

## BMC® Performance Manager Express for Hardware by Sentry Software™

Version 2.5.01  
August 2008

Sentry Software is releasing version 2.5.01 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:

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## What's New

These topics describe the major new features of this product.

### SSH Authentication with Private Key

Version 2.5.01 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 v2.5.01

Automatic migration to v2.5.01 is possible if you are using v 2.5.00. In such case, upload the new v2.5.01 BMC Performance Manager Express for Hardware PAR file to the Portal, and the migration will be done automatically.

### From v2.2.x/v2.3.x to v2.5.01

Structural enhancements in BMC Performance Manager Express for Hardware version 2.5.00 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 v2.5.xx therefore requires un-installation of the previous version (v2.2xx/2.3.xx) and v2.5.xx 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	<b>Fixed:</b> 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	<b>Improved:</b> WBEM has been added to the input properties and credentials.
HP BladeSystem: c-Class and p-Class	<b>Improved:</b> 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.
HP-UX systems installed with Integrated Lights-Out Management Card (iLO) management card or, service processor MP or GSP commands	<b>Fixed:</b> On some HP-UX servers, most hardware components and sensors were properly discovered but no collect was performed for all.
HP-UX	<b>Fixed:</b> Error in correctly detecting the HP-UX platform type
IBM AIX	<b>Fixed:</b> Error in collecting values for all parameters belonging to the network class.
IBM BladeCenter	<b>Fixed:</b> The value was not collected correctly for the <i>Status</i> parameter for power supply. <b>Fixed:</b> The value was not collected correctly for the <i>SpeedPercent</i> parameter for fans.
Linux systems equipped with SmartMonTools	<b>Improved:</b> BPM Express for Hardware now reports the status of each disk in addition to <i>PredictedFailure</i> and <i>Temperature</i> parameters.
Management cards (HP iLO, Sun ALOM etc.) using SSH/Telnet connections	<b>Fixed:</b> Problem in establishing interactive SSH/Telnet sessions.

Application class / Platform / Instrumentation Agent	Enhancements and Corrected Issues
Sun servers	<p><b>Added:</b> Monitoring power consumption on Sun Fire F12K, F15K, E20K and E25K systems</p> <p><b>Added:</b> Monitoring environment and disk information on Sun SPARC T1/T2 using the SUNWexplo package and the ALOM card “inband”.</p> <p><b>Improved:</b> 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><b>Fixed:</b> An issue with the activation of the <i>Temperature</i>, <i>Voltage</i> and <i>Speed</i> parameters on some sun4u systems.</p> <p><b>Fixed:</b> An issue when monitoring a Sun SPARC T1/T2-based server (sun4v) through its ALOM card in SSH.</p>
General: SSH/Telnet	<p>In v 2.5.00, 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. In certain cases, this could cause a memory leak.</p> <p><b>Temporary workaround:</b> In a collect (5minutes), each SSH/Telnet command is executed using a fresh session. Therefore there will be multiple SSH/Telnet sessions during one collect – depending on the number of SSH/Telnet commands executed during that collect.</p>
General: Protocol availability tests	<p><b>Improved:</b> The protocol availability test will be performed uniquely for those protocols whose authentication credentials are provided. This is done to prevent unnecessary resource utilization.</p>

Application class / Platform / Instrumentation Agent	Enhancements and Corrected Issues
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><b>Fixed:</b> 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	<p><b>Fixed:</b> The decryption process of connector files used by BPM Express for Hardware was consuming excess CPU resources.</p>
Storage Add-on for BMC Performance Manager Express for Hardware	<p><b>Fixed:</b> Problem in automatic detection of the WBEM namespace in SMI-S compliant SAN switches.</p>

## 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](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](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](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.

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