



Release Notes

BMC® Performance Manager Express for Hardware by Sentry Software™

Version 2.6.00
November 2008

Sentry Software is releasing version 2.6.00 of the product BMC Performance Manager Express for Hardware. These release notes provide information about the enhancements and resolved problems in this release.

The following topics are discussed:

What's New	1
SSH Authentication with Private Key	1
New Supported Connectors/Platforms	2
Version Compatibility and Migration	2
Enhancements and Corrected Problems	3
Support Status	6
Product Documents	6
Customer Support	6

What's New

These topics describe the major new features of this product.

SSH Authentication with Private Key

Version 2.6.00 now enables SSH authentication with an SSH private key. The previous versions enables SSH sessions using only SSH login and password. Users now have the choice to use either method.



New Supported Connectors/Platforms

The table below describes the new supported connectors/platforms:

Connectors/Platforms	Description
HP ProLiant running Sun Solaris X86	BPM Express for Hardware monitors these systems out-of-band using the HP iLO management card.
LSI SAS RAID controllers	On UNIX and Linux systems, BPM Express for Hardware now provides information volumes of LSI Logic SAS RAID controllers through the lsiutil utility in addition to the physical and logical disk information.
Sun Fire M4000, M5000, M8000, M9000	BPM Express for Hardware uses the XSCF boards to monitor the following components of Sun Fire Mx000 systems: processors, memory modules, fans, voltages, power supplies, I/O boards, domains and XSCF status.
VMWare ESXi	BPM Express for Hardware now monitors the following components of VMWare ESXi: fans, processors, power supplies, memory modules, enclosure.

Version Compatibility and Migration

From v2.5.00 to v2.6.00

Automatic migration to v2.6.00 is possible if you are using v 2.5.00. In such case, upload the new v2.6.00 BMC Performance Manager Express for Hardware PAR file to the Portal, and the migration will be done automatically.

Note: This new version includes the BMC Portal WMI patch. Follow the instructions provided in the ReadMe file (ins_readme_2.6.00.pdf) for a successful upgrade.

From v2.2.x/v2.3.x to v2.6.00

Structural enhancements in BMC Performance Manager Express for Hardware from version 2.6.00 necessitate using BMC Portal v2.5.00. Hence, automatic migration from previous versions (2.2.x or 2.3.x) of BMC Performance Manager Express for Hardware is not feasible.

For v2.6.00 therefore requires un-installation of the previous version (v2.2xx/2.3.xx) and v2.6.00 needs to be freshly uploaded and installed on BMC Portal v2.5.00.

Enhancements and Corrected Problems

The following problems were reported in earlier releases of BMC Performance Manager Express for Hardware and have been corrected in this release:

Application class / Platform / Instrumentation Agent	Enhancements and Corrected Issues
Blade application class	Fixed: The discovered blade instances were not displayed at all on the Portal if its <i>Status</i> parameter returned the value “UNKNOWN”.
Hardware (Other) application class	Improved: WBEM has been added to the input properties and credentials.
HP BladeSystem: c-Class and p-Class	Improved: Monitoring of HP BladeSystem enclosures (both c-Class and p-Class). BPM Express for Hardware now discovers and monitors the blade servers in the enclosure as well as the network switches (Ethernet and FC). It also reports the power consumption of the enclosure. Fixed: Problem in collecting the parameter values for the class Power Supply.
HP-UX systems installed with Integrated Lights-Out Management Card (iLO) management card or, service processor MP or GSP commands	Fixed: On some HP-UX servers, most hardware components and sensors were properly discovered but no collect was performed for all.
HP-UX	Fixed: Error in correctly detecting the HP-UX platform type. Fixed: The CPU usage shoots up when verifying the state of the physical disk.
HP-UX (Physical Disk size)	Fixed: The size of the physical disk on HP-UX machines was not displayed correctly.
HP MP/GSP Card	Improved: BPM Express for Hardware now fully supports a broader range of MP/GSP cards. Improved: Power consumption parameter values are now collected when available.
IBM AIX	Fixed: Error in collecting values for all parameters belonging to the network class.

Application class / Platform / Instrumentation Agent	Enhancements and Corrected Issues
IBM BladeCenter	<p>Fixed: The value was not collected correctly for the <i>Status</i> parameter for power supply.</p> <p>Fixed: The value was not collected correctly for the <i>SpeedPercent</i> parameter for fans.</p>
Linux systems equipped with SmartMonTools	<p>Improved: BPM Express for Hardware now reports the status of each disk in addition to <i>PredictedFailure</i> and <i>Temperature</i> parameters.</p>
Management cards (HP iLO, Sun ALOM etc.) using SSH/Telnet connections	<p>Fixed: Problem in establishing interactive SSH/Telnet sessions.</p>
Sun servers	<p>Added: Monitoring power consumption on Sun Fire F12K, F15K, E20K and E25K systems</p> <p>Added: Monitoring environment and disk information on Sun SPARC T1/T2 using the SUNWexplo package and the ALOM card “inband”.</p> <p>Improved: Connecting to the ALOM card over the network is no longer mandatory for monitoring of Sun SPARC T1/T2-based servers (sun4v). BPM Express for Hardware can report hardware information using the Sun Explorer's snapshot "in-band" utility. Root privileges are required.</p> <p>Fixed: An issue with the activation of the <i>Temperature</i>, <i>Voltage</i> and <i>Speed</i> parameters on some sun4u systems.</p> <p>Fixed: An issue when monitoring a Sun SPARC T1/T2-based server (sun4v) through its ALOM card in SSH.</p> <p>Fixed: Monitoring problem for Sun Fire M4000, M5000, M8000, and M9000.</p>
WMI Implementation	<p>Added: The BMC's WMI patch (2.5.00.033a.zip for Portal 2.5.00 or 2.6.00.004.zip for Portal 2.6.00) is now included in BPM Express for Hardware v2.6.00.</p>

Application class / Platform / Instrumentation Agent	Enhancements and Corrected Issues
General: Telnet Client	Fixed: The script files were not copied properly on the remote element.
General: SSH/Telnet	Improved: In v 2.6.00, a single SSH/Telnet session is established for each collect i.e. every 5 minutes and any/all commands are executed using the same session. The session is closed only at the end of the collect.
General: Protocol availability tests	Improved: The protocol availability test will be performed uniquely for those protocols whose authentication credentials are provided. This is done to prevent unnecessary resource utilization.
General: Grayed out parameters	<p>On the first collect for each element, BPM Express for Hardware creates a temporary file on the RSM. From the second collect onwards it uses this file to retrieve and store data.</p> <p>Fixed: At the second collect, BPM Express for Hardware was unable to detect this file resulting in no display of data. All parameters were grayed out.</p>
General: Excess CPU usage	Fixed: The decryption process of connector files used by BPM Express for Hardware was consuming excess CPU resources.
General: RSM folder name identification problem	Fixed: The RSM folder structure name was not always correctly identified.
General: RSM service stop unexpectedly	Fixed: A regular expression used in the AWK function of BPM Express for Hardware made the RSM crash.
General: Duplicate instances	Fixed: Duplicate instances were created when a detected connector file returned a "FAILED" status.
General: SNMP Java Library	Improved: The latest version of SNMP Client by Westhawk Ltd is included in this version of BPM Express for Hardware.

Application class / Platform / Instrumentation Agent	Enhancements and Corrected Issues
General: Addition Configuration Properties	Added: Addition configuration properties such as setting the timeout values, specifying the WBEM/WMI name spaces, etc, is possible using the rsmcfg.properties file.
Storage Add-on for BMC Performance Manager Express for Hardware	Fixed: Problem in automatic detection of the WBEM namespace in SMI-S compliant SAN switches.

Support Status

For more information about the latest Support policies, see the Customer Support page on the BMC Software Web site at http://www.bmc.com/support_home.

Product Documents

The following documents support the product:

- [BMC Performance Manager Express for Hardware – Installation Guide](#)
- [BMC Performance Manager Express for Hardware – User Guide](#)
- [BMC Performance Manager Express for Hardware – Reference Guide](#)

To view the latest BMC Software books and release notes, visit the Customer Support Web page at http://www.bmc.com/support_home or the [BMC Performance Manager Express for Hardware](#) page on the Sentry Software website.

Customer Support

If you have problems with or questions about a BMC Software product, go to the BMC Software Customer Support page at http://www.bmc.com/support_home. You can view and download product documents, release notes, frequently asked questions, and related information from the Customer Support Web site. If you do not have access to the Web and you are in the USA or Canada, contact BMC Software Customer Support at 800 537 1813. Outside the USA or Canada, contact your local BMC Software office or agent.

Copyright 2008 BMC Software, Inc. or licensors. All rights reserved.

BMC Software, the BMC Software logos, and all other BMC Software product or service names are registered trademarks or trademarks of BMC Software, Inc.

IBM is a registered trademark of International Business Machines Corporation.

DB2 is a registered trademark of International Business Machines Corporation.

Oracle is a registered trademark, and the Oracle product names are registered trademarks or trademarks of Oracle Corporation.

All other trademarks belong to their respective companies.

BMC Software considers information included in this documentation to be proprietary and confidential. Your use of this information is subject to the terms and conditions of the applicable End User License Agreement for the product and the proprietary and restricted rights notices in the product documentation.

BMC Software, Inc.
2101 CityWest Blvd., Houston, TX 77042-2827 • 713 918 8800
Customer Support: 800 537 1813 (United States and Canada) or contact your local support center