$THRESHOLD>%) [Policy: <$NAME>]
Instruction Text	**Probable cause**: This metric is used to monitor the percentage of the requests that are pending because they are waiting for an available thread. **Potential Impact**: • Applications might respond slowly. • Applications might block the threads to be available. • Application deadlock situation might arise. **Suggested Action**: Increase the size of the thread pool or mark them growable.
Report Type	N/A
Area	XML cache

Metric B287_ReqMaxWaitTime

Monitor Policy Name	WLSSPI_0287
Metric Name	B287_ReqMaxWaitTime
Metric Type	Alarming, Graphing
Description	Maximum time a request waits for a thread.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Warning: WLSSPI-0287.1, threshold 1000
Collection Interval	15m
Message Group	WebLogic
Message Text	WLSSPI-0287.1: Maximum time a request had to wait for a thread (<$VALUE> ms) too high (>=<$THRESHOLD> ms) [Policy: <$NAME>]
Instruction Text	**Probable cause**: This metric is used to monitor the maximum time a request had to wait for a thread. **Potential Impact**: • Applications might respond slowly. • Applications might block the threads to be available. • Application deadlock situation might arise. **Suggested Action**: Increase the size of the thread pool or mark them growable.
Report Type	N/A
Area	XML cache

Metric B288_StandbyThreadCount

Monitor Policy Name	WLSSPI_0288
Metric Name	B288_StandbyThreadCount
Metric Type	Alarming, Graphing
Description	Number of threads in the standby pool.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	Warning: WLSSPI-0288.1, threshold 10
Collection Interval	15m
HPOM Threshold	Minimum
Message Group	WebLogic
Message Text	WLSSPI-0288.1: Number of threads in the standby pool (<$VALUE>) too low (\<=<$THRESHOLD>) [Policy: <$NAME>]
Instruction Text	**Probable cause**: This metric is used to monitor the number of threads in the standby pool. Surplus threads that are not needed to handle the present work load are designated as standby and added to the standby pool. These threads are activated when more threads are needed. The value of this count must be in an acceptable range to meet performance criteria. **Potential Impact**: • Thread pool saturation condition might occur. • CPU utilization might keep shooting up consistently. **Suggested Action**: 1 To fix a saturated thread pool, keep changing the thread pool size in steps until the CPU utilization reaches between 75 to 85 percent. 2 Tune the application using a code profiling tool.
Report Type	N/A
Area	XML cache

Metric B289_MDBProcMsgRate

Monitor Policy Name	N/A
Metric Name	B289_MDBProcMsgRate
Metric Type	Reporting
Description	Number of processed messages.
Avail. WebLogic Server Version	9.x
Severity: Condition	N/A
Collection Interval	N/A
Message Group	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	Application Bank Report (ASCII report)
Area	Special Reports

Metric B092_ExQueThroughput

Monitor Policy Name	WLSSPI_0092
Metric Name	B092_ExQueThroughput
Metric Type	Graphing, Reporting
Description	Average number of requests completed by the execute queue per second.
Avail. WebLogic Server Version	9.x, 10.x
Severity: Condition	N/A
Collection Interval	N/A
Message Group	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	N/A
Area	Time Service

Metric B812_DomainInfo

Monitor Policy Name	N/A—Used to generate a report displayed by the View WebLogic Servers application
Metric Name	B812_DomainInfo
Metric Type	Reporting
Description	WebLogic domain configuration, cluster information, and physical machines.
Avail. WebLogic Server Version	10.x
Severity: Condition	N/A
Collection Interval	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	Application Bank Report (ASCII report)
Area	Special Reports

Metric B813_ApplicationInfo

Monitor Policy Name	N/A—Used to generate a report displayed by the View Deployed Apps application
Metric Name	B813_ApplicationInfo
Metric Type	Reporting
Description	Applications running on a WebLogic Server.
Avail. WebLogic Server Version	10.x
Severity: Condition	N/A
Collection Interval	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	Application Bank Report (ASCII report)
Area	Special Reports

Metric B815_TranInfo

Monitor Policy Name	N/A—Used to generate a report displayed by the Check WebLogic application
Metric Name	B815_TranInfo
Metric Type	Reporting
Description	Status for the WebLogic Server(s).
Avail. WebLogic Server Version	10.x
Severity: Condition	N/A
Collection Interval	N/A
Message Text	N/A
Instruction Text	N/A
Report Type	Application Bank Report (ASCII report)
Area	Special Reports

Metric B819_JVMHeapFreeMem

Monitor Policy Name	WBSSPI_0819
Metric Name	B819_JVMHeapFreeMem
Metric Type	Graphing
Description	JVM Heap Free Memory in kilobytes
Avail. WebLogic Server Version	10.x
Severity: Condition	N/A
Collection Interval	15m
Message Text	N/A
Instruction Text	N/A
Report Type	N/A
Area	JVM

Metric B820_SrvrRestReqrd

Monitor Policy Name	WLSSPI_0820
Metric Name	B820_SrvrRestReqrd
Metric Type	Alarming, Graphing
Description	Server Restart Required
Avail. WebLogic Server Version	10.x
Severity: Condition	Warning: WLSSPI-0820.1, threshold 1
Collection Interval	15m
Message Group	WebLogic
Message Text	WLSSPI-0820.10: The server must be restarted in order to activate configuration changes. WLSSPI 0820.11: No new configuration changes needing the server restart.
Instruction Text	**Probable cause**: Indicates whether the server must be restarted in order to activate configuration changes. **Potential Impact**: The configured changes does not occur until the server is restarted. **Suggested Action**: Restart the server.
Report Type	N/A
Area	Server

Metric B821_Suspnded

Monitor Policy Name	WLSSPI_0821
Metric Name	B821_Suspnded
Metric Type	Alarming, Graphing
Description	RequestManager suspended
Avail. WebLogic Server Version	10.x
Severity: Condition	Warning: WLSSPI-0821.1, threshold 1
Collection Interval	15m
Message Group	WebLogic
Message Text	WLSSPI-0821.10: Thread pool RequestManager is suspended. WLSSPI 0821.11: Thread Pool RequestManager is running.
Instruction Text	**Probable cause**: Indicates if the RequestManager is suspended. **Potential Impact**: A suspended manager will not dequeue work and dispatch threads until the RequestManager is resumed. **Suggested Action**: For information on tuning the execute thread pool, see the *Performance and Tuning* documentation for your WebLogic Server version available through **http://e-docs.bea.com/**.
Report Type	N/A
Area	ThreadPool

Metric B822_DstroydTlCnt

Monitor Policy Name	WLSSPI_0822
Metric Name	B822_DstroydTlCnt
Metric Type	Alarming, Graphing
Description	Total number of times a bean instance from the pool was destroyed due to a non-application Exception being thrown from it
Avail. WebLogic Server Version	10.x
Severity: Condition	Warning: WLSSPI-0822.1, threshold 10
Collection Interval	15m
Message Group	WebLogic
Message Text	WLSSPI-0822.10: # of times a bean instance from this pool was destroyed due to a non-application Exception being thrown from it (<$VALUE>) too high (>= <$THRESHOLD>) WLSSPI 0822.11: # of times a bean instance from this pool was destroyed due to a non-application Exception being thrown from it (<$VALUE>) is within the threshold(<$THRESHOLD>).
Instruction Text	**Probable cause**: Provides a count of the total number of times a bean instance from this pool was destroyed due to a non-application Exception being thrown from it. **Potential Impact**: The Business logic associated with this EJB will not complete successfully. This action impacts the application response time. **Suggested Action**: Check the exceptions thrown and refer the documentation for your WebLogic Server version available through **http://e-docs.bea.com/**. **Disclaimer**: Clicking on a URL in the above text might take the user to a non-HP site. HP does not control the content of any non-HP site.
Report Type	N/A
Area	EJBPool

Metric B823_EJBMssdCntRtSum

Monitor Policy Name	WLSSPI_0823
Metric Name	B823_EJBMssdCntRtSum
Metric Type	Alarming, Graphing, and Reporting
Description	Number of times a failed attempt was made to get an instance from the free pool
Avail. WebLogic Server Version	10.x
Severity: Condition	Warning: WLSSPI-0823.1, threshold 10
Collection Interval	15m
Message Group	WebLogic
Message Text	WLSSPI-0823.10: # of times a failed attempt was made to get an instance from the free pool (<$VALUE>) too high (>= <$THRESHOLD>) WLSSPI 0823.11: # of times a failed attempt was made to get an instance from the free pool (<$VALUE>)is within the threshold (<$THRESHOLD>)
Instruction Text	**Probable cause**: The total number of times a failed attempt was made to get an instance from the free pool. **Potential Impact**: An attempt to get a bean from the pool fails if there are no available instances in the pool. This results in delayed execution of the business logic and hence slows the response time of the application. **Suggested Action**: Verify that the max-beans-in-free-pool element has not been set too low. Also, while WebLogic Server will always try to allocate a new bean instance if one is not available, in reality you are limited by the number of executable threads. In most cases, each thread will need at most, a single bean instance. For information on tuning EJB parameters, see the *Performance and Tuning* documentation for your WebLogic Server version available through **http://e-docs.bea.com/**. **Disclaimer**: Clicking on a URL in the above text might take the user to a non-HP site. HP does not control the content of any non-HP site.
Report Type	Automatic action, Operator-initiated
Area	EJBPool

Metric B824_EJBMssdCntRt

Monitor Policy Name	WLSSPI_0824
Metric Name	B824_EJBMssdCntRt
Metric Type	Alarming
Description	Number of times a failed attempt was made to get an instance from the free pool per minute
Avail. WebLogic Server Version	10.x
Severity: Condition	Warning: WLSSPI-0824.1, threshold 10
Collection Interval	15m
Message Group	WebLogic
Message Text	WLSSPI-0824.10: # of times a failed attempt was made to get an instance from the free pool (<$VALUE>) too high (>= <$THRESHOLD>) WLSSPI 0824.11: # of times a failed attempt was made to get an instance from the free pool (<$VALUE>) is within the threshold(<$THRESHOLD>)
Instruction Text	**Probable cause**: The total number of times a failed attempt was made to get an instance from the free pool. **Potential Impact**: An attempt to get a bean from the pool fails if there are no available instances in the pool. This results in delayed execution of the business logic and hence slows the response time of the application. **Suggested Action**: Verify that the max-beans-in-free-pool element has not been set too low. Also, while WebLogic Server will always try to allocate a new bean instance if one is not available, in reality you are limited by the number of executable threads. In most cases, each thread will need at most, a single bean instance. For information on tuning EJB parameters, see the *Performance and Tuning* documentation for your WebLogic Server version available through **http://e-docs.bea.com/**. **Disclaimer**: Clicking on a URL in the above text might take the user to a non-HP site. HP does not control the content of any non-HP site.
Report Type	N/A
Area	EJBPool

WebLogic SPI LogFile Policies

This section describes the Smart Plug-in for BEA WebLogic Server (WebLogic SPI) policies that monitor the logfiles of WebLogic Server and WebLogic SPI. These policies detect error messages internal to WebLogic SPI, as well as changes made to the WebLogic Server XML configuration files.

WLSSPI-Error Log

This logfile policy monitors the WLSSPI log file located at `%OvAgentdir%\wasspi\wls\log\wasspi_perl.log`.

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

WebLogic Log Policy

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

WLSSPI Java Discovery Error Log

This logfile policy monitors the WLSSPI discovery error log file located at `%OvAgentdir%\wasspi\wls\log\discovery.log`.

Description	Monitors the WLSSPI Java Discovery error log.
Severity	Normal Major Critical Warning
Message Group	WLSSPI
Help Text	Available for each error as detected: WASSPI-1 through WASSPI-254. For detailed help text for all error messages, see Chapter 6 of *HP Operations Smart Plug-in for BEA WebLogic Server Installation and Configuration Guide*.

WLSSPI Java Collector Error Log

This logfile policy monitors the WLSSPI discovery error log file located at `%OvAgentdir%\wasspi\wls\log\collector.log`.

Description	Monitors the WLSSPI Java Collector error log.
Severity	Normal Major Critical Warning
Message Group	WLSSPI
Help Text	Available for each error as detected: WASSPI-1 through WASSPI-254. For detailed help text for all error messages, see Chapter 6 of *HP Operations Smart Plug-in for BEA WebLogic Server Installation and Configuration Guide*.

2 WebLogic SPI Tools, Reports, and Graphs

This chapter provides specific information on WebLogic SPI Tools, Reports, and Graphs. For generic information on these topics, see the *HP Operations Smart Plug-in for BEA WebLogic Server Installation and Configuration Guide for UNIX*.

Tools

The WebLogic SPI offers centralized tools which help you monitor and manage systems using WebLogic Server. The WebLogic SPI tools allow you to configure the management server's connection to selected server instances on specific managed nodes. The WebLogic SPI tools include configuration, troubleshooting, and report-generating utilities. In the Tool Bank window, the SPI for WebLogic tools are divided into the following tool groups:

* WebLogic Admin

* Metric Reports

* SPI Admin

* JMX Metric Builder: This tool group is available *only if* you install the SPIJMB software bundle.

Reports

The reports show consolidated, historical data generated as web pages in management-ready presentation format which helps you analyze the performance of the WebLogic Server over a period of time. This section provides the reports generated on integrating WebLogic SPI with HP Reporter or HP Performance Insight.

HP Reporter Reports for the WebLogic SPI

The reports available through the integration of HP Reporter and the WebLogic SPI show consolidated data on server performance and availability on WebLogic Server systems. In addition, other reports show data for single systems. These reports are available the day following your installation of the WebLogic SPI report package on the Reporter Windows system.

The tables that follow show all pre-defined reports.

Table 4   Performance

Report Title	Description	WebLogic Version	Metric
TOP 20 Queue Throughput	Shows the average throughput for the top 20 execute queues of all servers.	9.x, 10.x	10
TOP 20 Servlet Average Execution Times	Shows the average execution time for the top 20 requested servlets for all servers. Along with the servlet name the associated application name is also displayed.	9.x, 10.x	240
TOP 20 Servlet Request Rates	Shows the total servlet request rate being received by the top 20 servers Along with the servlet name, the associated application name is also displayed.	9.x, 10.x	242
Execute Queue Thread Utilization	Shows the execute queue`s thread utilization as a percent for the top 20 execute queues of all servers.	9.x, 10.x	11
TOP 20 Average Transaction Throughput	Shows the average transaction throughput for the top 20 servers.	9.x, 10.x	76
TOP 20 EJB Free Pool Wait Rate	Shows the number of times per minute that a request had to wait for an EJB to become available for the top 20 servers.	9.x, 10.x	25
TOP 20 EJB Timeout Rate	Shows the number of times per minute that a request timed out while waiting for an EJB to become available for the top 20 servers.	9.x, 10.x	26
TOP 20 EJB Transaction Throughput	Shows the average EJB transaction throughput for the top 20 servers.	9.x, 10.x	35

Table 5   Availability

Report Title	Description	WebLogic Version	Metric
Server Availability	Contains a daily histogram showing the percentages of uptime, downtime for all servers.	9.x, 10.x	2

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Table 6   Single System Reports

Report Title	Description	WebLogic Version	Metric
Server Availability Details	Contains spectrum graphs showing minutes of uptime by day and hour for each WebLogic Server.	9.x, 10.x	2
JDBC Throughput And Connection Utilization	Charts the throughput against the utilization for the JDBC connection pools for each WebLogic Server. Shows the JDBC data source and the associated application name (if any).	9.x, 10.x	260, 262
Throughput And Utilization Of JMS Server By Byte Count	Charts the throughput against the queue utilization by byte count for destinations on the JMS servers for each WebLogic Server.	9.x, 10.x	252, 256
Throughput And Utilization Of JMS Server By Message Count	Charts the throughput against queue utilization by message count on the JMS servers for each WebLogic Server.	9.x, 10.x	251, 255
Queue Utilization versus Throughput On Server	Shows the throughput against the thread utilization for each WebLogic Server.	9.x, 10.x	10,11
TOP 20 Servlet Request Rate On Server	Shows a stacked area chart with the request rate (requests per second) for the top 20 servlets for each day and a table with data of the top 100 servlets for each WebLogic Server.	9.x, 10.x	242
Transaction Throughput On Server	Shows the average transaction throughput for each WebLogic Server by day.	9.x, 10.x	76
Transaction Rollback Types	Shows the transaction rollbacks by error type for each WebLogic Server.	9.x, 10.x	72-75
TOP 20 Stateful and Entity EJB Cache Utilization	Shows the EJB cache utilization percent for the top 20 EJBs for each WebLogic Server. Along with the EJB instance, the associated application name also will be displayed	9.x, 10.x	238

HP Performance Insight Reports for the WebLogic SPI

The reports available through the integration of HP Performance Insight and the WebLogic SPI show consolidated data on server performance and availability on WebLogic Server systems. See the *Application Server Report Pack User Guide* for more information about the WebLogic SPI reports and how to integrate the WebLogic SPI with HP Performance Insight.

The table that follow shows all pre-defined reports.

Report Title	Description	Metric
Server Availability—Throughput	The server availability chart plots the availability status of the application server on an hourly, daily, and monthly basis. The transaction throughput chart displays the number of transactions processed by the application server per second.	2, 76
EJB Pool Utilization	The percentage of EJB pool utilization.	235
JDBC Throughput—Utilization	The percentage of available JDBC connection in the connection pool and the number of clients serviced by the connection pool per second.	260, 262
Near Real Time Server Availability	The server status for the last six hours.	2, 76
Servlet Request Rate—Response Time	The servlet request rate measures the number of requests for a servlet per second. The servlet response time chart shows the average execution time for an individual servlet.	240, 242
EJB Cache Utilization	The percentage of EJBs in the cache in use.	238
EJB Transaction Reports	The EJB Free Pool Wait Rate measures the number of times per minute that no stateless session beans were available from the free pool. The EJB Load Timeout Rate measures the number of times a client timed out waiting for an EJB. The EJB Transaction Throughput measures the number of EJB transactions per second.	25, 26, 35
Execute Queue Throughput—Utilization	The Execute Queue Throughput rate measures the number of requests serviced by an execute queue per second. The Queue Utilization chart shows the percentage of threads used for a server's execute queue.	10, 11
JMS Throughput—Utilization	The JMS Throughput report indicates the number of messages/bytes that have passed through the JMS per second. The JMS Utilization report indicates what percentage of a JMS queue is filled based on the number of messages or bytes.	251, 252, 255, 256
Near Real TIme Execute Queue Throughput—Utilization	The throughput or utilization trend of execute queues for the last six hours.	10, 11
Server Transaction Rollback	The percentage of transactions that are rolled back due to resource, application, timeout, or system error.	72 - 75

Graphs

The tables that follow show the graphs available for mapping collected metric values. You can use the View Graphs tool to view graphs of any of the metrics listed in the tables below. The graph will appear in your Web browser.

Table 7   JVM

Metric Number and Name	Metric Description
B005_JVMMemUtilPct	Percentage of heap space used in the JVM.
B819_JVMHeapFreeMem	JVM Heap Free Memory in kilobytes

Table 8   Server Performance

Metric Number and Name	Metric Description
B010_ExQueThruRate	Number of requests serviced by an execute queue per second.
B011_ExQThrdUtilPct	Percentage of threads in use for a server's execute queue.
B012_ExQueWaitCnt	The number of client requests waiting to be serviced
B013_ SocketTrafficRt	Number of socket connections opened per second.
B014_ActiveSocketCnt	Number of socket connections opened.

Table 9   Enterprise Java Beans (EJB)

Metric Number and Name	Metric Description
B025_EJBPoolWtRtSum	Number of times per minute that no EJB beans were available from the free pool.
B026_EJBTimeoutRtSum	Number of times per minute a client timed out waiting for an EJB bean.
B035_EJBTranThruRt	Number of EJB transactions per second.
B036_EJBTranRbRt	Number of EJB transactions rolled back per second.
B822_DstroydTlCnt	Total number of times a bean instance from the pool was destroyed due to a non-application Exception being thrown from it
B823_EJBMssdCntRt Sum	Number of times a failed attempt was made to get an instance from the free pool

Table 10   JDBC

Metric Number and Name	Metric Description
B061_JDBCConPlWtCnt	Number of clients waiting for a connection from connection pools.
B063_JDBCConLkRtSum	Number of unclosed JDBC connections and JDBC connections that have exceeded their maximum idle times in the connection pool per minute.

Table 11   Connector Service

Metric Number and Name	Metric Description
B078_CnctrLeakRtSum	Number of unclosed connector connections and connector connections that have exceeded their maximum idle times in the connection pool per minute.

Table 12   Transaction

Metric Number and Name	Metric Description
B070_TranAveTime	Average commit time for transactions.
B071_TranRollbackPct	Percentage of transactions rolled back, based on the total.
B072_TranResErrRbPct	Percentage of the transactions rolled back due to resource error.
B073_TranAppErrRbPct	Percentage of transactions rolled back due to application error.
B074_TranTimErrRbPct	Percentage of transactions rolled back due to a timeout error.
B075_TranSysErrRbPct	Percentage of the transactions rolled back due to system error.
B076_TranThruRate	Number of transactions processed per second.
B077_TranHeurCnt	Percentage of transactions returning a heuristic decision.
B079_TranCapUtil	Percentage utilization of transaction capacity.

Table 13   Cluster

Metric Number and Name	Metric Description
B080_ClsOutMesFailRt	Number of multicast messages per minute to cluster re-sent.
B081_ClsInMesFailRt	Number of multicast messages per minute from cluster lost by server.

Table 14   Security

Metric Number and Name	Metric Description
B085_InvLoginAttCnt	Number of invalid login attempts.

Table 15   WebLogic Time Service

Metric Number and Name	Metric Description
B091_TimeSerThruRt	Number of triggers executed per second.

Table 16   Server

Metric Number and Name	Metric Description
B820_SrvrRestReqrd	Server Restart Required

Table 17   Thread Pool

Metric Number and Name	Metric Description
B821_Suspnded	RequestManager suspended

A WebLogic SPI Golden Metrics

Golden metrics are a set of metrics which monitor the basic functionality of your WebLogic 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 WebLogic Server. Implementing golden metrics and taking action against the events generated by these metrics ensure the smooth functioning of the WebLogic server.

Table 18   Golden Metrics

Metric Type	Metric Name
Availability	Metric B001_ServerStatus
JVM	Metric B005_JVMMemUtilPct
Performance	Metric B011_ExQThrdUtilPct
EJB	Metric B026_EJBTimeoutRt
	Metric B036_EJBTranRbRt
Transactions	Metric B071_TranRollbackPct
	Metric B072_TranResErrRbPct
	Metric B073_TranAppErrRbPct
	Metric B074_TranTimErrRbPct
	Metric B075_TranSysErrRbPct
Cluster	Metric B080_ClsOutMesFailRt
	Metric B081_ClsInMesFailRt
	Metric B082_ClusterHealth
Servlets	Metric B242_ServletReqRate
Web Applications	Metric B245_WebAppSessionCnt
Java Message Service (JMS)	Metric B251_JMSUtilByMessagePct
	Metric B252_JMSUtilByBytePct
JDBC	Metric B260_JDBCConnectionPoolUtil
	Metric B264_JDBCConnectionPoolFailures
Connector	Metric B270_ConnectorConnectionPoolUtil
XML cache	Metric B287_ReqMaxWaitTime

B Data Store Table for WebLogic Server

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

Table 19   Data Store Metrics of WebLogic SPI

Table Name	Area	Metric Description	Column Name
WLSSPI_RPT_MET RICS	Server	Status of a server - reporting	B002_ServerStatusRep
WLSSPI_METRICS	JVM	% of heap space used in the JVM	B005_JVMMemUtilPct
WLSSPI_METRICS WLSSPI_RPT_MET RICS	ThreadPool	# of requests serviced by an execute queue per second	B010_ExQueThruRate
WLSSPI_METRICS WLSSPI_RPT_MET RICS	ThreadPool	% of threads in use for a server's execute queue.	B011_ExQThrdUtilPct
WLSSPI_METRICS	ThreadPool	# of client requests waiting to be serviced	B012_ExQueWaitCnt
WLSSPI_METRICS	Server	# of socket connections opened per second	B013_SocketTrafficRt
WLSSPI_METRICS	Server	# of socket connections opened	B014_ActiveSocketCnt
WLSSPI_METRICS	Server	% of permissible restarts	B015_SrvrRestartsPct
WLSSPI_METRICS WLSSPI_RPT_MET RICS	EJB	# of times no EJB beans were available from the free pool per minute	B025_EJBPoolWtRtSum
WLSSPI_METRICS WLSSPI_RPT_MET RICS	EJB	# of times a client timed out waiting for an EJB bean per minute	B026_EJBTimeoutRtSum
WLSSPI_METRICS WLSSPI_RPT_MET RICS	EJB	# of EJB transactions per second	B035_EJBTranThruRt

Table 19 Data Store Metrics of WebLogic SPI

Table Name	Area	Metric Description	Column Name
WLSSPI_METRICS WLSSPI_RPT_MET RICS	EJB	# of EJB transactions rolled back per second	B036_EJBTranRbRt
WBSSPI_METRICS WBSSPI_RPT_MET RICS	JDBC	# of clients waiting for a connection from connection pools	B061_JDBCConPlWtCnt
WLSSPI_METRICS	JDBC	# of unclosed JDBC connections and JDBC connections that have exceeded their max idle times	B063_JDBCConLkRtSum
WLSSPI_METRICS	JDBC	Average commit time for transactions	B070_TranAveTime
WLSSPI_METRICS WLSSPI_RPT_MET RICS	JDBC	% of transactions rolled back	B071_TranRollbackPct
WLSSPI_METRICS WLSSPI_RPT_MET RICS	JDBC	% of transactions rolled back due to resource error	B072_TranResErrRbPct
WLSSPI_METRICS WLSSPI_RPT_MET RICS	JDBC	% of transactions rolled back due to an application error	B073_TranAppErrRbPct
WLSSPI_METRICS WLSSPI_RPT_MET RICS	JDBC	% of transactions rolled back due to timeout error	B074_TranTimErrRbPct
WLSSPI_METRICS WLSSPI_RPT_MET RICS	JDBC	% of transactions rolled back due to system error	B075_TranSysErrRbPct
WLSSPI_METRICS WLSSPI_RPT_MET RICS	JDBC	# of transactions processed per second	B076_TranThruRate
WLSSPI_METRICS WLSSPI_RPT_MET RICS	JDBC	% of transactions returning a heuristic decision	B077_TranHeurCnt
WLSSPI_METRICS	JDBC	# of unclosed connector connections and ones that have exceeded their max idle time	B078_CnctrLeakRtSum
WLSSPI_METRICS WLSSPI_RPT_MET RICS	JDBC	% utilization of transaction capacity	B079_TranCapUtil

Table 19   Data Store Metrics of WebLogic SPI

Table Name	Area	Metric Description	Column Name
WLSSPI_METRICS	Cluster	# of multicast messages to cluster that were re-sent per minute	B080_ClsOutMesFailRt
WLSSPI_METRICS	Cluster	# of multicast messages from cluster lost by server per minute	B081_ClsInMesFailRt
WLSSPI_METRICS	Server	# of invalid login attempts	B085_InvLoginAttCnt
WLSSPI_METRICS WLSSPI_RPT_MET RICS	ThreadPool	Average # of requests completed by the execute per second	B092_ExQueThroughput
WLSSPI_RPT_MET RICS	EJB	% of EJBs in the cache in use	B238_EJBCacheHitPct
WLSSPI_RPT_MET RICS	WebModule	Ave execution time for a servlet in msec	B240_ServletAveExecTime
WLSSPI_RPT_MET RICS	WebModule	Time spent in a servlet	B241_ServletTimeCnt
WLSSPI_RPT_MET RICS	WebModule	# of requests for a servlet per second	B242_ServletReqRate
WLSSPI_RPT_MET RICS	WebModule	# of open sessions for a web application	B245_WebAppSessionCnt
WLSSPI_RPT_MET RICS	WebModule	# of open sessions for a web application per second	B246_WebAppHitRt
WLSSPI_RPT_MET RICS	JMS	% of JMS server filled based on # of All messages	B251_JMSUtilByMessageP ct
WLSSPI_RPT_MET RICS	JMS	% of the JMS server filled, based on total bytes	B252_JMSUtilByBytePct
WLSSPI_RPT_MET RICS	JMS	% of time server threshold condition satisfied based on # of messages	B253_JMSThreshByMessa gePct
WLSSPI_RPT_MET RICS	JMS	% of time server threshold condition satisfied based on total bytes	B254_JMSThreshByBytePc t

Table 19   Data Store Metrics of WebLogic SPI

Table Name	Area	Metric Description	Column Name
WLSSPI_RPT_MET RICS	JMS	# of messages passed through JMS server per second	B255_JMSServerThruMess ageRt
WLSSPI_RPT_MET RICS	JMS	# of bytes passed through JMS server per second	B256_JMSServerThruByte Rt
WLSSPI_RPT_MET RICS	JDBC	% utilization of available JDBC connections in connection pool	B260_JDBCConnectionPool Util
WLSSPI_RPT_MET RICS	JDBC	# of clients serviced by connection pool per second	B262_JDBCConnectionPool ThruRt
WLSSPI_RPT_MET RICS	JDBC	Rate of leaked connections for the JDBC connection pool	B263_JDBCConLkRt
WLSSPI_RPT_MET RICS	JDBC	JDBC connection pool connection delay	B265_JDBCConTime
WLSSPI_RPT_MET RICS	JCA	% utilization of available JCA connections in connection pool	B270_CnctrPoolUtil
WLSSPI_RPT_MET RICS	JCA	Rate of leaked connections for the JCA connection pool	B278_CnctrLeakRt
WLSSPI_RPT_MET RICS	Server	Total number of cached entries on disk which contain external references in an XML parser	B281_XMLCacheDskSize
WLSSPI_RPT_MET RICS	Server	Total number of cached entries in memory which contain external references in an XML parser	B282_XMLCacheMemSize
WLSSPI_METRICS	ThreadPool	Number of deferred requests	B283_DeferredReqsCnt
WLSSPI_METRICS	ThreadPool	Request wait time for a thread	B284_ReqWaitTimThrd
WLSSPI_METRICS	ThreadPool	Number of pending requests	B285_PendingReqCount

Table 19   Data Store Metrics of WebLogic SPI

Table Name	Area	Metric Description	Column Name
WLSSPI_METRICS	Server	Percentage of pending requests	B286_PendingReqPct
WLSSPI_METRICS	ThreadPool	Maximum wait time for a thread request	B287_ReqMaxWaitTime
WLSSPI_METRICS	ThreadPool	Number of threads in the standby pool	B288_StandbyThrdCnt
WLSSPI_RPT_METRICS	EJB	Number of processed messages	B289_MDBProcMsgRate
WLSSPI_RPT_METRICS	Server	WebLogic domain configuration, cluster information, and physical machines	B812_DomainInfo
WLSSPI_METRICS	JVM	JVM Heap Free Memory in kilobytes	B819_JVMHeapFreeMem
WLSSPI_METRICS	Server	Server Restart Required	B820_SrvrRestReqrd
WLSSPI_METRICS	Server	RequestManager suspended	B821_Suspnded
WLSSPI_METRICS	EJB	Total number of times a bean instance from the pool was destroyed due to a non-application Exception being thrown from it	B822_DstroydTlCnt
WLSSPI_METRICS WLSSPI_RPT_METRICS	EJB	Number of times a failed attempt was made to get an instance from the free pool	B823_EJBMssdCntRtSum

C Data Store Details for Reports

The WebLogic SPI creates the following data store details for reports for WebLogic Server.

Table 20   Data Store for Reports

Report Name	Report Table Name	Report Table Attributes	Data Store Class Name	Policy Logging Data
a_wls_availability.rpt g_wls_availability.rpt s_wls_availability_det ails.rpt a_wls_availability.rpt g_wls_availability.rpt s_wls_availability_det ails.rpt	WEBLOGIC	ID	WEBLOGIC	WLSSPI-05min
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		METRICID		
		OBJECTNAME		
		SERVERNAME		
		SORTID		
		VALUE		
		VALUEID		
		APPLICATION NAME		

Table 20   Data Store for Reports

Report Name	Report Table Name	Report Table Attributes	Data Store Class Name	Policy Logging Data
a_wls_perf_server_tput_top.rpt g_wls_perf_server_tput_top.rpt s_wls_perf_load_exec_queues.rpt a_wls_perf_server_tput_top.rpt g_wls_perf_server_tput_top.rpt s_wls_perf_load_exec_queues.rpt	WEBLOGIC	ID SYSTEMNAME DATETIME GMT SHIFTNAME METRICID OBJECTNAME SERVERNAME SORTID VALUE VALUEID APPLICATION NAME	WEBLOGIC	WLSSPI-15min
a_wls_load_exec_util_top.rpt g_wls_load_exec_util_top.rpt s_wls_perf_load_exec_queues.rpt a_wls_load_exec_util_top.rpt g_wls_load_exec_util_top.rpt s_wls_perf_load_exec_queues.rpt	WEBLOGIC	ID SYSTEMNAME DATETIME GMT SHIFTNAME METRICID OBJECTNAME SERVERNAME SORTID VALUE VALUEID APPLICATION NAME	WEBLOGIC	WLSSPI_0011 WLSSPI-15min

Table 20   Data Store for Reports

Report Name	Report Table Name	Report Table Attributes	Data Store Class Name	Policy Logging Data
a_wls_load_ejb_pool_rate_top.rpt g_wls_load_ejb_pool_rate_top.rpt a_wls_load_ejb_pool_rate_top.rpt g_wls_load_ejb_pool_rate_top.rpt	WEBLOGIC	ID SYSTEMNAME DATETIME GMT SHIFTNAME METRICID OBJECTNAME SERVERNAME SORTID VALUE VALUEID APPLICATION NAME	WEBLOGIC	WLSSPI_0025 WLSSPI-15min
a_wls_load_ejb_timeout_rate_top.rpt g_wls_load_ejb_timeout_rate_top.rpt a_wls_load_ejb_timeout_rate_top.rpt g_wls_load_ejb_timeout_rate_top.rpt	WEBLOGIC	ID SYSTEMNAME DATETIME GMT SHIFTNAME METRICID OBJECTNAME SERVERNAME SORTID VALUE VALUEID APPLICATION NAME	WEBLOGIC	WLSSPI_0026 WLSSPI-15min

Table 20   Data Store for Reports

Report Name	Report Table Name	Report Table Attributes	Data Store Class Name	Policy Logging Data
a_wls_perf_ejb_trans_t put_top.rpt g_wls_perf_ejb_trans_t put_top.rpt a_wls_perf_ejb_trans_t put_top.rpt g_wls_perf_ejb_trans_t put_top.rpt	WEBLOGIC	ID	WEBLOGIC	WLSSPI_0035 WLSSPI-15min
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		METRICID		
		OBJECTNAME		
		SERVERNAME		
		SORTID		
		VALUE		
		VALUEID		
		APPLICATION NAME		
s_wls_trans_rollback_ percent.rpt s_wls_trans_rollback_ percent.rpt	WEBLOGIC	ID	WEBLOGIC	WLSSPI_0072 WLSSPI-05min
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		METRICID		
		OBJECTNAME		
		SERVERNAME		
		SORTID		
		VALUE		
		VALUEID		
		APPLICATION NAME		

Table 20   Data Store for Reports

Report Name	Report Table Name	Report Table Attributes	Data Store Class Name	Policy Logging Data
s_wls_trans_rollback_percent.rpt s_wls_trans_rollback_percent.rpt	WEBLOGIC	ID	WEBLOGIC	WLSSPI_0073 WLSSPI-05min
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		METRICID		
		OBJECTNAME		
		SERVERNAME		
		SORTID		
		VALUE		
		VALUEID		
		APPLICATION NAME		
s_wls_trans_rollback_percent.rpt s_wls_trans_rollback_percent.rpt	WEBLOGIC	ID	WEBLOGIC	WLSSPI_0074 WLSSPI-05min
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		METRICID		
		OBJECTNAME		
		SERVERNAME		
		SORTID		
		VALUE		
		VALUEID		
		APPLICATION NAME		

Table 20   Data Store for Reports

Report Name	Report Table Name	Report Table Attributes	Data Store Class Name	Policy Logging Data
s_wls_trans_rollback_ percent.rpt s_wls_trans_rollback_ percent.rpt	WEBLOGIC	ID	WEBLOGIC	WLSSPI_0075 WLSSPI-05min
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		METRICID		
		OBJECTNAME		
		SERVERNAME		
		SORTID		
		VALUE		
		VALUEID		
		APPLICATION NAME		
a_wls_perf_trans_tput _top.rpt g_wls_perf_trans_tput _top.rpt s_wls_trans_throughp ut.rpt a_wls_perf_trans_tput _top.rpt g_wls_perf_trans_tput _top.rpt s_wls_trans_throughp ut.rpt	WEBLOGIC	ID	WEBLOGIC	WLSSPI-05min
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		METRICID		
		OBJECTNAME		
		SERVERNAME		
		SORTID		
		VALUE		
		VALUEID		
		APPLICATION NAME		

Table 20   Data Store for Reports

Report Name	Report Table Name	Report Table Attributes	Data Store Class Name	Policy Logging Data
s_wls_state_ejb_cache_util_top.rpt s_wls_state_ejb_cache_util_top.rpt	WEBLOGIC	ID	WEBLOGIC	WLSSPI_0238 WLSSPI-15min
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		METRICID		
		OBJECTNAME		
		SERVERNAME		
		SORTID		
		VALUE		
		VALUEID		
		APPLICATION NAME		
a_wls_servlet_exec_time_top.rpt g_wls_servlet_exec_time_top.rpt s_wls_servlet_request_rate.rpt a_wls_servlet_exec_time_top.rpt g_wls_servlet_exec_time_top.rpt s_wls_servlet_request_rate.rpt	WEBLOGIC	ID	WEBLOGIC	WLSSPI_0240 WLSSPI-1h
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		METRICID		
		OBJECTNAME		
		SERVERNAME		
		SORTID		
		VALUE		
		VALUEID		
		APPLICATION NAME		

Table 20　Data Store for Reports

Report Name	Report Table Name	Report Table Attributes	Data Store Class Name	Policy Logging Data
a_wls_load_svlt_req_top.rpt a_wls_servlet_exec_time_top.rpt g_wls_load_svlt_req_top.rpt g_wls_servlet_exec_time_top.rpt s_wls_servlet_request_rate.rpt a_wls_load_svlt_req_top.rpt a_wls_servlet_exec_time_top.rpt g_wls_load_svlt_req_top.rpt g_wls_servlet_exec_time_top.rpt s_wls_servlet_request_rate.rpt	WEBLOGIC	ID SYSTEMNAME DATETIME GMT SHIFTNAME METRICID OBJECTNAME SERVERNAME SORTID VALUE VALUEID APPLICATION NAME	WEBLOGIC	WLSSPI_0242 WLSSPI-1h
s_wls_perf_load_jms_servers_msg.rpt s_wls_perf_load_jms_servers_msg.rpt	WEBLOGIC	ID SYSTEMNAME DATETIME GMT SHIFTNAME METRICID OBJECTNAME SERVERNAME SORTID VALUE VALUEID APPLICATION NAME	WEBLOGIC	WLSSPI_0251 WLSSPI-15min

Table 20   Data Store for Reports

Report Name	Report Table Name	Report Table Attributes	Data Store Class Name	Policy Logging Data
s_wls_perf_load_jms_servers_byte.rpt s_wls_perf_load_jms_servers_byte.rpt	WEBLOGIC	ID	WEBLOGIC	WLSSPI_0252 WLSSPI-15min
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		METRICID		
		OBJECTNAME		
		SERVERNAME		
		SORTID		
		VALUE		
		VALUEID		
		APPLICATION NAME		
s_wls_perf_load_jms_servers_msg.rpt s_wls_perf_load_jms_servers_msg.rpt	WEBLOGIC	ID	WEBLOGIC	WLSSPI-15min
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		METRICID		
		OBJECTNAME		
		SERVERNAME		
		SORTID		
		VALUE		
		VALUEID		
		APPLICATION NAME		

Table 20   Data Store for Reports

Report Name	Report Table Name	Report Table Attributes	Data Store Class Name	Policy Logging Data
s_wls_perf_load_jms_servers_byte.rpt s_wls_perf_load_jms_servers_byte.rpt	WEBLOGIC	ID	WEBLOGIC	WLSSPI-15min
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		METRICID		
		OBJECTNAME		
		SERVERNAME		
		SORTID		
		VALUE		
		VALUEID		
		APPLICATION NAME		
s_wls_perf_load_jdbc_conn_pools.rpt s_wls_perf_load_jdbc_conn_pools.rpt	WEBLOGIC	ID	WEBLOGIC	WLSSPI_0260 WLSSPI-05min
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		METRICID		
		OBJECTNAME		
		SERVERNAME		
		SORTID		
		VALUE		
		VALUEID		
		APPLICATION NAME		

Table 20   Data Store for Reports

Report Name	Report Table Name	Report Table Attributes	Data Store Class Name	Policy Logging Data
s_wls_perf_load_jdbc_conn_pools.rpt s_wls_perf_load_jdbc_conn_pools.rpt	WEBLOGIC	ID	WEBLOGIC	WLSSPI-05min
		SYSTEMNAME		
		DATETIME		
		GMT		
		SHIFTNAME		
		METRICID		
		OBJECTNAME		
		SERVERNAME		
		SORTID		
		VALUE		
		VALUEID		
		APPLICATION NAME		

D Data Store Details for Graphs

The WebLogic SPI creates the following data store details for graphs for WebLogic Server.

Table 21   Data Store for Graphs

Graph Name	Policy Logging Data	Spec File	Data StoreData Class
JVM Utilization	WLSSPI_0005 WLSSPI-15min	wasspi_wls_graph.sp	wasspi_wls_graph
ThreadPool	WLSSPI_0010 WLSSPI-15min	wasspi_wls_graph.sp	wasspi_wls_graph
	WLSSPI_0011 WLSSPI-15min	wasspi_wls_graph.sp	wasspi_wls_graph
	WLSSPI_0012 WLSSPI-15min	wasspi_wls_graph.sp	wasspi_wls_graph
Server Statistics	WLSSPI_0013 WLSSPI-15min	wasspi_wls_graph.sp	wasspi_wls_graph
	WLSSPI_0014 WLSSPI-15min	wasspi_wls_graph.sp	wasspi_wls_graph
	WLSSPI_0015 WLSSPI-15min	wasspi_wls_graph.sp	wasspi_wls_graph
EJB Performance	WLSSPI_0025 WLSSPI-15min	wasspi_wls_graph.sp	wasspi_wls_graph
	WLSSPI_0026 WLSSPI-15min	wasspi_wls_graph.sp	wasspi_wls_graph
	WLSSPI_0035 WLSSPI-15min	wasspi_wls_graph.sp	wasspi_wls_graph
	WLSSPI_0036 WLSSPI-15min	wasspi_wls_graph.sp	wasspi_wls_graph
JDBC Pool Waits	WLSSPI_0061 WLSSPI-05min	wasspi_wls_graph.sp	wasspi_wls_graph
	WLSSPI_0063 WLSSPI-05min	wasspi_wls_graph.sp	wasspi_wls_graph
Transaction Performance	WLSSPI_0070 WLSSPI-05min	wasspi_wls_graph.sp	wasspi_wls_graph

Table 21   Data Store for Graphs

Graph Name	Policy Logging Data	Spec File	Data StoreData Class
Transaction Rollback Percent	WLSSPI_0071 WLSSPI-05min	wasspi_wls_graph.sp	wasspi_wls_graph
Transaction Rollback Analysis	WLSSPI_0072 WLSSPI-05min	wasspi_wls_graph.sp	wasspi_wls_graph
	WLSSPI_0073 WLSSPI-05min	wasspi_wls_graph.sp	wasspi_wls_graph
	WLSSPI_0074 WLSSPI-05min	wasspi_wls_graph.sp	wasspi_wls_graph
	WLSSPI_0075 WLSSPI-05min	wasspi_wls_graph.sp	wasspi_wls_graph
Transaction Performance	WLSSPI_0076 WLSSPI-05min	wasspi_wls_graph.sp	wasspi_wls_graph
	WLSSPI_0077 WLSSPI-05min	wasspi_wls_graph.sp	wasspi_wls_graph
Server Statistics	WLSSPI_0078 WLSSPI-05min	wasspi_wls_graph.sp	wasspi_wls_graph
Transaction Performance	WLSSPI_0079 WLSSPI-05min	wasspi_wls_graph.sp	wasspi_wls_graph
Cluster	WLSSPI_0080 WLSSPI-05min	wasspi_wls_graph.sp	wasspi_wls_graph
	WLSSPI_0081 WLSSPI-05min	wasspi_wls_graph.sp	wasspi_wls_graph
Security	WLSSPI_0085 WLSSPI-05min	wasspi_wls_graph.sp	wasspi_wls_graph

Table 21   Data Store for Graphs

Graph Name	Policy Logging Data	Spec File	Data StoreData Class
ThreadPool	WLSSPI_0283 WLSSPI-15min	wasspi_wls_graph.sp	wasspi_wls_graph
	WLSSPI_0284 WLSSPI-15min	wasspi_wls_graph.sp	wasspi_wls_graph
	WLSSPI_0285 WLSSPI-15min	wasspi_wls_graph.sp	wasspi_wls_graph
	WLSSPI_0286 WLSSPI-15min	wasspi_wls_graph.sp	wasspi_wls_graph
	WLSSPI_0287 WLSSPI-15min	wasspi_wls_graph.sp	wasspi_wls_graph
	WLSSPI_0288 WLSSPI-15min	wasspi_wls_graph.sp	wasspi_wls_graph

Index

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