

HP OPENVIEW

# Smart Plug-in for BEA WebLogic Server

## Release Notes

RELEASE A.03.10

This document contains information supplementary to the documentation set for the Smart Plug-in for BEA WebLogic Server (WLS-SPI), which consists of a configuration guide and a reference manual.

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## Chapter 1: ANNOUNCEMENTS

The Smart Plug-In for WebLogic Server (WLS-SPI) offers a full-featured plug-in to HP OpenView Operations for UNIX® (OVO). For a description of the WLS-SPI and an overview of how it works with OVO, please see the introductory chapter of the *HP OpenView Operations Smart Plug-in for BEA WebLogic Server Configuration Guide*.

### A.03.10

This release of WLS-SPI fixes a number of bugs and adds the following capability:

- OVOU 8.0 Support (DCE agents only, no HTTPS support at this time)
- Support for Linux AS 3.0

### A.03.00

This release of WLS-SPI fixes a number of bugs and adds the following capability:

- Configuration editor GUI to view, edit, and set configuration properties
- Automatic discovery of basic configuration properties
- Support of duplicate server names
- Support of Linux managed nodes

- JMX server connection

### **A.02.06.03**

This release of WLS-SPI fixes a number of bugs.

### **A.02.06**

This release of WLS-SPI fixes a number of bugs and adds the following capability:

- Support for WebLogic Server 8.1
- Support for multiple WebLogic servers on the same node with the same name
- Many enhancements and fixes to reports in the SPI's OV Reporter integration.
- The configuration property NUM\_SERVERS is no longer needed.
- Support tool
- New configuration property: Adds the configuration property TIMEOUT which will determine how long to attempt to connect to a server before declaring that the server is down, which may be set on a server by server basis.

### **A.02.04.01**

This release of WLS-SPI fixes a number of bugs.

### **A.02.04**

This release of WLS-SPI fixes a number of bugs and adds the following capabilities:

- **New/Updated Metrics:** Metrics 15, 25, 225, 26, 226, 235, 238, 63, 263, 264, 265, 270, 78, and 278 have been updated or added.
- **New Reports:** the following two new reports are generated:
  - TOP 20 Stateful and Entity EJB Cache Utilization
  - TOP 20 Stateless, Entity, and Message-Driven EJB Pool Utilization

### **A.02.02**

This release of WLS-SPI fixes a number of bugs and adds the following capabilities:

- **WebLogic Server 7.0 Support:** The WLS-SPI now supports WebLogic Server 7.0.

## A.02.00

This release of WLS-SPI is available on the *HP OpenView Operations for UNIX Application CD-ROM 2.0*. Problems found to date have been fixed. The following capabilities are added with this release:

- **UDM Graphing:** The WLS-SPI now supports the graphing of User Defined Metrics using *OpenView Performance Manager* or *PerfView*, either of which can be separately purchased.

## DOCUMENTATION

The following manuals are included with this release and can be view or printed. They offer all the information that you need to install, configure, and use WLS-SPI.

- *HP OpenView Smart Plug-in for BEA WebLogic Server: Configuration Guide*
- *HP OpenView Smart Plug-in for BEA WebLogic Server: Reference*

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## Chapter 2: Enhancements and Fixes

### ENHANCEMENTS WITH VERSION A.03.10

CR NUMBER	DESCRIPTION
NSMbb66541	<p>Change OVPM integration to have graphs show up in GUI</p> <p><b>Background:</b> In past releases of the SPI, OVPM graphs were only available from the OVO Application bank or from alarm's operator actions.</p> <p><b>Benefits of the Enhancement:</b> Functionality/Usability</p> <p><b>Description of the Enhancement:</b> Starting with this release, when the OVPM integration package is installed, entries show up in the OVPM interface which allow a user to generate a WebLogic graph from the OVPM interface.</p> <p><b>Steps Necessary to Use/Implement the Enhancement:</b> Display the graph in OVPM against the desired node and server.</p>
	<p>OVO 8.0 Support</p> <p><b>Background:</b> Prior SPI versions worked with OVOU 6.x and 7.x only</p> <p><b>Benefits of the Enhancement:</b> Platform Support</p> <p><b>Description of the Enhancement:</b> This release drops support for OVOU 6.x and adds support for OVOU 8.0</p> <p><b>Steps Necessary to Use/Implement the Enhancement:</b> Install and use on an OVOU 8.0 system</p>

## FIXES WITH VERSION A.03.10

CR NUMBER	DESCRIPTION
<b>JAGaf14300</b>	<p>Incorrect pattern matching for Weblogic Log Template</p> <p><b>Problem:</b> Some WebLogic logfile entries with WebLogic Server 8.1 would not be detected and sent to the message browser.</p> <p><b>Cause:</b> A pattern matching condition was incorrectly formatted.</p> <p><b>Fix:</b> The logfile entry was fixed. The entry was changed from:</p> <pre data-bbox="443 562 1284 615">^&lt;*.file&gt;:####\&lt;&lt;*.date&gt;\&gt; \&lt;[Notice Error Alert]\&gt; \&lt;&lt;*.object&gt;\&gt; \&lt;&lt;@.node&gt;\&gt; \&lt;&lt;@.server&gt;\&gt; &lt;*.junk&gt; \&lt;&lt;#\&gt; \&lt;&lt;*.message&gt;\&gt;</pre> <p>to</p> <pre data-bbox="443 709 1284 762">^&lt;*.file&gt;:####\&lt;&lt;*.date&gt;\&gt; \&lt;[Notice Error Alert]\&gt; \&lt;&lt;*.object&gt;\&gt; \&lt;&lt;@.node&gt;\&gt; \&lt;&lt;@.server&gt;\&gt; &lt;*.junk&gt; \&lt;&lt;@\&gt; \&lt;&lt;*.message&gt;\&gt;</pre>
<b>ROSmm35309</b>	<p>Logfile alarm does not light up service map</p> <p><b>Problem:</b> When logfile messages come into the browser, sometimes the service map does not light up with the severity color.</p> <p><b>Cause:</b> The properties of the logfile service map does not match the service id in the logfile message</p> <p>The service map displays (for example):</p> <pre data-bbox="443 1098 951 1129">WLS_LOG_petstoreServer_7001_test1.hp.com</pre> <p>The message browser Service ID displays (for example):</p> <pre data-bbox="443 1224 889 1255">WLS_LOG_petstoreServer_7001_TEST1</pre> <p><b>Fix:</b> A WLS-SPI configure script was modified to use the NODE_NAME if the server address is not configured.</p>
<b>ROSmm36384</b>	<p>Status check uses name not alias, not all servers checked.</p> <p><b>Problem:</b> Using the Check WebLogic application for the HP OpenView Smart Plug-In for BEA WebLogic Server on Sun Solaris version A.03.00.00, the resulting report displays incorrect information when the WebLogic Server instances on the node have the same name and the SERVER&lt;n&gt;_ALIAS property is configured. The report shows data applicable for one instance for each like named instance rather than showing the actual data for each individual instance.</p> <p><b>Cause:</b> A flaw in the script</p> <p><b>Fix:</b> The report resulting from the Check WebLogic application correctly references and displays the name and information corresponding to the server name configured in SERVER&lt;n&gt;_ALIAS for all identically named WebLogic instances.</p>

<p><b>ROSmm36365</b></p>	<p>Verify detects problem with DSI2DDF version incorrectly on UNIX systems</p> <p><b>Problem:</b> The following error occurs when running the Verify application:</p> <p>HP OpenView Smart Plug-In for WebLogic Application Server for (any UNIX) A.03.00.00 (03/17/04)"</p> <p>/var/lpp/OV/OpC/monitor/ddfcomp (A.01.20.00) should be &gt;A.01.22 /var/lpp/OV/OpC/monitor/ddfcomp_coda (A.01.20.00) should be &gt;A.01.22 /var/lpp/OV/OpC/monitor/ddflog (A.01.20.00) should be &gt;A.01.22 /var/lpp/OV/OpC/monitor/ddflog_coda (A.01.20.00) should be &gt;A.01.22 /var/lpp/OV/OpC/monitor/ddfutil (A.01.20.00) should be &gt;A.01.22</p> <p><b>Cause:</b> The script was looking for a newer version.</p> <p><b>Fix:</b> The script looks for the correct version depending on the platform.</p>
<p><b>NSMbb66801</b></p>	<p>WLSSPI View Graph application fails with incorrect parameter error</p> <p><b>Problem:</b> When running the application View Graphs, it opens the Netscape web browser and tries to load the graph but fails with error in the web browser saying "The parameter is incorrect".</p> <p><b>Cause:</b> An incorrect file was being referenced.</p> <p><b>Fix:</b> The filename was changed.</p>
<p><b>NSMbb70542</b></p>	<p>Locale problems with metric values</p> <p><b>Problem:</b> Customer is seeing errors from opcmon due to metric values that look like "GBL-WAS-WLSSPI_0005=41,82" The system is located in France. The number looks like a French locale number. However, the Windows system is running a US English locale.</p> <p><b>Cause:</b> An incorrect API was being called.</p> <p><b>Fix:</b> A correct I18N enabled API is now being used.</p>
<p><b>NSMbb71260</b></p>	<p>Collector should handle unmapped strings more gracefully</p> <p><b>Problem:</b> A udm can contain an AttributeValueMapping element to map strings to numerics:</p> <pre> &lt;AttributeValueMapping&gt;   &lt;Map from="Running" to="1"&gt;&lt;/Map&gt;   &lt;Map from="Shutdown Pending" to="2"&gt;&lt;/Map&gt;   &lt;Map from="Shutdown In Progress" to="3"&gt;&lt;/Map&gt;   &lt;Map from="Suspended" to="4"&gt;&lt;/Map&gt;   &lt;Map from="Unknown" to="5"&gt;&lt;/Map&gt; &lt;/AttributeValueMapping&gt; </pre> <p>If no match is found a null pointer exception is written to stdout:</p>

	<p>ava.lang.NullPointerException at  com.hp.openview.wasspi.Metric.publish(Metric.java:808)  at com.hp.openview.wasspi.collector.JSpiCola.getData  (JSpiCola.java:496)  at com.hp.openview.wasspi.collector.JSpiCola.main  (JSpiCola.java:577)  Exception in thread "main"</p> <p>This should be handled more gracefully.</p> <p><b>Cause:</b> Coding error</p> <p><b>Fix:</b> If a string is not found in the metric definition map table, a default map value of -1 is assigned and error is logged to the errorlog.</p>
<p><b>ROSmm36371</b></p>	<p>WebLogic SPI does not run discovery/config on Linux without ksh</p> <p><b>Problem:</b> The discovery and config features of the WebLogic SPI requires ksh to be installed on Linux. ksh is not installed on Linux systems by default.</p> <p><b>Cause:</b> The situation was not anticipated.</p> <p><b>Fix:</b> Updated /AppSrvSPI/lib/ksh_shell to include a test for Linux that has all scripts on Linux run /bin/sh</p>
<p><b>ROSmm36162</b></p>	<p>Host name problem in service map</p> <p><b>Problem:</b> The host name used in the service map is a short name and that used in the messages sent by the SPI is fully qualified host name. As a result, the service map does not respond to messages sent by the SPI.</p> <p><b>Cause:</b> Discovery uses java.net.InetAddress class to get a fully qualified host name given a host name. In this particular system, this call returns the short host name instead of the fully qualified host name.</p> <p><b>Fix:</b> The fix is to use the value of the NODE_NAME.</p>
<p><b>NSMbb67011</b></p>	<p>When aliasing, ASCII reporting may report on the wrong server.</p> <p><b>Problem:</b> When aliasing is used to distinguish servers with identical NAME properties, ASCII reporting may report data for the wrong server depending on the SiteConfig settings. For example, when the collector is invoked with the command options:</p> <pre>-r -m 25 -i examplesServer</pre> <p>and SiteConfig:</p> <pre>NUM_SERVERS=2 SERVER1_HOME=C:/bea_6_1/wlserver6.1 SERVER1_LOGIN=system SERVER1_PASSWORD=openview SERVER1_NAME=examplesServer SERVER1_PORT=7001 SERVER2_ADDRESS=test1</pre>

	<pre>SERVER2_HOME=C:/bea_6_1/wlserver6.1 SERVER2_LOGIN=system SERVER2_PASSWORD=WebLogic SERVER2_ALIAS=examplesServer61_test1 SERVER2_NAME=examplesServer SERVER2_PORT=7001</pre> <p>the resulting ASCII report gets data from the alias server and calls it examplesServer.</p> <p><b>Cause:</b> Logic error</p> <p><b>Fix:</b> This is only an ASCII reporting issue (-r option). The collector now looks for the non alias server if the name is mapped to multiple servers.</p>
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### ENHANCEMENTS WITH VERSION A.03.00

CR NUMBER	DESCRIPTION
	<p>Added support for Linux, and HPUX 11.23</p> <p><b>Description of the Enhancement:</b> The SPI now fully supports running the WLS-SPI on Red Hat Advanced Server 2.1 Linux and HPUX 11.23 systems. When OVO is managing these platforms, the SPI may be deployed so that alarms will be generated, OV-Reporter and OV-PM integration will be available, WLS log file monitoring will be done, and OVO applications can be run.</p> <p><b>Steps Necessary to Use/Implement the Enhancement:</b></p> <ol style="list-style-type: none"> <li>1) Install the new version on the management server following the steps for installing or upgrading the SPI in the <i>Configuration Guide</i>.</li> <li>2) Configure the SPI and deploy to the Linux or HPUX 11.23 nodes as you would any other node.</li> </ol>
	<p>Configuration Editor</p> <p><b>Background:</b> The SPI's configuration is in a file that had to be edited manually with a text editor. The syntax of the file has to be followed exactly, and there has been confusion about how global, server, and group properties interact.</p> <p><b>Benefits of the Enhancement:</b> The configuration editor eliminates the need for the user to understand the syntax of the configuration file and abstracts the layers of properties in a way that is easier to understand.</p> <p><b>Description of the Enhancement:</b> The configuration editor is a Graphical User Interface that the user runs as an OVO application. The user enters or edits the configuration values in a hierarchical format that is more understandable. The properties for a certain server or group are visible while all other non-pertinent information can be hidden. The effects of all global properties can be seen.</p> <p><b>Steps Necessary to Use/Implement the Enhancement:</b></p> <p>After installing the new version of the SPI on the management server, run the "Configure SPI" application. The new configuration editor will appear. Detailed instructions are in the <i>Configuration Guide</i>.</p>

	<p>Automatic discovery of basic configuration properties</p> <p><b>Background:</b> The SPI's configuration is in a file that has had to be edited manually with a text editor. This syntax of the file has to be followed exactly, and there has been confusion about how global, server, and group properties interact, and about what information must be set.</p> <p><b>Benefits of the Enhancement:</b> All of the properties necessary for the SPI to perform its basic functions will be configured automatically with only minimal information necessary from the user.</p> <p><b>Description of the Enhancement:</b> This enhancement is an application and set of underlying functions that will attempt to automatically configure all of the application servers that are running on the specified OVO managed node. The user just runs the application, supplies any passwords needed to access the application server, and after a few minutes of discovery, the servers are automatically configured for the SPI to perform all of its basic functionality.</p> <p><b>Steps Necessary to Use/Implement the Enhancement:</b></p> <p>After installing the new version of the SPI on the management server, follow the steps in chapter 3, "Configuring the WLS-SPI" in the <i>Configuration Guide</i>.</p>
	<p>Support of duplicate server names</p> <p><b>Background:</b> The SPI could not support multiple WebLogic servers with the same server name on the same managed node, regardless of domain. This was due to structural limitations in various components of the SPI.</p> <p><b>Benefits of the Enhancement:</b> If there is more than one server with the same name on a managed node, the SPI can now monitor all of those servers.</p> <p><b>Description of the Enhancement:</b> The SPI has been enhanced so that it can support more than one server with the same server name on the same managed node. Also, if a node is being used as a proxy for remote monitoring of application servers, it can monitor servers on different remote nodes with the same name where with previous versions, it could not.</p> <p><b>Steps Necessary to Use/Implement the Enhancement:</b></p> <p>After installing or upgrading the SPI on the management server, run the "Configure SPI" application and specify the servers. Or, run the "Discover" application and let the SPI find all of the servers (following the instructions in chapter 3 of the <i>Configuration Guide</i>).</p>



	<p>Generic JMX monitoring</p> <p><b>Background:</b> The SPI could only monitor metrics from WebLogic Server applications. But, some customers have other application servers or JMX compliant applications that they would like to monitor with OVO.</p> <p><b>Benefits of the Enhancement:</b> Any JMX compliant application or application server may be monitored with the <i>Smart Plug-In for WebLogic Server</i>.</p> <p><b>Description of the Enhancement:</b> This enhancement consists of an RMI connector that the user installs into the application or server to which the SPI collector can connect; improvements to the collector to support those connection; and supporting configuration to define the connection. Together these allow the SPI to connect to any arbitrary JMX compliant application and gather MBean values that the application exposes.</p> <p><b>Steps Necessary to Use/Implement the Enhancement:</b></p> <ol style="list-style-type: none"> <li>1) Install the new version on the management server following the steps for installing or upgrading the SPI in the <i>Configuration Guide</i>.</li> <li>2) Install the provided JMX connector into the application server to be monitored following the instructions in Appendix D, "Installing the JMX Connector," in the <i>Configuration Guide</i>.</li> <li>3) Run the "Configure SPI" application and add the application server its properties (also specified in Appendix D).</li> <li>4) Create user defined metrics to access MBean information in the application or server and templates to access the new metrics. Follow all of the steps in chapter 6 in the <i>Configuration Guide</i>.</li> </ol>
	<p>UDM Deployment</p> <p><b>Background:</b> The SPI has always had a capability to allow customers to define and create their own metrics to access information not already defined in the SPI. These "User Defined Metrics" are defined in an XML file that had to be manually copied to every node from which the new metrics were to be gathered.</p> <p><b>Benefits of the Enhancement:</b> User Defined Metrics can now be defined in a single XML file on the management server.</p> <p><b>Description of the Enhancement:</b> The SPI now has an OVO application which will take the UDM XML file that is stored on the OVO management server and automatically copy it to the appropriate place on each of the specified OVO managed nodes.</p> <p><b>Steps Necessary to Use/Implement the Enhancement:</b></p> <ol style="list-style-type: none"> <li>1) After installing or upgrading the SPI on the management server, deploy commands, actions, and monitors to all managed nodes.</li> <li>2) Edit and save the UDM XML file on the management server.</li> <li>3) Run the "Deploy UDM" application.</li> </ol>

	<p>Performance improvements</p> <p><b>Background:</b> In some circumstances, the WLS-SPI data collector will take a long time to run. It had been running opcmn once for each metric data value it was collecting, and some runs of the collector would collect a very large number of metric values.</p> <p><b>Benefits of the Enhancement:</b> The collector will run faster and take fewer system resources.</p> <p><b>Description of the Enhancement:</b> The WLS-SPI data collector now runs a single process which will deliver multiple metric values to OVO.</p> <p><b>Steps Necessary to Use/Implement the Enhancement:</b></p> <p style="padding-left: 40px;">After installing the new version of the SPI on the management server, deploy actions, commands, and monitors to all of the nodes running the SPI.</p>
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#### FIXES WITH VERSION A.03.00

CR NUMBER	DESCRIPTION
NSMbb63326	<p>Metric 15 inconsistent</p> <p><b>Problem:</b> The definition of metric 15 is inconsistent with the template definitions. The metric was defined as the number of restarts while the templates were expecting a maximum percentage.</p> <p><b>Cause:</b> Inconsistency.</p> <p><b>Fix:</b> The metric was redefined to represent the percentage of the maximum restarts configured in the WebLogic Server configuration. The templates conditions were changed to be more useful relative to the default maximum. The new conditions are critical at 100%, major at 80% and warning at 50%</p>
ROSmm34138 NSMbb64954	<p>Metrics removed</p> <p><b>Problem:</b> It has been discovered that the MBean values for a number of EJB metrics are incorrect in WebLogic Server.</p> <p><b>Cause:</b> WebLogic Server internal problem.</p> <p><b>Fix:</b> Removed metrics 220, 221, 222, 227-235.</p>
NSMbb63200	<p>WebLogic logfile rotation not properly monitored</p> <p><b>Problem:</b> When the WLS-SPI log file fills, the WLS-SPI looks at the archived log file.</p> <p><b>Cause:</b> Problem with script.</p> <p><b>Fix:</b> Script now reads most current log file instead of archived log file.</p>

<p><b>ROSmm34772</b></p>	<p>wasspi_wls_lib.pl creates illegal DATASOURCE names for MWA DSI</p> <p><b>Problem:</b> WLS-SPI creates datasource files that do not follow MeasureWare naming conventions.</p> <p><b>Cause:</b> MeasureWare requires the name of a datasource file to start with an alphabetic character.</p> <p><b>Fix:</b> Add “A_” to the front of any datasource file beginning with a non-alphabetic character.</p>
<p><b>NSMbb61969</b></p>	<p>Strange Uptime value 166% for Server Availability</p> <p><b>Problem:</b> Questionable statistics (uptime, downtime, and no data – percentages) provided in single-system reports.</p> <p><b>Cause:</b> Problem was fixed for all and group reports, but not for single-system reports. Problem is caused if the measurement interval is changed.</p> <p><b>Fix:</b> New templates created to show uptime, downtime, and number of measurements used to calculate the percentage.</p>
<p><b>ROSmm34083</b></p>	<p>Version completion doesn't get SP</p> <p><b>Problem:</b> SP version of the WebLogic Server is not set by the Config WLSSPI application if it is not set on the management server. Metrics may be gathered for the wrong version of the WebLogic Server.</p> <p><b>Cause:</b> The script relies on the master SiteConfig file for the WebLogic Server version. If not set, the version is only set to the major WebLogic Server version, but does not set the SP version.</p> <p><b>Fix:</b> Script gets the SP version of the WebLogic Server, if it exists.</p>
<p><b>ROSmm35172</b> <b>NSMbb65451</b></p>	<p>Logfile grows and grows, never ending</p> <p><b>Problem:</b> The WLS-SPI log file can grow to a large size.</p> <p><b>Cause:</b> Checking the log file size only occurs when the WLS-SPI writes to the log file.</p> <p><b>Fix:</b> The WLS-SPI checks the log file size more frequently and the default maximum size of the log file is set to 2 MB.</p>
<p><b>ROSmm34049</b></p>	<p>Graph definition files do not conform to OVPM naming requirements</p> <p><b>Problem:</b> OVPM does not recognize the WLS-SPI's graph definition files.</p> <p><b>Cause:</b> The WLS-SPI's graph definition files do not follow OVPM naming conventions.</p> <p><b>Fix:</b> The graph definition files have been modified to follow OVPM naming conventions.</p>

<p><b>ROSmm26022</b></p>	<p>No opcmsg template deployed for WLSSPI</p> <p><b>Problem:</b> WLS-SPI opc messages are not sent to the message browser if no opcmsg template is deployed to the node.</p> <p><b>Cause:</b> No opcmsg template is deployed by WLS-SPI.</p> <p><b>Fix:</b> WLS-SPI deploys an opcmsg template.</p>
<p><b>JAGae96414</b></p>	<p>Weblogic SPI 02.06.01 sends messages to non existing message group</p> <p><b>Problem:</b> Messages sent by a script are not logged.</p> <p><b>Cause:</b> The script sends messages to an undefined message group.</p> <p><b>Fix:</b> The script has been changed to use a defined message group.</p>
<p><b>NSMbb65792</b></p>	<p>Getting false server down alarms</p> <p><b>Problem:</b> When running metrics for the first time, receiving “Unable to contact server &lt;server&gt;” message.</p> <p><b>Cause:</b> Connection timed out.</p> <p><b>Fix:</b> Increase TIMEOUT property default to two minutes.</p>
<p><b>JAGae68979</b></p>	<p>WLSSPI objects are sent to the browser delimited by single quotes</p> <p><b>Problem:</b> WLS-SPI objects are delimited by single quotation marks which become part of the object name is used by Service Desk.</p> <p><b>Cause:</b> The collector does not interpret spaces in a name, therefore an object name that contains a space must be enclosed in single quotation marks.</p> <p><b>Fix:</b> Incorporate the single quotation marks at the template level, not the collector level. The collector still sees the single quotation marks, but they are not configured in the object.</p>
<p><b>JAGae90148</b></p>	<p>Weblogic 2.04 Logfile/config.xml doesn't exist</p> <p><b>Problem:</b> The following error message is received: Logfile/config.xml doesn't exist. Treating as empty. (OpC30-108)</p> <p><b>Cause:</b> Invalid file location saved to the SPIConfigCfgFile file.</p> <p><b>Fix:</b> A script checks the validity of the files in SPIConfigCfgFile. File names are written to SPIConfigCfgFile if the file exists.</p>

<b>JAGae73584</b>	<p>Remove WebLogic SPI requirement that servernames be unique on a host</p> <p><b>Problem:</b> The WLS-SPI cannot be used in an environment if servers have the same names.</p> <p><b>Cause:</b> The WLS-SPI does not support duplicate server names.</p> <p><b>Fix:</b> Duplicate server names are now supported.</p>
<b>ROSm34606</b>	<p>“Element type &lt;name&gt; must be declared” errors running ascii reports</p> <p><b>Problem:</b> Problems collecting metric 238.</p> <p><b>Cause:</b> xsl and xml files are written to the tmp directory to avoid issues some scripts have with curly braces in the path names.</p> <p><b>Fix:</b> Create customized scripts so that curly braces are acceptable in path names and therefore do not need to write to the tmp directory.</p>
<b>JAGaf09476</b>	<p>Request Weblogic SPI reports all able to handle non-default interval</p> <p><b>Problem:</b> Data collections adding too much overhead to already overloaded systems.</p> <p><b>Cause:</b> Default collection interval is five minutes</p> <p><b>Fix:</b> Provide 15 minute interval reports.</p>
<b>NSMbb62277</b>	<p>Exception running ascii report without the -i option on downed server</p> <p><b>Problem:</b> Exception thrown if ASCII reports run without -i option.</p> <p><b>Cause:</b> One or more application server is not available</p> <p><b>Fix:</b> Send the error message that the server is not available when an application server cannot be contacted rather than throwing an exception.</p>
<b>ROSm31860</b>	<p><b>Problem:</b> prev function of the Formula element is not documented.</p> <p><b>Fix:</b> prev function has been added to the configuration guide.</p>
<b>ROSm31109</b>	<p>SINK entry in OVTrace.tcf has type in path</p> <p><b>Problem:</b> SINK entry missing leading “/.”</p> <p><b>Fix:</b> Add leading “/” to file name in SINK entry.</p>

<b>ROSmm26008</b>	<p>InvalidCalculatedMetricDefinitionException being reported</p> <p><b>Problem:</b> Metrics fail to deliver data.</p> <p><b>Cause:</b> If, while a calculation is being performed, certaom errors occur, subsequent metrics may report InvalidCalculatedMetricDefinitionException. This is a false exception resulting from the math parser being left in an intermediate state when the original error occurred.</p> <p><b>Fix:</b> Added a reset method to the to restore it to a start state.</p>
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### ENHANCEMENTS WITH VERSION A.02.06

CR NUMBER	DESCRIPTION
	<p>WebLogic Server 8.1 support</p> <p><b>Background:</b> The SPI has only supported WebLogic 6.x through 7.x.</p> <p><b>Benefits of the Enhancement:</b> The SPI can now monitor WebLogic Server 8.1</p> <p><b>Description of the Enhancement:</b> The WebLogic Server SPI now supports WebLogic Server 8.1.</p> <p><b>Steps Necessary to Use/Implement the Enhancement:</b></p> <ol style="list-style-type: none"> <li>4) Drop any managed nodes that contain WebLogic Server 8.1 servers into the WebLogic 8.1 node group.</li> <li>5) Deploy templates to the managed node.</li> </ol>
<b>JAGae75744</b>	<p>Multiple servers with same name</p> <p><b>Background:</b> Previous versions of the SPI could not manage more than one server on a single managed node with the same server name.</p> <p><b>Benefits of the Enhancement:</b> More capability.</p> <p><b>Description Of Enhancement:</b> The WebLogic Server SPI now supports multiple WebLogic servers with the same server name being monitored on the same managed node.</p> <p><b>Steps Necessary to Use/Implement the Enhancement:</b></p> <ol style="list-style-type: none"> <li>1) Run the configure SPI application</li> <li>2) For servers that has the same name on the same node, add the property <code>SERVERn_ALIAS=alias</code> where alias is a name, unique among the server names and aliases to the managed node, by which the server can be uniquely identified.</li> </ol> <p>Continue configuration as usual</p>

	<p>Reporter Integration Enhancements</p> <p><b>Background:</b> Most of the reports in the SPI's OV Reporter integration had a number of readability problems. Some of the reports had missing elements.</p> <p><b>Benefits of the Enhancement:</b> Improved reports</p> <p><b>Description Of Enhancement:</b> There were enhancements and fixes to virtually all of the reports in the SPI's OV Reporter integration.</p> <p><b>Steps Necessary to Use/Implement the Enhancement:</b></p> <ol style="list-style-type: none"> <li>1) Insert the OV Reporter integration CD in the Windows system on which OV Reporter is installed.</li> <li>2) Run the SPI's OV Reporter integration. This will remove the old integration.</li> <li>3) Run the SPI's OV Reporter integration again, this will install the SPI's new reports into OV Reporter.</li> </ol>
	<p>The configuration property NUM_SERVERS is no longer necessary.</p> <p><b>Background:</b> Earlier versions of the SPI required that the administrator specify the number of servers on each managed node by specifying the NUM_SERVERS property. This property was commonly forgotten during initial configuration, or when a server was added to a node.</p> <p><b>Benefits of the Enhancement:</b> Usability</p> <p><b>Description Of Enhancement:</b> It is no longer necessary to specify NUM_SERVERS in the SPI's configuration. The SPI will calculate the number of servers that are listed in the configuration for itself. If the NUM_SERVERS property is specified, it will be ignored.</p> <p><b>Steps Necessary to Use/Implement the Enhancement:</b> None</p>

	<p>Added a new application called "Gather Info"</p> <p><b>Background:</b> Prior to this version of the WebLogic SPI, gathering information when a problem occurred was quite difficult and error prone. With this new release, this process is made much easier.</p> <p><b>Benefits of the Enhancement:</b> Functionality</p> <p><b>Description of the Enhancement:</b> The "Gather Info" application allows the OVO administrator to collect data to be used by your HP support representative to accurately diagnose and troubleshoot problems encountered by users of the SPI.</p> <p><b>Steps Necessary to Use/Implement the Enhancement:</b></p> <ol style="list-style-type: none"> <li>1) At the OVO console, select the node in the Node Bank window</li> <li>2) From the Window menu, select Application Bank</li> <li>3) If the selected node is a Windows node From the Application Bank window select WLSSPI-&gt;NT WLSSPI Admin and double-click "Gather Info" If the selected node is a Unix node From the Application Bank window select WLSSPI-&gt;WLSSPI Admin and double-click "Gather Info"</li> <li>4) The application launches a script, which executes some commands on the managed node and also collects log and trace files.</li> </ol>
<p><b>ROSmm29751</b></p>	<p>Add TIMEOUT configuration property</p> <p><b>Background:</b> The collector gets its information from the application server by making a JMX connection to the server and requesting the information pertinent to the metric. If the application server hangs or takes too long to respond after the connection is made but before the data has been retrieved, then the collector will hang.</p> <p><b>Benefits of the Enhancement:</b> The collector will not hang if the application server hangs, but will return an appropriate value or error.</p> <p><b>Description of the Enhancement:</b> A TIMEOUT configuration property has been added which specifies how long the collector will attempt to connect to a server before declaring that the server is down. This property is customizable on a server-by-server basis.</p> <p><b>Steps Necessary to Use/Implement the Enhancement:</b> Run the Configuration application and specify the TIMEOUT property in the SPI configuration file.</p> <p>The property may be used two ways:</p> <pre>TIMEOUT = 30</pre> <p>or</p> <pre>SERVER1_TIMEOUT = 30</pre> <p>The former is a default value for all servers, the latter only to SERVER1. The value is the number of seconds to attempt to connect.</p>



### FIXES WITH VERSION A.02.06.03

CR NUMBER	DESCRIPTION
<p><b>ROSmm32775</b></p>	<p>Template upload may fail on VPO 6</p> <p><b>Problem:</b> When the SPI is being installed on a VPO 6 management server, errors may occur with messages like:</p> <pre>+ parsing data file "/var/opt/OV/share/tmp/OpC_appl/wasspi/wls/wls_set/C/MSGGROUPS/wls _msggroups.dat" + uploading message groups     WLSSPI     WebLogic + parsing data file "/var/opt/OV/share/tmp/OpC_appl/wasspi/wls/wls_set/C/TEMPLATES/LOG FILE/wls_logfile.dat" line 116 "SUPP_DUPL_IDENT_OUTPUT_MSG": MsgCondition or 'SUPPRESSCONDITIONS' expected. (OpC20-217) line 136 "SUPP_DUPL_IDENT_OUTPUT_MSG": MsgCondition or 'SUPPRESSCONDITIONS' expected. (OpC20-217) line 168 "SUPP_DUPL_IDENT_OUTPUT_MSG": MsgCondition or 'SUPPRESSCONDITIONS' expected. (OpC20-217) line 194 "SUPP_DUPL_IDENT_OUTPUT_MSG": MsgCondition or 'SUPPRESSCONDITIONS' expected. (OpC20-217) line 231 "SUPP_DUPL_IDENT_OUTPUT_MSG": MsgCondition or 'SUPPRESSCONDITIONS' expected. (OpC20-217)</pre> <p><b>Cause:</b> The offending lines in the template upload file have carriage return characters at the end of the lines.</p> <p><b>Fix:</b> The carriage return characters were removed from the source.</p>
<p><b>ROSmm32130</b></p>	<p>SPI configuration fails on Windows nodes</p> <p><b>Problem:</b> The SPI configuration application fails on all Windows managed nodes. The application will begin to execute then prematurely stop executing. There may be an error that it cannot contact the WebLogic server.</p> <p><b>Cause:</b> The name of the SPI's collector program is incorrectly specified in the configuration application.</p> <p><b>Fix:</b> The configuration application was corrected to specify the correct file name.</p>
<p><b>ROSmm32188</b></p>	<p>Certain SPI error messages not displayed</p> <p><b>Problem:</b> Certain error messages, including certain error messages from the configuration application were never displayed in the browser.</p> <p><b>Cause:</b> The opcmsg template conditions for the SPI error messages did not match certain messages.</p> <p><b>Fix:</b> The opcmsg template was fixed to properly match all messages from the SPI.</p>

<p><b>ROSmm32205</b></p>	<p>Some SPI configuration errors not detected</p> <p><b>Problem:</b> Some errors in the SPI configuration application were not detected. The application would exit normally, but the configuration would not have completed successfully.</p> <p><b>Cause:</b> The error messages from the configuration running on the remote node were being incorrectly redirected, and not detected on the management server.</p> <p><b>Fix:</b> The management server configuration application was fixed so that these error messages were properly trapped and reported.</p>
<p><b>ROSmm32190</b></p>	<p>View Graphs application fails</p> <p><b>Problem:</b> Run WLSSPI View Graphs application and Netscape is started. Initially there is no graph. When the “draw” button is pressed, the following error is returned:</p> <p>The following errors were encountered while generating the graph: Unrecognized key word at parameter 15 "PARAMETER2:" (err61)</p> <p><b>Cause:</b> There was a syntax error in the graph template.</p> <p><b>Fix:</b> Fixed the syntax error.</p>
<p><b>JAGae85946</b></p>	<p>WebLogic Log messages lost</p> <p><b>Problem:</b> Messages from the WebLogic logs will be lost if the WebLogic log file is cleared and new messages are appended to the cleared file.</p> <p><b>Cause:</b> The logic of the SPI's WebLogic logfile processor did not handle the case where a single logfile is cleared and reused. It keeps a pointer to the end of the file and processes new information that is added after that point, then resets the pointer. If the file is cleared and new entries are added, it would not look at any entries until the size of the file was bigger than it was before it was cleared.</p> <p><b>Fix:</b> The logic has been fixed so that if a file shrinks, the file pointer is set to the beginning of the file, so all new entries after the file was cleared will be processed.</p>

## FIXES WITH VERSION A.02.06

CR NUMBER	DESCRIPTION
<b>ROSmm27973</b>	<p>Collector CLASSPATH problems on some Windows nodes</p> <p><b>Problem:</b> The following error is seen when running the collector on Windows nodes:</p> <p>Exception in thread "main" java.lang.NoClassDefFoundError</p> <p><b>Cause:</b> Spaces in the file or path name in the Java CLASSPATH caused the command line parser to truncate the path.</p> <p><b>Fix:</b> Quote the Java CLASSPATH.</p>
<b>ROSmm27441</b>	<p>Incorrect dependency on DSI2DDF</p> <p><b>Problem:</b> The datasource creation and data feeds having occasional errors.</p> <p><b>Cause:</b> The wrong version of DSI2DDF was specified in the dependency so sometimes an old version was being used.</p> <p><b>Fix:</b> The correct version of DSI2DDF was specified in the package dependency tables.</p>
<b>ROSmm27335</b>	<p>Improper support of WLS 6.0 metrics</p> <p><b>Problem:</b> SPI could try to collect metrics from a WebLogic 6.0 server, which would fail.</p> <p><b>Cause:</b> The SPI is not supported on WebLogic 6.1 without a service pack. The xml 6.1 metric definitions were never updated to reflect this.</p> <p><b>Fix:</b> Updated the metric definitions so that the 6.x metrics work with 6.1 and later only.</p>
<b>ROSmm30991</b>	<p>Metrics 90 and 91 failed with WLS 7.02</p> <p><b>Problem:</b> Metrics 90 and 91 failed with WLS 7.02</p> <p><b>Cause:</b> The metric definitions for metrics 90 and 91 incorrectly limited those metrics to WebLogic 7.0</p> <p><b>Fix:</b> Fixed the metric definitions so that metrics 90 and 91 work for WebLogic version 7.0 and above</p>

<p><b>ROSmm30962</b></p>	<p>Improper message when getting a security exception</p> <p><b>Problem:</b> The error message:</p> <p>WASSPI-7 Unable to contact server at url=, port=.</p> <p>Occurs when there is an authentication failure.</p> <p><b>Cause:</b> The collector did not distinguish between an authentication failure and cases where the collector did not respond at all.</p> <p><b>Fix:</b> Update the collector and templates so that a more informative message is displayed.</p>
<p><b>ROSmm30950</b></p>	<p>Incorrect configuration when App Server not running</p> <p><b>Problem:</b> When the WebLogic servers are properly running when the SPI's configuration application is run, the SPI will determine and record for its use what WebLogic logfiles it should monitor. If a specified WebLogic server is not running, the configuration application will record incorrect file names.</p> <p><b>Cause:</b> The configuration logic incorrectly configured the WebLogic log files that it would monitor if it could not connect to the WebLogic server.</p> <p><b>Fix:</b> The configuration application was fixed so that it would not configure the logfiles to monitor if it could not connect to the WebLogic server.</p>
<p><b>ROSmm30652</b></p>	<p>Port number display show tenths of a port</p> <p><b>Problem:</b> The WebLogic status application displayed the port on which the server was listening in tenths, e.g. Port 7001.0</p> <p><b>Cause:</b> The port number is treated as a floating point number.</p> <p><b>Fix:</b> Strip the decimal part from the port number.</p>
<p><b>ROSmm30911</b></p>	<p>Improved comments in sample SiteConfig</p> <p><b>Problem:</b> The default SiteConfig file's comments were out of date and no longer accurate.</p> <p><b>Cause:</b> The definitions of various properties in the default SiteConfig file have changed and new properties have been added to newer versions of the product, but the comments have not been updated.</p> <p><b>Fix:</b> Updated the comments in the default SiteConfig file to reflect the latest version of the product.</p>

<p><b>ROSmm27451</b></p>	<p>Incorrect paths to WLS config files</p> <p><b>Problem:</b> The SPI monitors the WebLogic Server config files and notifies the operator when changes are made to the files. On Windows nodes, errors were being generated that the file "config.xml" does not exist.</p> <p><b>Cause:</b> The configuration application determines what the WebLogic configuration files are and stores them in a data file for monitoring. It was computing the incorrect path for the file on Windows nodes.</p> <p><b>Fix:</b> The configuration application was fixed to specify the correct path.</p>
<p><b>ROSmm28042</b></p>	<p>Exception when spaces after NUM_SERVERS in SiteConfig</p> <p><b>Problem:</b> The collector generated a NumberFormatException.</p> <p><b>Cause:</b> When there is a space after the number of servers in the SiteConfig file NUM_SERVERS property, the parser incorrectly tries to parse any spaces after the number as part of the number.</p> <p><b>Fix:</b> The collector's parser was fixed to ignore trailing spaces. Also, the NUM_SERVERS property is no longer needed in the master SiteConfig and is automatically computed and inserted in the local SiteConfig without trailing spaces.</p>
<p><b>ROSmm28074</b></p>	<p>Performance problems with Embedded Performance Component</p> <p><b>Problem:</b> The Embedded Performance Component can have performance problems when processing the SPI's Reporter data.</p> <p><b>Cause:</b> There is a SORTID field in the OV Reporter data-source which is set to a unique value. This field is used as a grouping variable and causes a very large number of cells in an in-memory table.</p> <p><b>Fix:</b> Set the SORTID field to a fixed value.</p>
<p><b>ROSmm28133</b></p>	<p>Integer version in SiteConfig causes failure</p> <p><b>Problem:</b> If the SERVERn_VERSION is set to an integer, <i>e.g.</i> SERVER1_VERSION=7, the version is not matched and collection for this server will not properly happen.</p> <p><b>Cause:</b> The collector only recognizes version specifications of the form 7.0.</p> <p><b>Fix:</b> Modify the collector to recognize 7 as meaning 7.0.</p>

<p><b>ROSmm28137</b></p>	<p>No output when using collector command line -x print=on and server is down.</p> <p><b>Problem:</b> When using the collector with the command line option -x print=on and the collector is down, the collector exits without any output.</p> <p><b>Cause:</b> When the collector cannot connect to the server and the -x print=on command line option is used, the logic provides for no message.</p> <p><b>Fix:</b> Modify the collector to display a message when it cannot contact the server.</p>
<p><b>ROSmm29225</b></p>	<p>Some servlet average execution time values not changing.</p> <p><b>Problem:</b> The average execution time values for some servlets are not changing in successive calls to the collector.</p> <p><b>Cause:</b> BEA reports that this is normal for certain infrastructure servlets.</p> <p><b>Fix:</b> Modify the collector to implement a multi-filtering capability and filter these infrastructure servlets in addition to the console servlets that are already being filtered.</p>
<p><b>ROSmm30715</b></p>	<p>Misleading messages in metric reports when app server is down.</p> <p><b>Problem:</b> When an application server is down or not responding, the messages displayed when a metric application is run are misleading.</p> <p><b>Cause:</b> When a metric application is run and an application server is down, the collector did not properly distinguish between the up and down servers and the messages that were display about the down server were not clear.</p> <p><b>Fix:</b> Modify the collector to improve the messages indicating that an application server is down.</p>
<p><b>ROSmm30939</b></p>	<p>Braces in path to MetricDefinitions files causes failures.</p> <p><b>Problem:</b> When there are braces in the path to the MetricDefinitions files (or UDM Definitions file), the collector fails with an error reading the MetricDefinitions file.</p> <p><b>Cause:</b> The XML handing libraries incorrectly parse file paths that contain braces.</p> <p><b>Fix:</b> Temporarily copy the MetricDefinitions files to a temp directory and read them from there.</p>

<p><b>ROSmm30948</b></p>	<p>Getting error setting up the Reporter datasource.</p> <p><b>Problem:</b> The process that creates the Reporter datasource fails with the error "WASSPI-237: wasspi_wls_configPerf: Setting up Data Source WLSSPI_RPT_METRICS."</p> <p><b>Cause:</b> A recent change to a MeasureWare process got out of sync with the SPI's tools to create the datasource.</p> <p><b>Fix:</b> Removed the leading zeros from the metric ID numbers on the config file used to setup the datasource.</p>
<p><b>ROSmm30122</b></p>	<p>Configuration problems with GROUPS in configuration.</p> <p><b>Problem:</b> Group definitions were not always used.</p> <p><b>Cause:</b> The group names were not being correctly matched due do incorrect interpretation of the name's case.</p> <p><b>Fix:</b> Made GROUP and NODE names case-insensitive.</p>
<p><b>ROSmm30098</b></p>	<p>Error message that HOME is not specified when it, in fact, was specified.</p> <p><b>Problem:</b> Configuration complained that HOME was not specified when SERVERn_HOME was specified.</p> <p><b>Cause:</b> The configuration parser was requiring that the global HOME variable be specified, regardless of whether all of the required SERVERn_HOME variables were specified.</p> <p><b>Fix:</b> Fixed parser so that either a global HOME or individual SERVERn_HOME variables may be set.</p>
<p><b>ROSmm29328</b></p>	<p>"WASSPI-203" error messages appearing</p> <p><b>Problem:</b> Occasionally, especially during configuration, the message "WASSPI-204 Error sending opcmsg" would appear.</p> <p><b>Cause:</b> When "normal" messages were being sent, an incorrect severity was being set in the opcmsg call causing the error to occur and the message to not be sent.</p> <p><b>Fix:</b> Fixed the call to opcmsg for normal messages to use the correct severity.</p>
<p><b>ROSmm31908</b></p>	<p>Start/Stop application command string parameters were lost</p> <p><b>Problem:</b> When a SERVERn_START_CMD or SERVERn_STOP_COMMAND were specified and the command had parameters, and when a USER was specified, the parameters were not passed to the command.</p> <p><b>Cause:</b> The command was parsed and executed, but the parameters were ignored.</p> <p><b>Fix:</b> The application now quotes the entire command string.</p>

#### FIXES WITH VERSION A.02.04.01

CR NUMBER	DESCRIPTION
ROSmm25689	<p>Problem with UDM graphing on NT nodes</p> <p><b>Problem:</b> The log and graphing data sources for user-defined-metrics are being put into the root directory of the drive where OVO is installed.</p> <p><b>Cause:</b> The directory where the data and log files for UDMs is undefined in the UDM configuration scripts.</p> <p><b>Fix:</b> The UDM configuration scripts were fixed so that the directory for UDM data and scripts were properly initialized.</p>
ROSmm28042	<p>Collector failed when NUM_SERVERS had trailing spaces</p> <p><b>Problem:</b> The collector was failing in with NumberFormatException rarely, but when it failed it failed every time it ran.</p> <p><b>Cause:</b> The problem occurs when there was trailing white space on the NUM_SERVERS line in the managed node's SiteConfig file. The java code was including the space when it was interpreting the number and causing an error.</p> <p><b>Fix:</b> The java code was corrected to ignore any white space at the end of the line.</p>
ROSmm29185	<p>SPI using excessive space when it first starts.</p> <p><b>Problem:</b> The SPI is using excessive space, sometimes filling the file system the first time it starts.</p> <p><b>Cause:</b> The SPI's log file processor copies entries from the WebLogic logs to an interim file in it's log directory in order to properly accumulate and process all of the correct log entries. The first time this process runs it was improperly copying all of the entries in all of the WLS log files to the interim file. The first time the processor runs it should ignore any existing messages and only begin to process any log entries created after it starts.</p> <p><b>Fix:</b> The log file processor was fixed to ignore any WebLogic Server log entries that are created before the first time it runs.</p>

#### ENHANCEMENTS WITH VERSION A.02.04

CR NUMBER	DESCRIPTION
	<p>Add metrics to monitor WebLogic Server 7.0</p> <p><b>Description Of Enhancement:</b> This version of WLS-SPI adds the following metrics to monitor WebLogic Server 7.0:</p> <p>15, 235, 238, 63, 263, 264, 265, 270, 78, and 278.</p>



	<p>Add reports generated for WebLogic Server 7.0</p> <p><b>Description Of Enhancement:</b> This version of WLS-SPI adds the following reports generated for WebLogic Server 7.0:</p> <p>TOP 20 Stateful and Entity EJB Cache Utilization TOP 20 Stateless, Entity, and Message-Driven EJB Pool Utilization</p>
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#### FIXES WITH VERSION A.02.04

CR NUMBER	DESCRIPTION
<b>ROSmm25891</b>	<p>Some metrics included in earlier versions of the WLS-SPI did not work.</p> <p><b>Problem:</b> Metrics 25, 225, 26, and 226 did not work.</p> <p><b>Cause:</b> In WebLogic Server versions 6.0 and 6.1, the WaiterTotalCount, TimeoutTotalCount, and CachedBeansCurrentCount EJBStatelessHomeRuntime mbean properties always returned 0. These mbeans were removed from WebLogic Server 7.0.</p> <p><b>Fix:</b> Metrics 25, 225, 26, and 226 were updated to not use the listed mbeans and are supported in this version of WLS-SPI.</p>
<b>Rosmm25891</b>	<p>Some metrics included in earlier versions of the WLS- SPI have been removed from version A.02.04.</p> <p><b>Problem:</b> Metrics 223 and 224 did not work.</p> <p><b>Cause:</b> In WebLogic Server versions 6.0 and 6.1, the WaiterTotalCount, TimeoutTotalCount, and CachedBeansCurrentCount EJBStatelessHomeRuntime mbean properties always returned 0. These mbeans were removed from WebLogic Server 7.0.</p> <p><b>Fix:</b> Removed metrics 223 and 224.</p>

#### ENHANCEMENTS WITH VERSION A.02.02

	<p>Added the ability to monitor WebLogic Server 7.0</p> <p><b>General Topic Area:</b> Platform Support</p> <p><b>Background:</b> BEA made changes to WebLogic Server in version 7.0 so significant that the WLS-SPI could not monitor it. Most of the functions of the SPI would fail without major changes.</p> <p><b>Description Of Enhancement:</b> This version of WLS-SPI can now monitor WebLogic Server 7.0. However, the following metrics do not work when monitoring WLS 7.0:</p> <p>10, 220, 221, 222, 223, 224, 25, 225, 26, 226, 227, 228, 229, 230, 231, 232, 233, 234, 35, 36</p>
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	<p>The following reports are not generated for WebLogic Server 7.0:</p> <p>EJB Transaction Throughput By EJB  TOP 20 EJB Transaction Rollback Percent By EJB  TOP 20 Stateless EJB Cache Utilization</p> <p><b>Steps Necessary To Use/Implement The Enhancement:</b> WLS-SPI configuration variable SERVER&lt;n&gt;_VERSION must be set to the correct version of WLS when it is version 7.0 or above. So the configuration variables for a WLS 7.0 installation might be:</p> <pre> NUM_SERVERS=1 SERVER1_HOME=/opt/bea/weblogic700 SERVER1_NAME=myserver SERVER1_PORT=7001 SERVER1_VERSION=7.0 SERVER1_LOGIN=weblogic SERVER1_PASSWORD=password </pre>
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#### FIXES WITH VERSION A.02.02

CR NUMBER	DESCRIPTION
ROSmm24702	<p>All SPI scripts fail on OVO 6 Solaris agents.</p> <p><b>Problem:</b> The SPI fails to run on OVO 6 on Solaris with the message:</p> <pre> ld.so.1: /opt/OV/contrib/perl/bin/perl: fatal: libopcp Perl.so: open failed: No such file or directory Killed </pre> <p><b>Cause:</b> The file libopcp Perl.so is missing from WLS-SPI's perl installation.</p> <p><b>Fix:</b> The missing file is now included.</p>
ROSmm24772	<p>Metric 1 fails to report when the server is down</p> <p><b>Problem:</b> The SPI fails to consistently report when WebLogic is down.</p> <p><b>Cause:</b> The order of the conditions in the WLSSPI_0001 template is incorrect.</p> <p><b>Fix:</b> The WLSSPI_0001 template has been fixed with the conditions now specified in the correct order.</p>
ROSmm24831	<p>The WLS 5 availability check fails on Windows NT agents.</p> <p><b>Problem:</b> The WLS 5 availability check fails when it is run on a Windows NT system</p> <p><b>Cause:</b> The SPI uses a Java™ tool provided by WLS to check the WLS availability. The SPI incorrectly runs Java on Windows NT when attempting to run the tool.</p> <p><b>Fix:</b> The WLS 5 availability script on Windows NT has been corrected to run Java properly.</p>

<p><b>ROSmm23695</b></p>	<p>Reporter data for a down app server is missing.</p> <p><b>Problem:</b> When an app server is down, the SPI should report metric 1 value "0" to the Reporter log file. Instead, no data is written. This does not affect the uptime calculation which is the primary purpose of the Reporter reports, but it lumps app server downtime under "No Data" in the report tables.</p> <p><b>Cause:</b> The Reporter data logging was not properly sequenced in the case when a server was down metric 2 was requested.</p> <p><b>Fix:</b> The collector source was corrected. The internal metric definitions and the OVO templates were synchronized.</p>
<p><b>ROSmm25205</b></p>	<p>Several metrics are returning no data in WLSSPI A.02.00.</p> <p><b>Problem:</b> Several metrics are returning no data in WLSSPI A.02.00. The affected metrics are:</p> <p>WebLogic 6.0 SP1 and greater: WLSSPI_0010, WLSSPI_0013, WLSSPI_0242, WLSSPI_0246, WLSSPI_0253, WLSSPI_0254, WLSSPI_0255, WLSSPI_0256, WLSSPI_0262, WLSSPI_0076, WLSSPI_0080, WLSSPI_0081</p> <p>WebLogic 6.1 only: WLSSPI_0025, WLSSPI_0225, WLSSPI_0026, WLSSPI_0226, WLSSPI_0227, WLSSPI_0228, WLSSPI_0229, WLSSPI_0230, WLSSPI_0231, WLSSPI_0232, WLSSPI_0233, WLSSPI_0234, WLSSPI_0035, WLSSPI_0036</p> <p><b>Cause:</b> Metrics that have an interval in their formula where the parameter to the interval is used previously in the formula will fail and return no value.</p> <p><b>Fix:</b> Fixed the collector program.</p>
<p><b>ROSmm25255</b></p>	<p>WebLogic log files are not being monitored in WLSSPI A.02.00</p> <p><b>Problem:</b> The WebLogic log files are not being monitored.</p> <p><b>Cause:</b> The "Configure" application is supposed to configure the SPI to monitor all of the log files that are configured in and are being used by WebLogic. The mechanism to get the files from WebLogic had a parsing error.</p> <p><b>Fix:</b> Fixed the mechanism to get the files from WebLogic.</p>

## ENHANCEMENTS WITH VERSION A.02.00

CR NUMBER	DESCRIPTION
ROSmm21137	<p>Added the ability to graph user-defined metrics (UDMs).</p> <p><b>General Topic Area:</b> Platform Support</p> <p><b>Background:</b> WLS-SPI supplies predefined metrics that generate alarms when thresholds are exceeded, and also sends the metrics to the performance agent for reporting and graphing with other tools available from HP. WLS-SPI also provides for UDMs, where the customer could define metrics and have alarms generated whenever defined thresholds were exceeded. The UDM values could not be sent to the performance agent.</p> <p><b>Description Of Enhancement:</b> This version of WLS-SPI sends data to the performance agent for later graphing.</p> <p><b>Steps Necessary To Use/Implement The Enhancement:</b> Set up user defined metrics as documented in the <i>HP OpenView Operations Smart Plug-in for BEA WebLogic Server Configuration Guide</i>.</p> <p>Run the OVO Application Bank application "UDM Graph Enable" which processes the UDM XML file defined in the first step and generates appropriate data sources for later graphing.</p> <p>Use the OVO Application Bank application "UDM Graph Disable" to stop the data feed and delete the data source and delete any data already sent to the data source.</p>

## FIXES WITH VERSION A.02.00

CR NUMBER	DESCRIPTION
ROSmm23333	<p>Installation fails when the swinstall bundle does not include management server platform.</p> <p><b>Problem:</b> When a swinstall bundle that included only files for a single agent platform different from that of the management server, there were errors reported during the swinstall installation. For example, if the bundle SPIWebLogicSol was installed because the only WebLogic Servers that were to be monitored were on Solaris nodes, but the OVO Management Server was on HP-UX, the installation would fail.</p> <p><b>Cause:</b> Certain management server files were missing from the swinstall package.</p> <p><b>Fix:</b> The missing files are now included.</p>
ROSmm22866	<p>When adding new WebLogic Servers to an existing node, the new servers' performance data is not seen by <i>OpenView Performance Agent</i>.</p> <p><b>Problem:</b> <i>OV Performance Agent</i> must be restarted before it will process the new data sources that are configured when the new WebLogic Servers are added to the SPI configuration.</p> <p><b>Fix:</b> <i>OpenView Performance Agent (MWA)</i> is restarted automatically when necessary.</p>

<p><b>ROSmm23615</b></p> <p><b>ROSmm23468</b></p>	<p>Monitoring fails when running against a patched WebLogic Server version 6.1.</p> <p><b>Problem:</b> The WebLogic Server version string for certain patched versions of WebLogic Server 6.1 do not have a format that is recognized by the SPI, or do not have the version at all. The SPI needs to know the version of WebLogic it is monitoring in order to perform correct calculations of the metrics.</p> <p><b>Fix:</b> For those patched versions of WebLogic Server that have an unrecognized format, the SPI now recognizes them. For those versions that do not have a recognizable version (<i>e.g.</i>, do not specify the version number at all), the SPI administrator can specify the WebLogic version in the SPI configuration with the key <code>SERVER&lt;n&gt;_VERSION=</code>.</p> <p>If no version is recognizable from WebLogic Server and no version is specified in the configuration file, WebLogic version 6.1 is assumed.</p>
<p><b>ROSmm22409</b></p>	<p>OV Reporter reports have no data or inadequate data</p> <p><b>Problem:</b> For customers with a large number of servers or objects, the <i>OV Reporter</i> reports have no data or inadequate data.</p> <p><b>Cause:</b> The <i>Reporter</i> data-source is configured with insufficient capacity.</p> <p><b>Fix:</b> Increased the parameter for the size of the <i>Reporter</i> data-source, which is set when it is created.</p> <p><b>User Action Required:</b> If the <i>Reporter</i> data-source has already been created with the small size and it is necessary to increase the size, the following action is required:</p> <ol style="list-style-type: none"> <li>1. Delete the following data-source log files: <ul style="list-style-type: none"> <li>UNIX: <pre> /var/opt/OV/wasspi/wls/datalog/reporter /var/opt/OV/wasspi/wls/datalog/reporter.log /var/opt/OV/wasspi/wls/datalog/reporter.log.desc </pre> </li> <li>Windows: <pre> \usr\opt\OV\wasspi\wls\datalog\reporter \usr\opt\OV\wasspi\wls\datalog\reporter.log \usr\opt\OV\wasspi\wls\datalog\reporter.log.desc </pre> </li> </ul> </li> <li>2. Run the "Config WLSSPI" application on the managed node.</li> </ol>

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## Chapter 3: Known Problems and Workarounds

- **Problem:** On a Solaris managed node, the ddflog and dsilog processes hang. The error message `WASSPI-1: Unable to create the lock file /var/opt/OV/wasspi/wls/datalog/ddflog.lck. File already exists.` is reported and running the command `ps -l` shows that the `ddflog_coda` and `ddflog` or `dsilog` processes are hung.

**Workaround:** On each Solaris managed node on which the problem occurs, do the following:

1. In the `/var/opt/OV/wasspi/wls/conf/SPIConfig` file, set the `DATA_LOGGING_EXECUTABLE_NAME` property after the `"#----- Dynamic definitions -----"` entry. `DATA_LOGGING_EXECUTABLE_NAME` explicitly sets the data logging program that is used (normally, the collector automatically determines the data logging program to use).

If you are running OVPA, set the property to the following value:

```
DATA_LOGGING_EXECUTABLE_NAME=/opt/perf/bin/dsilog
```

If you are running CODA, set the property to the following value:

```
DATA_LOGGING_EXECUTABLE_NAME=/opt/OV/bin/OpC/monitor/ddflog_coda
```

2. Kill the hung `ddflog_coda` and `ddflog` or `dsilog` processes.

Example excerpt from the `SPIConfig` file after setting the property:

```
UDM_GRAPH_CAPACITY=50000
UDM_PERF_CAPACITY=50000
#----- Dynamic definitions -----
DATA_LOGGING_ENABLED=TRUE
DATA_LOGGING_EXECUTABLE_NAME=/opt/perf/bin/dsilog
```

- **Problem:** The metrics `WLSSPI-0223` and `WLSSPI-0224` are no longer available. Refer to "Fixes with Version A.02.04" for more information. The metrics `WLSSPI-0220-WLSSPI-0222` and `WLSSPI-0227-WLSSPI-0235 0224` are no longer available. Refer to "Fixes with Version A.03.00" for more information.
- **Problem:** The "View Graphs" application does not work.

**Workaround:** On the OVPM Windows system, copy the file:

```
\Program Files\HP Openview\newconfig\WLSSPI_Graphs.txt
to:
\Program Files\HP Openview\newconfig\VPI_GraphsWLSSPI.txt
```

- **Problem:** On Linux nodes, the "Configure SPI" or "Discovery" application can fail without configuring the SPI on the managed Linux node. This happens because some of the configuration processes require `uudecode` to be present on the local node.

**Workaround:** Ensure that `uudecode` is installed on the target managed node. It is available in the `SHARUTILS` package.

- **Problem:** The "Start WebLogic" and "Stop WebLogic" applications fail on Windows nodes if the USER or SERVERn\_USER configuration property is set. The application is trying to run the "su" command, which is only available on UNIX.

**Workaround:** Do not set the USER or SERVERn\_USER property when configuring the SERVERn\_START\_CMD or SERVERn\_STOP\_CMD properties for Windows nodes.

- **Problem:** The SPI's configuration log /var/opt/OV/wasspi/wls/log/config.log on a managed node grows without being managed for size. This file is appended to whenever the SPI's configuration is run, either manually or when the discovery process finds a change that requires configure to run (such as a WebLogic server being added or removed). Unless there are frequent changes to the environment requiring reconfiguration, this should not be a problem.

**Workaround:** Manually delete the file if it gets too large.

- **Problem:** WebLogic Server SPI cannot locate and therefore is unable to monitor the WebLogic log file when WebLogic Server is not started from the HOME directory. **This is only a problem in WebLogic Server 6.0 and 6.1.**

The location and name of the WebLogic Server log file is specified in the WebLogic Administration Console in the "Logging" tab on the server configuration page. If this log file is specified with a relative path, this path is relative to the directory in which the WebLogic Server is started. The default is the WebLogic home (WL\_HOME) directory specified when the WebLogic SPI is configured. The startup scripts installed by BEA start WebLogic Server from its home directory.

No means currently exists for querying the server for its startup directory. So, if the WebLogic Server is started up in a directory other than WL\_HOME and the log file is specified as a relative path, the WLSSPI may not be able to locate and monitor the WebLogic Server log file.

**Workarounds (choose either A, B, or C):**

(A) Configure the LAUNCH\_DIR variable in the WebLogic Server SPI configuration file to define the location of the WebLogic Server startup directory. Please see Chapter 2 of the User's Guide for details.

(B) Ensure that WebLogic Server is started from the WL\_HOME directory, which is the default if you use the startup scripts provided by BEA. Also, note that the WLSSPI will not recognize a fully qualified path name for the log file. You must use a relative path for the WebLogic Server log file in order for it to be located and monitored by the WLSSPI.

*Or*

(C) In the WLS-SPI configuration file, include the fully qualified name(s) of the WebLogic Server logfile(s) you want to monitor. For multiple logfile entries, separate each logfile name with a comma.

To edit the file:

- (1) Run the **WLSSPI→WLSSPI Admin→Config WLSSPI** application to edit the file.
- (2) Insert an additional line beginning with keyword SERVER<n>\_LOGFILE as shown below, followed by the fully qualified file name:  
SERVER<n>\_LOGFILE = <path>/<file\_name\_1>,</<path>/<file\_name\_2>
- (3) Save the file and deploy to the node.

**NOTE:** This workaround is an enhancement to the syntax as documented in the *HP OpenView Operations Smart Plug-in for BEA WebLogic Server Configuration Guide*.

- **Problem:** The Web browser cannot be launched from an operator action after you have correctly configured the WLS-SPI as instructed in the “Configure the Management Server to Launch your Web Browser” task in chapter 2 of the *HP OpenView Operations Smart Plug-in for BEA WebLogic Server Configuration Guide*.

**Workaround:**

- 1 Stop and restart the agent from a user other than `root` by entering the following commands on the managed node:

```
opcagt -kill
opcagt -start
```

- 2 Run the operator action.

- **Problem:** Netscape fails to refresh graphing data. Specifically, when you use Netscape as the browser to graph your data (graphing capability included with Reporter 3.0 or higher), the browser fails to refresh when new selections are made.

For example, in the OVO console after you drag and drop a managed node onto the WLSSPI Admin application *View Graphs*, Netscape appears and displays a blank WLS-SPI graphing page where you can accept or change the following default selections:

```
Server: MyServer_1
Graph Name: Serverstat
Data Range: 7 Days (ending now)
```

By clicking Draw, you successfully generate the graph.

However, when you select a different server, let's say *MyServer\_2*, you see that the graph that appears after you click the Draw button is the same graph/data as the one you just viewed (for *MyServer\_1*).

**Workaround:**

- 1 In Netscape from the Edit menu select **Preferences→Advanced→Cache**.
- 2 In the segment labeled Document in cache is compared to document on network, select radio button **Never**.
- 3 After successfully generating the first WLS-SPI graph, for any subsequent graphs, always change a minimum of two selections to refresh the data; for example select a different server and a different graph; or select a different graph and a different date range. Any two differing selections work to clear the current graph data from the browser cache.

**Note:** The underlined text Refresh Graph Now at the bottom of the Web page does not work; when clicked, it may return the error: `the parameter is incorrect`.

- **Problem:** In version A.02.00, the SPI configuration variables `WL_HOME` and `SERVER<n>_WL_HOME` are deprecated and are replaced with the variables `HOME` and `SERVER<n>_HOME`. The original variables are still supported in this release but may not be in future releases. See chapter 2 in the *HP OpenView Operations Smart Plug-in for BEA WebLogic Server Configuration Guide* for SPI configuration details.



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## Chapter 4: Required Patches

Please ensure that you have the latest patches installed for your version of the OVO/UNIX management server and managed nodes.

### HP-UX Management Server and Managed Nodes

OS (Management Server)	Patch Number	Version	Date Released
HP-UX	PHSS_30283	A.07.19	3/9/2004
HP-UX	PHSS_30979	A.07.22	July 2004

OS (Managed Nodes)	Patch Number	Version	Date Released
AIX	PHSS_30466	A.07.23	3/11/2004
HP-UX 11 IA	PHSS_30169	A.07.23	3/4/2004
HP-UX 11 PA	PHSS_30124	A.07.23	3/24/2004
Linux	PHSS_30548	A.07.23.1	3/19/2004
Solaris	PHSS_30673	A.07.23.1	4/8/2004
Tru64	PHSS_30203	A.07.23	3/12/2004
Windows	PHSS_30202	A.07.24	2/12/2004

### Solaris Management Server and Managed Nodes

OS (Management Server)	Patch Number	Version	Date Released
Solaris	ITOSOL_00281	A.07.19	3/11/2004
Solaris	ITOSOL_00320	A.07.22	July 2004

OS (Managed Nodes)	Patch Number	Version	Date Released
AIX	ITOSOL_00297	A.07.23	3/11/2004
HP-UX 11 IA	ITOSOL_00300	A.07.23	3/4/2004
HP-UX 11 PA	ITOSOL_00273	A.07.23	3/24/2004
Solaris	ITOSOL_00312	A.07.23.1	4/8/2004
Tru64	ITOSOL_00276	A.07.23	3/11/2004
Windows	ITOSOL_00298	A.07.24	3/4/2004

## Downloading Patches

If you have an hp passport login and valid system handle or service agreement ID, you can download the patches from the following web site:

<http://openview.hp.com/sso/ecare/getsupportdoc?docid=OVO-PATCHES>

Otherwise, you can download the patches from the hp IT Resource Center:

1. Go to the following web site: <http://www.itrc.hp.com>
2. Under “maintenance and support (hp products),” select **patch database**.
3. Log in to or register with the site.
4. Under “find a specific patch,” enter a patch number.
5. In the “search results” page, scroll down until you can see all four steps in the “Search again” area.
6. In step 2, enter all patches you want to download.
7. In step 4, click **search >>**.
8. Under the “most recent (hp rating)” heading in the table, select the check boxes next to the patches you are downloading.
9. Click **add to selected patch list >>**.
10. Click **download selected >>**.
11. In the “download items in one operation” area, in step 2, select the desired file format of the patch.
12. In the “download items in one operation” area, in step 3, click **download >>** to start downloading the patches. Refer to the documentation that comes with the patch for information on how to install the patch.

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## Chapter 5: Compatibility and Installation Requirements

### UPGRADING FROM PREVIOUS VERSIONS

The WLS-SPI may be upgraded to version A.03.10 from previous versions by following the steps listed in the *HP OpenView Operations Smart Plug-in for BEA WebLogic Server Configuration Guide*, chapter 2, section "How to Upgrade from a Previous Version."

### SOFTWARE REQUIREMENTS

Service Navigator is not required to run the WLS-SPI. However, if you want to view service maps, Service Navigator must be installed.

NOTE – New platforms are shown in **bold and red**

### MANAGEMENT SERVERS

COMPONENT	SUPPORTED VERSIONS
HP OpenView Operations for UNIX	7.x, <b>8.0</b>

### MANAGED NODES

COMPONENT	SUPPORTED VERSIONS
WebLogic Application Server 6.1 sp1+ <sup>1</sup>	HP-UX 11.00, 11.11 HP Tru64 5.1A, 5.1B Solaris 2.6, 7, 8, 9 Windows NT, 2000, 2003/x86
WebLogic Application Server 7.0	HP-UX 11.00, 11.11 HP Tru64 5.1A, 5.1B Solaris 7, 8, 9 Windows NT, 2000, 2003/x86 Red Hat Linux Advanced Server 2.1
WebLogic Application Server 8.1	HP-UX 11.00, 11.11, 11.23 HP Tru64 5.1A, 5.1B Solaris 8, 9 Windows 2000, 2003/x86, 2003/IA64 Red Hat Linux Advanced Server 2.1, <b>3.0</b>
HP OpenView Performance Agent (UNIX or Windows)	C.03.00+
HP OpenView Reporter	A.03+
HP OpenView Performance Manager (HP-UX)	4.x
HP OpenView Performance Manager (Windows)	4.x, 5.x

<sup>1</sup> Any service pack, sp1 or greater, must be installed on WLS 6.1. WLS-SPI only supports WLS 6.1 with a service pack installed.

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## **Chapter 6: SOFTWARE AVAILABILITY IN NATIVE LANGUAGES**

None

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