

HP-UX SysFaultMgmt (System Fault Management) (SFM) Release Notes

HP-UX 11i v3

Version: C.07.14.03.01



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HP secure development lifecycle

Starting with HP-UX 11i v3 March 2013 update release, HP secure development lifecycle provides the ability to authenticate HP-UX software. Software delivered through this release has been digitally signed using HP's private key. You can now verify the authenticity of the software, before installing the products, delivered through this release.

To verify the software signatures in signed depot, the following products must be installed on your system:

- B.11.31.1303 or later of SD (Software Distributor)
- A.01.02.00 or later of HP-UX Whitelisting (WhiteListInf)

To verify the signatures, run: `/usr/sbin/swsign -v -s <depot_path>`

For more information, see Software Distributor documentation at <http://www.hp.com/go/sd-docs>.

NOTE: Ignite-UX software delivered with HP-UX 11i v3 March 2014 release or later supports verification of the software signatures in signed depot or media, during cold installation. For more information, see Ignite-UX documentation at <http://www.hp.com/go/ignite-ux-docs>.

About this document

This document provides details of the currently supported features, enhancement, installation, patches, bugs fixed across releases (if any), known problems, issues, their workarounds, policy details, and documentation details for `SysFaultMgmt` (System Fault Management) (SFM).

Revision history of the document (Current release)

Table 1 (page 6) lists all the details about this document and its release history.

Table 1 Revision history of the document: `SysFaultMgmt` (System Fault Management) (SFM) Release Notes (Current release)

Document manufacturing part number	Edition number	Publication date	Supported operating systems
766969-004	1 (Latest edition)	April 2015 (Web release) (Current version of the document)	HP-UX 11i v3

Revision history of the document (Previous releases)

Table 2 (page 6) lists all the details about this document and its release history.

Table 2 Revision history of the document: `SysFaultMgmt` (System Fault Management) (SFM) Release Notes (Previous releases)

Document manufacturing part number	Edition number	Publication date	Supported operating systems
766969-003a	2	March/April 2015 (Web release) (Replaced document)	HP-UX 11i v3
766969-003	1 (Original edition)	March 2015 (Web release) (Document retired)	HP-UX 11i v3
766969-002a	2 (Latest edition)	April 2015 (Replaced document) (Current version of the document)	HP-UX 11i v3
766969-002	1 (Original edition)	March 2015 (Document retired)	HP-UX 11i v3
766969-001b	3 (Latest edition)	November 2014 (Replaced document) (Current version of the document)	HP-UX 11i v3
766969-001a	2	May 2014 (Document retired)	HP-UX 11i v3
766969-001	1 (Original edition)	March 2014 (Document retired)	HP-UX 11i v3

Table 2 Revision history of the document: SysFaultMgmt (System Fault Management) (SFM) Release Notes (Previous releases) (continued)

Document manufacturing part number	Edition number	Publication date	Supported operating systems
5900-3286a	2 (Latest edition)	November 2014 (Replaced document) (Current version of the document)	HP-UX 11i v3
5900-3286	1 (Original edition)	September 2013 (Document retired)	HP-UX 11i v3

NOTE: The earlier versions of SysFaultMgmt (System Fault Management) (SFM) Release Notes, prior to September 2013 release are devoid of any part numbers or are not compiled. Hence, they are not listed in the table.

1 SysFaultMgmt (System Fault Management) (SFM) release notes for April 2015 web release

This document discusses the most recent product information on HP-UX SysFaultMgmt, also referred as **System Fault Management** or **SFM**, which is supported on HP-UX 11i v3 operating systems.

Table 3 (page 8) lists the product version for which the document is applicable.

Table 3 Documentation Support for SysFaultMgmt (System Fault Management) (SFM)

Operating system	Version
HP-UX 11i v3	C.07.14.03.01

Introduction

SysFaultMgmt (System Fault Management) (SFM) is a suite of tools that monitor the health of HP servers and retrieve information about hardware, such as memory, CPU, power supplies, and cooling devices. SysFaultMgmt (System Fault Management) (SFM) operates in the WBEM (Web-based Enterprise Management) environment. It can be installed on HP-UX 11i systems. SysFaultMgmt (System Fault Management) (SFM) includes the following tools:

- SysFaultMgmt (System Fault Management) (SFM) providers
- EVWEB
- EMT (Error Management Technology)

NOTE: HP-UX need not be rebooted upon upgrade/install of this version.

2 SysFaultMgmt (System Fault Management) (SFM) providers

SysFaultMgmt (System Fault Management) (SFM) providers are tools that gather information related to various hardware devices and report to the Common Interface Model Object Manager (CIMOM).

Features of SysFaultMgmt (System Fault Management) (SFM)

Table 4 (page 9) lists SysFaultMgmt (System Fault Management) (SFM) providers, and their respective functions.

Table 4 SysFaultMgmt (System Fault Management) (SFM) providers and functions

Providers	Functions
Blade Provider and Blade Status Provider	Available on Blade servers, providing Blade inventory details and health status of blades current partition.
CPU Instance Provider	Retrieves information about processor inventory and consolidated health of the processor subsystem.
Memory Instance Provider	Gathers information about memory inventory and consolidated health of the memory subsystem.
EMS Wrapper Provider	Converts events generated by the EMS hardware monitors into indications and reports those indications to the CIMOM. NOTE: This provider and WBEM to EMS Consumer is not supported on HP Integrity BL860c i2, BL870c i2 and BL890c i2 Server Blades, rx2800 i2, rx2900 i4, HP Integrity Superdome 2 Server and Intel Itanium 9500 Processor Series.
FMD (Filter Metadata) Provider	Provides the facility to predefine the important filter in a repository. FMD also ensures that all important or chosen indications are logged to the local event archive. FMD creates HP-advised subscriptions when SysFaultMgmt (System Fault Management) (SFM) is installed.
Environmental Instance Providers	Retrieve information about cooling devices (fans) and power supply (bulk power supply and AC input lines) on HP servers. They also retrieve consolidated health of cooling, power, system temperature, and system voltage subsystems on HP servers.
EVM CIM (Event Manager Common Information Model) Provider	Converts EVM events into indications and reports those indications to the CIMOM.
SFM Indication Provider	Generates WBEM indications equivalent to the events that the monitors it replaces generate.
Firmware Revision Instance Provider	Retrieves information about the firmware revision of system hardware components, such as system firmware version and Management Processor (MP) firmware version.
MP Instance Provider	Retrieves information about the management processor of the system.
Enclosure Instance Provider	Retrieves information about the Onboard Administrator (OA), such as OA description, OA IP address, OA MAC address, and the URL to launch the OA.
Record Log Provider	Enables event analysis tools such as Web-Based Enterprise Services (WEBES) to access details of indications generated by the SFMIndicationProvider that are available in the SysFaultMgmt (System Fault Management) (SFM) database, for event analysis. The Record Log provider also enables event analysis tools to access MCA logs for event analysis.

Table 4 SysFaultMgmt (System Fault Management) (SFM) providers and functions (continued)

Providers	Functions
Temperature Sensor Instance Provider	Describes properties such as sensor number, current temperature reading, and temperature sensor status.
Computer System Chassis Provider	Describes properties such as the serial number, product ID, and virtual Universally Unique ID (UUID).
MCA Indication Provider	Generates WBEM indications when MCA logs are present.
Field Replaceable Unit (FRU) Instance Provider	Retrieves properties such as the serial number, part number, version, manufacturer and FRU name.

Table 5 (page 10) lists SysFaultMgmt (System Fault Management) (SFM) providers supported on HP Superdome 2, and their respective functions.

Table 5 SysFaultMgmt (System Fault Management) (SFM) providers supported on HP Superdome 2

Providers	Functions
Blade Provider and Blade Status Provider	Available on Blade servers, providing Blade Inventory details and health status of blades current partition.
CPU Instance Provider	Retrieves information about processor inventory and consolidated health of the processor subsystem.
Memory Status Provider	Consolidates the health of the memory subsystem.
SFM Indication Provider	Generates WBEM indications equivalent to the events that the monitors it replaces generate. The events related to CMC_IndicationProviderIA are supported on HP Superdome 2.
MP Provider and MP Status Provider	Retrieves information about the management processor of the system.
Enclosure Provider and Enclosure Status Provider	Retrieves information about the Onboard Administrator (OA), such as OA description, OA IP address, OA MAC address, and the URL to launch the OA.
Record Log Provider	Enables event analysis tools such as Web-Based Enterprise Services (WEBES) to access details of indications generated by SFMIndicationProvider that are available in the SysFaultMgmt (System Fault Management) (SFM) database, for event analysis.
Computer System Chassis Provider	Describes properties such as the serial number, product ID, and virtual Universally Unique ID (UUID).

Supported Event Monitoring Service (EMS) hardware monitors for SysFaultMgmt (System Fault Management) (SFM)

SysFaultMgmt (System Fault Management) (SFM) is the default monitoring mode. However, you can switch to the OnlineDiag monitoring mode. For information on how to switch to the OnlineDiag mode, see SysFaultMgmt (System Fault Management) (SFM) Administrator's Guide at <http://www.hp.com/go/hpux-diagnostics-docs>.

The diagnostic mode will be set to SysFaultMgmt (System Fault Management) (SFM) mode by default on updating SysFaultMgmt (System Fault Management) (SFM). This overrides any previous mode setting done manually on the system and needs to be restored. Verify the current diagnostic mode before and after the update/installation of the WBEMMgmtBundle.

NOTE: OnlineDiag monitoring mode is not supported on HP Integrity BL860c i2, BL870c i2 & BL890c i2 Server Blades, rx2800 i2, HP Integrity Superdome 2, HP Integrity BL860c i4, BL870c i4, BL890c i4, rx2800 i4, and rx2900 i4. Therefore, switching between modes will not be available on these HP Integrity Servers.

The Event Monitoring Service (EMS) wrapper provider receives events generated by the EMS hardware monitors. The following EMS hardware monitors are supported on HP 9000 servers running the HP-UX 11i v3 operating system:

- LPMC (now CPU) (lpmc_em)
- Memory (dm_memory)
- Core HW (dm_core_hw)
- Chassis Code (dm_chassis)
- IPMI Forward Progress Log Monitor (fpl_em)

The following EMS hardware monitors are supported on HP Integrity servers running the HP-UX 11i v3 operating system:

- Corrected platform error monitor (cpe_em)
- IPMI forward progress log monitor (fpl_em)
- CMC monitor (cmc_em)
- Itanium core hardware monitor (ia64_corehw)
- Itanium memory monitor (memory_ia64)

NOTE: All of EMS hardware monitors are not supported by EMS wrapper provider included in SysFaultMgmt (System Fault Management) (SFM) product. For information on other providers like I/O and Storage, see HP WBEM providers at <http://www.hp.com/go/hpux-wbem-docs>.

What is new in this version for SysFaultMgmt (System Fault Management) (SFM)

From current WBEMMgmtBundle C.09.02 (April 2015) release

There is no new feature in this release.

From current C.07.14.03.01 (April 2015) release

For more information about defect fixed in this release, see “Defect fixes in C.07.14.03.01 (April 2015) release” (page 13).

From previous WBEMMgmtBundle C.09.01 (March 2015 web) release

PostgreSQL version is upgraded to 9.3 in SysFaultMgmt (System Fault Management) (SFM) and ProviderSvcsBase (PSB) products, from March 2015 web release.

From previous C.07.14.02.01 (March 2015 web) release

There is no defect fix in this release.

From earlier C.07.13.09.01 (March 2015) release

For more information about defect fixed in this release, see “Defect fixes in C.07.13.09.01 (March 2015) release” (page 13).

From earlier WBEMMgmtBundle C.08.01 (March 2014) release

There is no new feature in this release.

From earlier C.07.12.06.01 (March 2014) release

For more information about defect fixed in this release, see “Defect fixes in C.07.12.06.01 (March 2014) release” (page 15).

From earlier `WBEMMgmtBundle C.07.01` (September 2013) release

Starting with the earlier `WBEMMgmtBundle C.07.01` (September 2013) release onwards, following features are supported.

- `sfmDBUtil` is enhanced to support displaying the disk space occupied by databases. For more information on the newly introduced 'size' option, see `sfmDBUtil manpage`.
- Improved memory system reliability on BL860c i4, BL870c i4, BL890c i4, rx2800 i4 and rx2900 i4.

Other prerequisites: System firmware version 44.01 or later (see *server download page* under <http://www.hp.com/go/hpsc>).

NOTE: It is recommended to install or upgrade to `WBEMMgmtBundle C.07.01` or current version `C.07.12.05.02` or later, prior to upgrading the system firmware. If system firmware version 44.01 or later is already installed on the system, it is required to reboot the system after upgrading to `WBEMMgmtBundle C.07.01` or current version `C.07.12.05.02` or later, for optimized memory reliability to take effect.

- Enhanced support for fetching error metadata from CER.
-

NOTE: As part of this performance optimization, `EMDProvider` will not be a part of `SFMPProviderModule` from this release. `EMDProvider` was used internally by other providers for fetching error metadata.

- Support for Integrity rackmount server rx2900 i4.

From earlier releases

Following are the features tabulated from earlier releases.

- PostgreSQL version is upgraded to 8.4 in `SysFaultMgmt` (System Fault Management) (SFM) and `ProviderSvcBase` (PSB) products, since September 2012 release.
- Common location of configuration and log files for simpler management on IA servers :
SFM is enhanced to enable simpler management of configuration and log files from a common location. Soft links are now available from the common location `/var/opt/psb/diags/conf/sfm` and `/var/opt/psb/diags/log/sfm` to SFM configuration and log files respectively.
- The `slview` now has a new manpage, and the IPMI Event Viewer has a new GUI help page.
- A consistent property order is adapted for syslog events generated by SFM indication providers, which is `Providename`, `Perceived Severity`, and `Event Number`.
- Support for processing of preboot FPL events to generate WBEM indication is provided. A parameter, which can be configured, `FPLPreBoot`, is provided to receive preboot events from FPL Indication provider.
- The `sfmDBUtil` is enhanced to support cleaning up specific DB. For information on the 'clean' option, see `sfmDBUtil manpage`.
- A new configuration parameter `MaxNumPagesAllowed` replaces `PageSize` in `DBConfig.xml` file. This parameter allows you to specify the maximum number of pages that can be occupied by the current database.

Enhancements of SysFaultMgmt (System Fault Management) (SFM)

Following enhancements are supported in the previous C.07.12.06.01 (March 2014) release.

- Enhancements to "ERROR" and "CRITICAL" logs reported in `sfm.log`, making it more customer focused and user friendly for better understanding and debugging the issues. Support for enhancement of "ERROR" and "CRITICAL" logs providing details, such as context of the issue, customer impact, and resolution, if applicable.
- Enhancements in `cprop` output for memory property page. Improved SMH (System Management Homepage) memory error property page and updates to documentation in Manpage and SysFaultMgmt (System Fault Management) (SFM) Administration Guide.

SysFaultMgmt (System Fault Management) (SFM) related defect fixes

This section describes about the various defects fixed for SysFaultMgmt (System Fault Management) (SFM) in HP-UX 11i v3 operating systems.

Defect fixes in C.07.14.03.01 (April 2015) release

Table 6 (page 13) lists all the necessary details for the defect fixed in this release.

Table 6 C.07.14.03.01

Defect ID	Description
QXCR1001410651	<p>Title: WBEMMgmtBundle C.09.01 depot swcopy on IA and installation on PA systems failing</p> <p>Severity: Serious</p> <p>Problem and details: The Mega Bundle depot version WBEMMgmtBundle C.09.01 is failing to execute and showing errors, when it is performing swcopy on IA and installing on PA systems.</p> <p>Resolution: This problem is identified and rectified.</p> <p>This issue is fixed in this release.</p>

Defect fixes in C.07.14.02.01 (March 2015 web) release

There is no defect fix in this release.

Defect fixes in C.07.13.09.01 (March 2015) release

Table 7 (page 13) lists all the necessary details for all the defects fixed in this release.

Table 7 C.07.13.09.01

Defect ID	Description
QXCR1001332720	<p>Title: Enable reporting of Pre-BOOT FPL events by default</p> <p>Severity: Serious</p> <p>Problem and details: The reporting was disabled for critical preboot events in the default configurations. The expectation from users is that SFM reports all the critical platform errors. Hence the default configuration setup must be modified to "report" critical preboot events.</p> <p>Resolution: This issue is fixed in this release.</p>
QXCR1001354515	<p>Title: Event #100161 reported after OLAR operation without any real failure</p> <p>Severity: Serious</p> <p>Problem and details: EVM event type values were set only for SFM supported PCIe EVM event types and not for other EVM types. But, in few instances these non supported events assumed the values of the supported events and were wrongly processed by SFM.</p> <p>Resolution: This issue is fixed in this release.</p>

Table 7 C.07.13.09.01 (continued)

Defect ID	Description
QXCR1001357574	<p>Title: EMT (Error Management Technology) section is missing from <i>HP SMH</i> (System Management Homepage) tools page</p> <p>Severity: Serious</p> <p>Problem and details: <i>HP SMH</i> (System Management Homepage) is unable to load the parse webapp configuration file <code>/opt/hpsmh/webapp/emtui.xml</code> due to a comment present on the first line of this file.</p> <p>Resolution: This issue is fixed in this release.</p>
QXCR1001342846	<p>Title: Cleanup subscriptions during product configuration is not active</p> <p>Severity: Serious</p> <p>Problem and details: Whenever a user tries to delete the default syslog subscription, it fails. The issue occurs due to an exception thrown by the subscription subsystem when it does not find the "to be deleted" subscription entry in the <code>cimstore</code> but not in the <code>evweb db</code>.</p> <p>Resolution: This issue is fixed in this release.</p>
QXCR1001308544	<p>Title: SFM missing <code>HP_General_Filter@1_V1</code> when there is no FQDN</p> <p>Severity: Medium</p> <p>Problem and details: <code>HP_General_Filter@1_V1</code> subscription is missed when the database does not have the fully qualified domain name. When hostname of a system is not in sync with the hostname in the database, then SFM deletes the HP defined subscription <code>HP_General_Filter@1_V1</code>. The problem occurs irrespective of SFM and database version.</p> <p>Resolution: This issue is fixed in this release.</p>
QXCR1001319503	<p>Title: Enhance SFM email delivery to send SMTP commands in one line</p> <p>Severity: Serious</p> <p>Problem and details: SFM currently sends each SMTP commands as one character at a time. While sending email to a remote SMTP server, each command is received character by character instead of a single packet. This eventually results in the termination of the SMTP connection.</p> <p>Resolution: This issue is fixed in this release.</p>
QXCR1001317199	<p>Title: <code>rx2800 i4 FAN</code> status changes are delayed in <code>cprop/HP SMH</code> (System Management Homepage)</p> <p>Severity: Medium</p> <p>Problem and details: The cache is not refreshed for all the events. Therefore, FAN status update is delayed or not updated. The FAN may also get impaired due to some problem.</p> <p>Resolution: This issue is fixed in this release.</p>
QXCR1001344166	<p>Title: <i>HP SMH</i> (System Management Homepage) shows the power subsystem status as "unknown"</p> <p>Severity: Medium</p> <p>Problem and details: <i>HP SMH</i> (System Management Homepage) does not show the appropriate status of a power subsystem when a power input to one of the power supply is removed. <i>HP SMH</i> (System Management Homepage) shows the power subsystem status as "unknown", instead of a degraded or warning state.</p> <p>Resolution: This issue is fixed in this release.</p>
QXCR1001338750	<p>Title: SFM shows status of a "MISSING" FAN as OK</p> <p>Severity: Serious</p> <p>Problem and details: When a hot-swappable FAN is removed, <code>cprop/HP SMH</code> (System Management Homepage) does not show the correct status of the FAN. Even though the <code>iLO</code> shows the correct status as failure, SFM continues to show the FAN status as OK.</p> <p>Resolution: This issue is fixed in this release.</p>

Defect fixes in C.07.12.06.01 (March 2014) release

Table 8 (page 15) lists all the necessary details for all the defects fixed in this release.

Table 8 C.07.12.06.01

Defect ID	Description
QXCR1001292823	<p>Title: Memory growth in cimprovagt SFMProviderModule when CPU's flexed</p> <p>Severity: Medium</p> <p>Problem and details: During <i>vPar</i> resource reassignment, <i>SysFaultMgmt</i> (System Fault Management) (SFM) inappropriately handled the release and liberation of allocated resources.</p> <p>Resolution: This issue is fixed in this release.</p>
QXCR1001300058	<p>Title: <i>SD2:cprop</i>: Incorrect reporting of socket deconfiguration state in <i>vPars</i></p> <p>Severity: Medium</p> <p>Problem and details: Incorrect de-configuration state in <i>HP_ProcessorChip</i> enumeration in SD2 servers.</p> <p>Resolution: This issue is fixed in this release.</p>
QXCR1001309081	<p>Title: PCIe Indications on SD2 need to match the current state of PCI slot</p> <p>Severity: Medium</p> <p>Problem and details: Successful OLAR operations generated PCI error recovery successful event 100160.</p> <p>Resolution: This issue is fixed in this release.</p>
QXCR1001266977	<p>Title: Operational status getting wrongly updated after injection of S-M-7 and S-M-8</p> <p>Severity: Serious</p> <p>Problem and details: Operational Status of <i>HP_Blade</i> instances not updated after indictment of blade in BL8x0c i2 and BL8x0c i4 servers.</p> <p>Resolution: This issue is fixed in this release.</p>
QXCR1001290401	<p>Title: Event not emitted when injecting S-CX-2 using link from cpu-boxboro and vice-versa</p> <p>Severity: Serious</p> <p>Problem and details: WBEM event 100812 was not generated in certain scenarios.</p> <p>Resolution: This issue is fixed in this release.</p>
QXCR1001321306	<p>Title: <i>HP_KnownFilter</i> enumeration fails when users create HP/ADMIN defined subscription</p> <p>Severity: Critical</p> <p>Problem and details: <i>HP_KnownFilter</i> enumeration fails when users create HP/ADMIN defined subscription in addition to <i>HP_General_Filter@1_V1</i> subscription.</p> <p>Resolution: This issue is fixed in this release.</p>
QXCR1001292226	<p>Title: Issue with the firmware call/mapping in SFM after manual deconfiguration of DIMM</p> <p>Severity: Serious</p> <p>Problem and details: On BL8x0c i2 and BL8x0c i4 when a DIMM is manually de-configured, the status of DIMM was shown as DEGRADED instead of STOPPED. The status of blade as displayed by Integrated Lights-Out 3 Page and Onboard Administrator mismatched the status as displayed by Blade provider.</p> <p>Resolution: This issue is fixed in this release.</p>

Defect fixes in earlier releases

Table 9 (page 16) lists all the necessary details for all the defects fixed in this release.

Table 9 Earlier releases

Defect ID	Description
QXCR1001265239	<p>Title: SEL02_IndicationProvider notified wrong power supply module</p> <p>Severity: Serious</p> <p>Problem and details: If more than one power supply present on the server, then <code>evweb eventviewer -Lfx</code> command always listed the first <i>Power Supply</i>, in the event details section.</p> <p>Resolution: This issue is fixed in this release.</p>
QXCR1001304559	<p>Title: <code>diagtxd_pid.bin</code> is created with incorrect permissions</p> <p>Severity: Serious</p> <p>Problem and details: The <code>diagtxd_pid.bin</code> file created by the <code>diagtxt</code> daemon has incorrect permissions.</p> <p>Resolution: This issue is fixed in this release.</p>
QXCR1001292224	<p>Title: Inconsistent blade status at OS when in comparison to iLO and OA</p> <p>Severity: Serious</p> <p>Problem and details: On <code>BL8x0c i2</code> and <code>BL8x0c i4</code> servers, the status of the blade(s) as displayed by the Blade providers mismatched the status of the blade as displayed by the Integrated Lights-Out 3 Page and Onboard Administrator.</p> <p>Resolution: This issue is fixed in this release.</p>
QXCR1001178587	<p>Title: <code>ic373b:1203:LID</code> in event details of S-CX symptoms is always <code>0x00000000ffffff</code>. The LID field in event details of HP internal test scenarios always displays as <code>0x00000000ffffff</code></p> <p>Severity: Medium</p> <p>Problem and details: The LID field in the event description of some HP internal test scenarios is always <code>0x00000000ffffff</code> irrespective of physical location used for injecting the symptoms.</p> <p>This issue is fixed. The LID field in the event description of some HP internal test scenarios is displayed as "Not Applicable".</p> <p>Resolution: This issue is fixed in this release.</p>
QXCR1001236889	<p>Title: System Temperature collection not in sync with Instance status</p> <p>Severity: Serious</p> <p>Problem and details: Group operational status of temperature sensors is not in sync with individual operational status of sensors.</p> <p>This issue is fixed. The group operational status is updated whenever the individual sensor status is updated.</p> <p>Resolution: This issue is fixed in this release.</p>
QXCR1001143295	<p>Title: <code>SMH/CIMUtil/cprop</code> does not display all the power supplies after a system reboot</p> <p>Severity: Medium</p> <p>Problem and details: The <code>cprop</code> is not displaying all Power Supply modules immediately after a system reboot.</p> <p>This problem in inventory information is fixed.</p> <p>Resolution: This issue is fixed in this release.</p>
QXCR1001217840	<p>Title: <code>DBConfig.xml</code> hard code and document maximum/minimum values</p> <p>Severity: Medium</p> <p>Problem and details: The maximum/minimum values of parameters in <code>DBConfig.xml</code> are not hardcoded.</p> <p>Resolution: This issue is fixed in this release.</p>

<p>QXCR1001228287</p>	<p>Title: Upgrade to any <code>WBEMgmtBundle</code> from older OEs does not cleanup <code>p.1</code> files</p> <p>Severity: Medium</p> <p>Problem and details: After upgrade of March 2009 OE version of SFM on an IA server to <code>WBEMgmtBundle C.01.01</code> version, the monitors are running, but in the <code>/etc/opt/resmon/persistence</code> file, the intermediate <code>p.1*</code> and <code>p.2.*</code> files for monitors restart still exist.</p> <p>This issue is fixed. The <code>p.*</code> files are removed in post install scripts.</p> <p>Resolution: This issue is fixed in this release.</p>
<p>QXCR1001259149</p>	<p>Title: SFM: locale settings should not affect database installation</p> <p>Severity: Serious</p> <p>Problem and details: The installation/upgrade of SFM September 2012 release from prior releases fails on HP 9000 systems with locale settings not supported by postgres 8.4.8 server.</p> <p>This issue is fixed. Postgres database server explicitly initialized with "C" locale.</p> <p>Resolution: This issue is fixed in this release.</p>
<p>QXCR1001269605</p>	<p>Title: Better to pipe <code>pg_dump</code> output to compress to reduce disk used by backup file</p> <p>Severity: Medium</p> <p>Problem and details: Upgrade to 1303 releases failed due to disk full issues caused by postgres data backup file.</p> <p>This issue is fixed. The output of the backup command was compressed in-place to keep the disk usage minimal.</p> <p>Resolution: This issue is fixed in this release.</p>
<p>QXCR1001269605</p>	<p>Title: Better to pipe <code>pg_dump</code> output to compress to reduce disk used by backup file</p> <p>Severity: Medium</p> <p>Problem and details: Time of events displayed with <code>EVWEB</code> event viewer <code>-L</code> and <code>-E</code> disagree with respect to DST.</p> <p>Upgrade to 1303 releases failed, due to one-hour discrepancy between "Archive Time" in <code>EVWEB</code> summary and "Event Time" in <code>EVWEB</code> details when TZ is EST5EDT.</p> <p>This issue is fixed. The output has no one-hour discrepancy between "Archive Time" in <code>EVWEB</code> summary and "Event Time" in <code>EVWEB</code> details.</p> <p>Resolution: This issue is fixed in this release.</p>
<p>QXCR1001272508</p>	<p>Title: <code>EVWEB</code> subscribe provide a new option accepting <code>WBEM</code> severity</p> <p>Severity: Medium</p> <p>Problem and details: <code>EVWEB</code> subscribe provides a new option accepting <code>WBEM</code> severity.</p> <p>For CLI: Add an <code>-m</code> option to support <code>WBEM</code> severity setting when using <code>"EVWEB subscribe"</code> command.</p> <p>For SMH (System Management Homepage): Add the severity type chosen (<code>EVWEB</code> or <code>WBEM</code>) in "subscription Administration" part.</p> <p>Resolution: This issue is fixed in this release.</p>
<p>QXCR1001312682</p>	<p>Title: Adding a note in <code>mem</code> and <code>cpu</code> prop page for <code>iLo</code> link</p> <p>Severity: Serious</p> <p>Problem and details: Improving the Blade, CPU, and Memory pages of SMH (System Management Homepage), by providing a link to <code>iLO</code> (Integrated Lights Out) for getting more accurate and up-to-date error status.</p> <p>A note is added in Memory and Processor SFM property pages, which indicates the following text:</p> <p>"See Integrated Lights-Out 3 page, for latest health of <code>[DIMM or DIMMs]</code> / <code>[Processor(s)]</code>, if the health of the corresponding blade indicates an ERROR state"</p> <p>Resolution: This issue is fixed in this release.</p>

3 EVWEB

EVWEB is a tool that can be used to view and administer WBEM indications generated on the HP-UX 11i v3 system. EVWEB tool includes the following components.

Components of EVWEB

Following are the components of EVWEB.

Event subscription administrator

Event subscription administrator enables users to subscribe to an indication and view it. In addition, users with administrative privileges can also modify, and delete subscriptions. By subscribing to an indication, users can obtain detailed information about various WBEM indications.

As a part of event subscription, users must specify event subscription criteria. Users must also select one or more destinations to receive information about indications.

Users can select one or more destination from the following list:

- **Event archive:**
The path of Event archive is `/var/opt/sfmdb/pgsql` for PA-RISC and `/var/opt/psb/db/pgsql/` for Itanium. Event archive is the default destination.
- **Email:**
Event notification is mailed to the specified email address. Users can specify multiple email addresses.
- **syslog:**
The path to syslog is `/var/adm/syslog/syslog.log`.

Event viewer

The event viewer enables users to view the indications stored in the Event archive. In addition, users with administrative privileges can also delete these indications. By default, HP-advised subscriptions are stored in the Event archive. The event viewer also enables users to search for an indication logged in the Event Archive.

Log viewer

The log viewer enables users to view and search the low level logs stored in the log database.

Benefits of EVWEB

Following are the benefits of EVWEB:

- Enables users to manage all WBEM indications that are supported by `SystemFaultMgmt` (System Fault Management) (SFM).
- Provides an option to customize the indication destination to receive information about HP-advised subscriptions.
- Enables users to view the command-line equivalent of an action performed using the GUI, thereby, educating users about the usage of various commands.

Features of EVWEB

EVWEB offers the following features:

- Provides both quick search and advanced search mechanisms to view events from the Event archive.
- Provides both simple and advanced search mechanism to search for low level logs from the log viewer.
- Generates a list of events in a printer-friendly format (GUI only).
- Enables users with administrative privileges to create, modify, and delete indications.
- Enables users to view subscriptions created using EVWEB
- Enables users to view externally created subscriptions.
Subscriptions created by using tools other than EVWEB are termed as externally created event subscriptions.
- Enables users to view HP-advised subscriptions. HP-advised subscriptions are provided by default by HP.

NOTE: EVWEB supports these features on browser-based GUI and the CLI.

What is new in this version for EVWEB

From current `WBEMMgmtBundle C.09.02` (April 2015) release

There is no new feature in this release.

From current `C.07.14.03.01` (April 2015) release

There is no new feature or defect fixed in this release.

From previous `WBEMMgmtBundle C.09.01` (March 2015 web) release

PostgreSQL version is upgraded to 9.3 in `SysFaultMgmt` (System Fault Management) (SFM) and `ProviderSvcBase` (PSB) products, from March 2015 web release.

From previous `C.07.14.02.01` (March 2015 web) release

There is no new defect fixed in this release.

From earlier `C.07.13.09.01` (March 2015) release

There is no new feature or defect fixed in this release.

From earlier `WBEMMgmtBundle C.08.01` (March 2014) release

There is no new feature in this release.

From earlier `C.07.12.06.01` (March 2014) release

For more information about defect fixed in this release, see “Defect fixes in `C.07.12.06.01` (March 2014) release” (page 21).

From earlier `WBEMMgmtBundle C.07.01` (September 2013) release

Starting with the earlier `WBEMMgmtBundle C.07.01` (September 2013) release onwards, the following features are supported.

- With this release users can create `EVWEB` event subscription using the `WBEM` Severity. A new option `-m` is introduced to create an event subscription, using `"EVWEB subscribe"` command through command line interface (CLI). For creating an event subscription, by choosing `WBEM` severity in `SMH` (System Management Homepage), a new option `"wbem"` is added in `"subscription Administration"`.
- A note in the `EVWEB` manpage is added for mentioning the kind of options that are supported only in CLI.

NOTE: For more information, see `EVWEB subscribe` manpage.

- The success and failure return values are added for the `EVWEB` command. The command returns different value for different status like Error occurred, command successful, Subscription already exists, and so on.

[Table 10 \(page 20\)](#) lists different return values for different commands.

Table 10 Return values and types for `EVWEB subscribe` command

Return value type	Return Value
Success	0
Reserve	1
DOM processing failed	2
XML parsing failed	3
Command execution failed	4
Invalid command switch argument	5
Invalid command	6
Other known exception	7
Unknown exception	8
Data loss in log viewer	9
Command parsing failed	10

`EVWEB` related defect fixes

This section describes about the various defects fixed for `EVWEB`.

Defect fixes in `C.07.14.03.01` (April 2015) release

There is no new defect fix in this release.

Defect fixes in `C.07.14.02.01` (March 2015 web) release

There is no new defect fix in this release.

Defect fixes in `C.07.13.09.01` (March 2015) release

There is no new defect fix in this release.

Defect fixes in C.07.12.06.01 (March 2014) release

Table 11 (page 21) lists all the necessary details for the defect fixed in this release.

Table 11 C.07.12.06.01

Defect ID	Description
QXCR1001259605	<p>Title: Time of events displayed with EVWEB event viewer -L and -E disagree with respect to DST</p> <p>Severity: Medium</p> <p>Problem and details: Time of events displayed with EVWEB event viewer -L and -E options do not match with respect to DST.</p> <p>Resolution: This issue is fixed in this release.</p>

Defect fixes in the earlier releases

Table 12 (page 21) lists all the necessary details for all the defects fixed in this release.

Table 12 Earlier releases

Defect ID	Description
QXCR1001239663	<p>Title: EVWEB event viewer throws "internal error"</p> <p>Severity: Medium</p> <p>Problem and details: EVWEB event viewer throws "internal error" due to database corruption. When you run the command:</p> <pre># evweb eventviewer -L</pre> <p>The following error message is observed:</p> <pre>Failed to complete the command due to internal error The execution of command failed.</pre> <p>Resolution: This issue is fixed in this release.</p>
QXCR1001184856	<p>Title: IC373 SMH calls cprop with options that do not match the Manpage</p> <p>Severity: Medium</p> <p>Problem and details: HP SMH (System Management Homepage) calls cprop with options that do not match the manpage. The cprop_healthtest(1) "-log " command specifies does not match with command preview on SHM.</p> <p>This issue is resolved. The memory health test commands on SMH (System Management Homepage) show the correct options.</p> <p>Resolution: This issue is fixed in this release.</p>
QXCR1001199653	<p>Title: EVWEB subscribe -M option isn't consistent with Manpage in some places</p> <p>Severity: Medium</p> <p>Problem and details: The evweb subscribe -M option is not consistent with the manpage.</p> <p>The evweb subscribe -M option is not consistent with the manpage specifications of evweb subscribe -M , -s, -r.</p> <p>Resolution: This issue is fixed in this release.</p>

Limitations of EVWEB

Following are the of limitations EVWEB.

- When an HP-advised subscription is copied to create or modify another subscription, the subscription criteria is not copied. However, only destinations are copied to the new subscription.
- Event details displayed in EVWEB event viewer and embedded in the EVWEB email notification may not have similar readability or formatting as provided by EMS event notification. However, this issue is not applicable to HP_DeviceIndication class indications.
- The -T option to create and manage throttling configuration is no longer supported and the feature is not available in the HP-UX 11i v3 systems.

4 Error Management Technology (EMT)

Error Management Technology (EMT) is a component of `SysFaultMgmt` (System Fault Management) (SFM). EMT includes Common Error Repository (CER), which is an online, searchable, and it can be updated for its error repository. The CER contains error metadata such as error description, error number, error type, severity, cause of the error, and corrective actions for errors generated on the HP-UX 11i v3 system.

Benefits of EMT

Following are the benefits of EMT:

- Enables users to view most errors that can occur on the HP-UX 11i v3 system.
- Provides an option to the administrators to add, modify, and delete custom solutions.
- Enables users to view the command-line equivalent of an action performed using the GUI, thereby, educating users about the usage of various commands.

Features of EMT

EMT offers the following features:

- Provides both quick search and advanced search mechanisms to view error metadata from CER
- Generates a list of errors in a printer-friendly format (GUI only)
- Enables users with administrative privileges to create, modify, and delete custom solutions.

NOTE: EMT supports these features on browser-based GUI and the CLI.

What is new in this version for EMT

There is no new feature in the current release.

From current `WBEMMgmtBundle C.09.02` (April 2015) release

There is no new feature in this release.

From current `C.07.14.03.01` (April 2015) release

There is no new feature or defect fixed in this release.

From previous `WBEMMgmtBundle C.09.01` (March 2015 web) release

PostgreSQL version is upgraded to 9.3 in `SysFaultMgmt` (System Fault Management) (SFM) and `ProviderSvcsBase` (PSB) products, from March 2015 web release.

From previous `C.07.14.02.01` (March 2015 web) release

There is no new defect fixed in this release.

From earlier `C.07.13.09.01` (March 2015) release

There is no new feature or defect fixed in this release.

EMT related defect fixes

There is no new defect fixed in the current release.

Defect fixes in C.07.14.03.01 (April 2015) release

There is no new defect fix in this release.

Defect fixes in C.07.14.02.01 (March 2015 web) release

There is no new defect fix in this release.

Defect fixes in C.07.13.09.01 (March 2015) release

There is no new defect fix in this release.

Limitations of EMT

Following is a limitation of EMT — When you make a generic query to the CER, a huge amount of data is retrieved from the CER. However, this behavior may affect the performance of EMT.

5 System requirements

`SysFaultMgmt` (System Fault Management) (SFM) is supported on the following systems running the HP-UX 11i v3 operating system:

HP 9000 servers

Following are the supported versions for HP 9000 servers.

- rp3410
- rp3440
- rp4410
- rp4440
- rp4440-8
- rp7405
- rp7410
- rp7420
- rp8400
- rp8420
- SD16, SD32, SD64
- SD16A, SD32A, SD64A
- SD16B, SD32B, SD64B

HP Integrity servers

Following are the supported versions for HP Integrity servers.

- Superdome SX2000
- cx1600
- cx2600
- cx2620
- rx1600
- rx1620
- rx2600
- rx2620
- rx2660
- rx3600
- rx4640
- rx4640-8
- rx5670
- rx5670-4
- rx6600
- rx7620
- rx7640

- rx8620
- rx8640
- SD16A, SD32A, SD64A
- SD16B, SD32B, SD64B
- BL60p HP Server Blade
- BL860c HP Server Blade
- BL870c HP Server Blade
- BL860c i2, BL870c i2, BL890c i2
- BL860c i4, BL870c i4, BL890c i4
- Superdome 2
- rx2800 i2
- rx2800 i4
- rx2900 i4

Dual-Core Intel™ Itanium™ Processor 9100 series

sysFaultMgmt (System Fault Management) (SFM) supports the following systems based on the Dual-Core Intel™ Itanium™ Processor 9100 series and running the HP-UX 11i v3 operating system:

- rx7640
- rx8640
- SD16B
- SD32B
- SD64B

6 Prerequisites

The following are the prerequisites for installing the April 2015 version of `sysFaultMgmt` (System Fault Management) (SFM) software:

- HP-UX 11i v3 February 2007 release or later
- EMS-Core A.04.00.01 or later
- OpenSSL version A.00.09.08g.001 or later
- EVM-EventMgr B.11.31 September 2007 or later
- SysMgmtBase version B.00.02.03 (Interface) or later
- WBEMsvcs version A.02.09.02 or later
- PHCO_40289 (for Itanium only)
- PHSS_41185 11.31 aC++ Runtime (IA: A.06.25.01, PA: A.03.90)
- SysMgmtWeb (HP-UX Web-Based System Management User Interface) version A.3.0.0.2, September 2009 release or later
- HPSIM-HP-UX (HP Systems Insight Manager or *HP SIM*) version C.06.01 or later

NOTE: HP recommends using HP SIM (Systems Insight Manager) for managing HP servers and storage.

- ProviderSvcsBase (PSB) version C.13.00.03, September 2013 release or later
- SysMgmtPlus version A.10.00.03.01, March 2014 release or later
- OnlineDiag version B.11.31.05.yy on HP 9000 systems only, March 2009 release or later

EMS version	A.04.20.31
STM version	D.06.00

NOTE:

- The prerequisites have changed for the following three product versions, since the release of March 2014 version of `SysFaultMgmt` (System Fault Management) (SFM):
 - `aC++ Runtime patch`
 - `ProviderSvcsBase` (PSB)
 - `SysMgmtPlus`
 - The listed versions of the software are the minimum supported requirements. Subsequent versions are compatible with this version of `SysFaultMgmt` (System Fault Management) (SFM) unless otherwise noted.
 - Wbem Services, Online Diagnostics, `SysMgmtWeb`, and HP SIM are available on the Operating Environment (OE) media and can be selected for install during the `SysFaultMgmt` (System Fault Management) (SFM) installation.
 - HP SMH (System Management Homepage) bundled in `SysMgmtWeb`. You cannot access the `EVWEB` GUI (Event viewer, Subscription Administration and Log Viewer interface), `EMT` (Error Management Technology) GUI, and IPMI Event viewer GUI without HP SMH (System Management Homepage). The command line interface for `EVWEB`, `EMT`, and IPMI Event viewer (`Slview`) will still be accessible.
 - HP SIM (HP Systems Insight Manager) is an optional install. However, HP recommends using the latest available version to remotely administer indications and instances available on [HP SIM](#) page.
 - Starting from HP-UX 11i v3 September 2011 release, all the products namely `ProviderSvcsBase` (PSB), `SysFaultMgmt` (System Fault Management) (SFM), the I/O Providers namely HP-UX Wbem RAIDSAs Provider, HP-UX Wbem SAS Provider, HP-UX Wbem Fibre-Channel (FC) Provider, HP-UX Wbem Direct Attached Storage (DAS) Provider must be installed together to maintain compatibility among the diagnostic products.
 - `SysFaultMgmt` (System Fault Management) (SFM) depot is available for download on the OE media and web. Starting from HP-UX 11i v3 September 2011 release, all the products namely `ProviderSvcsBase` (PSB), `SysFaultMgmt` (System Fault Management) (SFM), the I/O Providers namely HP-UX Wbem RAIDSAs Provider, HP-UX Wbem SAS Provider, HP-UX Wbem FC (Fibre-Channel) Provider, HP-UX Wbem DAS (Direct Attached Storage) Provider must be installed together to maintain compatibility among the diagnostic products.
-

On web

September 2011 web release onwards, all the HP-UX 11i v3 version of Wbem providers and Diagnostics products, are available for download on the *WbemMgmtBundle for HP-UX 11i v3* bundle page at [WbemMgmtBundle for HP-UX 11i v3](#).

NOTE: `WbemMgmtBundle` of HP is released only on the web. All the products from `WbemMgmtBundle` must be installed together. This is due to product interdependency. These products might not work if they are installed individually.

Supported browsers

Following lists the browsers supported by `SysFaultMgmt` (System Fault Management) (SFM):

- Internet explorer version 6.0 and above.
- Mozilla version 1.5 and above.

7 Known problems, issues, limitations, and workaround

This chapter explains in detail, various problems, issues, limitations, and their workaround for `SysFaultMgmt` (System Fault Management) (SFM) across various releases.

- **For Rack server**

Problem: The health status on HP SMH (System Management Homepage) will not be in synchronization with the health state on `iLO`, for the erroneous `FRU` (Field Replaceable Units) that are marked for de-configuration.

Description: The bad health status will not be reflected on the HP SMH (System Management Homepage) page, on HP Rack servers, wherein `FRU` (Field Replaceable Units) errors are found, and `SysFaultMgmt` (System Fault Management) (SFM) has marked them for de-configuration on the next reboot. This is applicable to HP SMH (System Management Homepage) property pages for processor, memory, and blade `FRU`.

Workaround: You need to check the Health Repository on `iLO`, for the latest information on the health of all the `FRU`.

- **Problem:** On multiple FAN failures, where health status change is not reflected, until `cimserver` is restarted.

Description: All `FRUs` should report every failure instances, irrespective of the number of failures in a day. Since there are multiple identical `FRUs` in a system, a second failure will not be reported, due to suppression criteria, which prevents reporting of events such as 156, 157, 158 and so on. As a result, on multiple FAN failures, until `cimserver` is restarted, the health status change is not reflected.

Workaround: On multiple FAN failures, SFM Provider Module has to be restarted to get the updated health status.

- **Problem:**

Upgrade of `SysFaultMgmt` (System Fault Management) (SFM) and `ProviderSvcsBase` (PSB) products, from prior to September 2012 release to September 2012 web release and to later release, may fail due to disk full issues, caused by Postgres data backup file.

Description:

To upgrade the earlier `SysFaultMgmt` (System Fault Management) (SFM) and `ProviderSvcsBase` (PSB) versions released before September 2012, preinstall scripts take backup for diagnostic database. The size of these database backup files can vary and are large in size, depending upon the size of the database on the systems.

This file gets created in `/var`. Installation of the products may fail due to lack of disk space in `/var`.

Workaround:

To upgrade the products released before September 2012, it is advisable to empty the diagnostic database before starting the product upgrade.

To empty diagnostic database, refer the following steps:

1. Note down the disk space under database directory.
 - **On IA:** `du -sk /var/opt/psb/db/pgsql/`
 - **On PA:** `du -sk /var/opt/sfmdb/pgsql/`
2. Gracefully shut down postmaster using the following command.
 - **On IA:** `/sbin/init.d/psbdb stop`
 - **On PA:** `/sbin/init.d/sfmdb stop`

3. Move or back up pgsq directory to a newly identified or user desired location.
 - **On IA:** `mv -if /var/opt/psb/db/pgsql <User desired location>`
 - **On PA:** `mv -if /var/opt/sfmdb/pgsql <User desired location>`
4. After moving database directory, note down the disk space under database directory.
 - **On IA:** `du -sk /var/opt/psb/db/pgsql/`
 - **On PA:** `du -sk /var/opt/sfmdb/pgsql/`
5. Start the postmaster which initializes the postgres database.
 - **On IA:** `/sbin/init.d/psbdb start`
 - **On PA:** `/sbin/init.d/sfmdb start`
6. Proceed with upgrade activity of the product.

△ CAUTION: Follow this workaround and proceed with the above mentioned steps, only if the customers do not want old event data. When you upgrade, diagnostic database is moved and cannot be viewed using diagnostic utilities (such as `EVWEB`). It cannot be added back into the original database, due to incompatibility of older PostgreSQL version with the new version.

- **Problem:**

The Field Replaceable Units (FRU) that are erroneous and marked for deconfiguration, the health status on HP SMH (System Management Homepage) will not be in synchronization with the health state on the Onboard Administrator (OA) homepage.

Description:

On HP Superdome 2, the FRU on which errors are found, and Superdome 2 Analysis Engine has marked them for deconfiguration on the next reboot, the bad health status will not be reflected on the HP SMH (System Management Homepage) page. This is applicable to HP SMH (System Management Homepage) property pages for processor, memory and blade FRUs.

Workaround:

Please check the Health Repository on the OA for the latest information on the health of all the FRUs or alternatively, the OA homepage.

- **Problem:**

Two `SysFaultMgmt` (System Fault Management) (SFM) processes are running when `SysFaultMgmt` (System Fault Management) (SFM) is upgraded . This limitation is not applicable to the following:

- Systems that have `SysFaultMgmt` (System Fault Management) (SFM) C.07.00.04.06 (March 2010) or later OE release fresh installed.
- Systems that have upgraded to `SysFaultMgmt` (System Fault Management) (SFM) C.07.00.07.01 (May 2010) or later.

Description:

When `SysFaultMgmt` (System Fault Management) (SFM) is upgraded from any version prior to C.07.00.04.06 (March 2010) release to C.07.01.06.01 (September 2010) version, some systems that have previous events in the database, the `cimprovagt` process for `SFMPProviderModule` may consume excessive amount of memory or produce a core dump. The process list may display two `cimprovagt` process for `SFMPProviderModule`. One of this process is orphan and will not monitor hardware(s).

Workaround:

Follow the steps given below before upgrading SysFaultMgmt (System Fault Management) (SFM) to C.07.01.06.01 version.

- Disable SFMProviderModule using the following command:

```
# cimprovider -dm SFMProviderModule
```

- **Problem:**

IPMI FRU calls fail when a blade with Monarch Management Processor is inserted into a different slot.

Description:

On HP Integrity BL860c i2, BL870c i2 & BL890c i2 Server Blades system, when blades are moved across different slots in an enclosure, the inventory shown by enumerating HP_Blade or the blade property page on HP SMH (System Management Homepage) does not reflect the correct set of blades on the system.

Workaround:

This problem has the following two solutions:

- Use the Onboard Administrator to determine the total number of blades on the system.
- Disable SFMProviderModule using the `cimprovider -dm SFMProviderModule` command. Run `mv /var/opt/sfm/data/sdrcache /tmp/sdrcache` command to move the sdrcache file and enable SFMProviderModule `cimprovider -em SFMProviderModule`

- **Problem:**

CIM_AlertIndication.NetworkAddresses does not contain all assigned IP addresses.

Description:

Indication delivered by SysFaultMgmt (System Fault Management) (SFM) does not display all the IP addresses in NetworkAddresses property of CIM_AlertIndication class when a new IP address is configured or an old IP address is changed at runtime.

Workaround:

To reflect newly configured IP Addresses in SysFaultMgmt (System Fault Management) (SFM) Indication, disable and enable SFMProviderModule using the following commands

```
cimprovider -dm SFMProviderModule  
cimprovider -em SFMProviderModule
```

- **Problem:**

The firmware version of Management Processor firmware (MFW), given by MPPProvider and FirmwareRevisionProvider on HP Integrity rx2800 i2 server may be incorrect.

Description:

The revision number (third field in ':' separated version string) may be incorrect.

Workaround:

Run `sysrev` command from MP to get the correct MFW version.

- **Problem:**

The WBEM events do not get delivered to EVWEB.

Description:

In an exceptional scenario, due to extreme stress condition, the database component can get into a deadlock. In such cases, no events can be stored to database and hence EVWEB cannot show any WBEM indication.

Workaround:

Manually kill SFMProviderModule process and restart SFMProviderModule using the following command:

```
cimprovider -em SFMProviderModule
```

- **Problem:**

After OE install, SysFaultMgmt (System Fault Management) (SFM) generates harmless warning messages in the install log file.

Description:

The following messages are generated:

```
PGS04838: Warning: Class HP_CommonRecordLog already exists in the repository  
PGS04838: Warning: Class HP_CommonLogRecord already exists in the repository
```

This message is written to the log when a module is registered to the class ahead of SysFaultMgmt (System Fault Management) (SFM). This is a warning message which indicates that the class is already registered.

```
cron may not be running - call your system administrator  
warning: commands will be executed using /usr/bin/sh
```

The message cron may not be running is logged if the cron daemon does not run during the install. The warning commands will be executed using /usr/bin/sh occurs if the default login shell is not defined POSIX shell /usr/bin/sh. This is a warning from cron that the POSIX shell is used to execute commands in the crontab file. If the login shell is set to /usr/bin/sh in the /etc/passwd file, this error is not logged.

Workaround:

You can safely ignore both these warning messages.

- **Problem:**

The second LAN interface configured on a server is not accessible for web browsing.

Description:

When a second LAN interface was configured on a server using a private subnet used only for cluster heartbeat traffic, Launch SMH button got the second LAN interface's address but was not accessible for web browsing.

Workaround:

Once the server is turned, disable the second LAN, restart SFMProviderModule, and configure the second LAN card.

Repeat these steps, if you need to restart cimserver or SFMProviderModule.

After configuring, do not restart the server, cimserver, and SFM Provider module.

In the case of a multi LAN environment configuration, do not restart any of the following:

- SFMProviderModule
- cimserver
- Server

- **Problem:**

The events and user defined subscriptions (created using EVWEB) are lost when diagnostic products are upgraded on a DRD cloned disk.

Description:

Prior to September 2012 release version of the diagnostics product, the postgres 7.4.2 version was supported. However version 8.4.8 is shipped from September 2012 release. Due to the missing data compatibility between PostgreSQL version 7.4.2 (prior to September 2012) and 8.4.8 (September 2012 release or later), when the diagnostics products are upgraded from prior to September 2012 release to September 2012 web release and later, the postgres data needs to be migrated to 8.4.8 format.

Data migration involves backup in 7.4.2 version using `pg_dumpall` and restore in 8.4.8 version using the `psql` operations. Both of these operations requires a running postgres service. But in the DRD environment there is a limitation that no service can be run on the cloned disk when products are either installed or upgraded.

This limits diagnostics product upgrade steps from taking the backup of the postgres 7.4.2 data.

As a result, the data such as events, error records, and subscriptions (created using `EVWEB`) is lost during such circumstances.

Workaround:

You can select any of the following two alternatives:

1. To install the product on the DRD cloned disk as a normal upgrade scenario. The scenario will be same as fresh installation and user may refer to `event.log` for historical event data. Also, the user has to recreate the user defined subscriptions (created using `EVWEB`) at the end of the installation.
2. To have a seamless migration of the data from postgres 7.4.2 version. In this case, the user is required to perform the manual steps listed in the *Installation scenarios of Postgres 8.4.8* guide at www.hp.com/go/hpux-diagnostics-sfm-docs.

- **Problem:**

The `slview` does not provide details of IPMI events on Itanium 9500 based servers.

Description:

The `slview` provides the ability to parse IPMI events logged in `/var/stm/logs/os/` file to get details of individual events. On the `rx2800 i4`, `HP Integrity BL860c i4`, `BL870c i4`, and `BL890c i4`, the IPMI event details cannot be parsed by `slview` with default parameters through command line or GUI interface provided through HP SMH (System Management Homepage).

Workaround:

To view the IPMI events, follow the steps given below:

1. Specify the `"-p"` option with `"0"`.
For example, `slview -d -f /var/stm/logs/os/fp1.log.xx -p 0`
2. On HP SMH (System Management Homepage), navigate to the Tools>>IPMI Event Viewer >> Event Viewer screen, and select `"0"` for the `"Platform:"` fields instead of the default value.

NOTE: The properties such as Description, Cause, Action, Alert Level, and Logged by fields of the output of `slview` using the `"-p"` option can be different from the actual values for the `rx2800 i4`, `HP Integrity BL860c i4`, `BL870c i4`, and `BL890c i4`. It is recommended to refer to the events generated by `SysFaultMgmt` using the `evweb eventviewer` command or the `event.log` file for details of these events.

8 Product structure

sysFaultMgmt (System Fault Management) (SFM) product, consisting of sysFaultMgmt (System Fault Management) (SFM) providers and EVWEB, is installed as part of the WBEMMgmtBundle.

Following are the commands you must use to obtain the bundle, product, subproduct, and the fileset information about sysFaultMgmt products in WBEMMgmtBundle. The below examples are generated from HP 9000 and Integrity systems respectively:

HP 9000

Bundle

```
# swlist -l bundle <SysFaultMgmt Depot Location>
```

sysFaultMgmt	C.07.14.03.01	HPUX System Fault Management
--------------	---------------	------------------------------

Product(s)

```
# swlist -l product <SysFaultMgmt Depot Location>
```

# sysFaultMgmt	C.07.14.03.01	HPUX System Fault Management
sysFaultMgmt.SFM-CORE	C.07.14.03.01	HPUX System Fault Management
sysFaultMgmt.SFMDB	C.07.14.03.01	HP System Management Database (SFMDB)

Subproduct(s)

```
# swlist -l subproduct <SysFaultMgmt Depot Location>
```

# sysFaultMgmt	C.07.14.03.01	HPUX System Fault Management
# sysFaultMgmt.SFM-CORE	C.07.14.03.01	HPUX System Fault Management
sysFaultMgmt.SFM-CORE.ERROR-MGMT	Error Management Technology	
sysFaultMgmt.SFM-CORE.EVMCIM	EVMCIM	
sysFaultMgmt.SFM-CORE.EVWEB	EVWEB	
sysFaultMgmt.SFM-CORE.FMD-PROVIDER	FMD-PROVIDER	
sysFaultMgmt.SFM-CORE.GS	GS	
sysFaultMgmt.SFM-CORE.HS-PROVIDER	HS-PROVIDER	
sysFaultMgmt.SFM-CORE.SFM-HAS	SFM-HAS	
sysFaultMgmt.SFM-CORE.SFM-PROPPAGE	SFM PROPERTY PAGE	
sysFaultMgmt.SFM-CORE.SFM-PROVIDER	SFM-PROVIDER	
sysFaultMgmt.SFMDB	C.07.14.03.01	HP System Management Database (SFMDB)

Fileset(s)

```
# swlist -l fileset <SysFaultMgmt Depot Location>
```

# SysFaultMgmt	C.07.14.03.01	HPUX System Fault Management
# SysFaultMgmt.SFM-CORE	C.07.14.03.01	HPUX System Fault Management
SysFaultMgmt.SFM-CORE.CTR_PRO_COMM	C.07.14.03.01	Control Provider Common Fileset
SysFaultMgmt.SFM-CORE.CTR_PRO_COREPA	C.07.14.03.01	Control Provider Platform Specific Fileset
SysFaultMgmt.SFM-CORE.EMT_COREPA	C.07.14.03.01	EMT CORE PA
SysFaultMgmt.SFM-CORE.EMT_DOC	C.07.14.03.01	EMT Online help fileset
SysFaultMgmt.SFM-CORE.EMT_MAN	C.07.14.03.01	EMT Manpages fileset
SysFaultMgmt.SFM-CORE.EVM_PRO_COMM	C.07.14.03.01	EVM CIM Indication Provider Common Fileset
SysFaultMgmt.SFM-CORE.EVM_PRO_COREPA	C.07.14.03.01	EVM CIM Indication Provider Platform Specific Fileset
SysFaultMgmt.SFM-CORE.EVWEB_COMM	C.07.14.03.01	Event Manager (EVWEB) Common components
SysFaultMgmt.SFM-CORE.EVWEB_COREPA	C.07.14.03.01	EVWEB core platform specific fileset
SysFaultMgmt.SFM-CORE.EVWEB_DOC	C.07.14.03.01	EVWEB Online help fileset
SysFaultMgmt.SFM-CORE.EVWEB_GUI_COMM	C.07.14.03.01	EVWEB GUI common fileset
SysFaultMgmt.SFM-CORE.EVWEB_GUI_PA	C.07.14.03.01	EVWEB GUI platform specific fileset
SysFaultMgmt.SFM-CORE.EVWEB_MAN	C.07.14.03.01	EVWEB Manpages fileset
SysFaultMgmt.SFM-CORE.FMD_PRO_COMM	C.07.14.03.01	Filter Metadata Instance Provider Common Fileset
SysFaultMgmt.SFM-CORE.FMD_PRO_COREPA	C.07.14.03.01	Filter Metadata Instance Provider Platform Specific Fileset
SysFaultMgmt.SFM-CORE.GS_COMM	C.07.14.03.01	General Services Common Fileset
SysFaultMgmt.SFM-CORE.GS_COREPA	C.07.14.03.01	General Services Platform Specific Fileset
SysFaultMgmt.SFM-CORE.HAS-PA	C.07.14.03.01	Hardware Access Services PA
SysFaultMgmt.SFM-CORE.HS_PRO_COMM	C.07.14.03.01	HealthState Instance Provider Common Fileset
SysFaultMgmt.SFM-CORE.HS_PRO_COREPA	C.07.14.03.01	HealthState Instance Provider Platform Specific Fileset
SysFaultMgmt.SFM-CORE.MISC_COMM	C.07.14.03.01	MISC Common Fileset
SysFaultMgmt.SFM-CORE.MISC_COREPA	C.07.14.03.01	MISC Platform Specific Fileset
SysFaultMgmt.SFM-CORE.MISC_TOOLS	C.07.14.03.01	MISC Tools Fileset
SysFaultMgmt.SFM-CORE.SFMUI-PROPPAGE	C.07.14.03.01	SFM property pages fileset
SysFaultMgmt.SFM-CORE.SFM_MAN	C.07.14.03.01	SFM Manpages fileset
SysFaultMgmt.SFM-CORE.SFM_PRO_COMM	C.07.14.03.01	SysFaultMgmt Provider Module COMMON

SysFaultMgmt.SFM-CORE.SFM_PRO_PA	C.07.14.03.01	SysFaultMgmt Provider Module PA
# SysFaultMgmt.SFMDB	C.07.14.03.01	HP System Management Database (SFMDB)
SysFaultMgmt.SFMDB.SMPGSQL-DOC	C.07.14.03.01	PostgreSQL (SFMDB) Documentation Files
SysFaultMgmt.SFMDB.SMPGSQL-INC	C.07.14.03.01	PostgreSQL (SFMDB) Header Files
SysFaultMgmt.SFMDB.SMPGSQL-LIB	C.07.14.03.01	PostgreSQL (SFMDB) Library Files (Architecture dependent)
SysFaultMgmt.SFMDB.SMPGSQL-MAN	C.07.14.03.01	PostgreSQL (SFMDB) Manual Pages
SysFaultMgmt.SFMDB.SMPGSQL-RUN	C.07.14.03.01	PostgreSQL (SFMDB) Executable Files (Architecture dependent)
SysFaultMgmt.SFMDB.SMPGSQL-SHA	C.07.14.03.01	PostgreSQL (SFMDB) Share File
SysFaultMgmt.SFMDB.SMPGSQL-SRC	C.07.14.03.01	PostgreSQL (SFMDB) Source Files

Integrity Systems

Bundle

```
# swlist -l bundle <SysFaultMgmt Depot Location>
```

SysFaultMgmt	C.07.14.03.01	HPUX System Fault Management
--------------	---------------	------------------------------

Product(s)

```
# swlist -l product <SysFaultMgmt Depot Location>
```

# SysFaultMgmt	C.07.14.03.01	HPUX System Fault Management
SysFaultMgmt.SFM-CORE	C.07.14.03.01	HPUX System Fault Management

Subproduct(s)

```
# swlist -l subproduct <SysFaultMgmt Depot Location>
```

# SysFaultMgmt	C.07.14.03.01	HPUX System Fault Management
# SysFaultMgmt.SFM-CORE	C.07.14.03.01	HPUX System Fault Management
SysFaultMgmt.SFM-CORE.ERROR-MGMT	Error Management Technology	
SysFaultMgmt.SFM-CORE.EVMCIM	EVMCIM	
SysFaultMgmt.SFM-CORE.EVWEB	EVWEB	
SysFaultMgmt.SFM-CORE.FMD-PROVIDER	FMD-PROVIDER	
SysFaultMgmt.SFM-CORE.GS	GS	
SysFaultMgmt.SFM-CORE.HEALTH-TEST	SFM HEALTH TEST	
SysFaultMgmt.SFM-CORE.HS-PROVIDER	HS-PROVIDER	
SysFaultMgmt.SFM-CORE.SFM-HAS	SFM-HAS	

SysFaultMgmt.SFM-CORE.SFM-PROPPAGE	SFM PROPERTY PAGE	
SysFaultMgmt.SFM-CORE.SFM-PROVIDER	SFM-PROVIDER	

Fileset(s)

```
# swlist -l fileset <SysFaultMgmt Depot Location>
```

# SysFaultMgmt	C.07.14.03.01	HPUX System Fault Management
# SysFaultMgmt.SFM-CORE	C.07.14.03.01	HPUX System Fault Management
SysFaultMgmt.SFM-CORE.CPU-TEST-IA	C.07.14.03.01	SFM PROCESSOR TEST fileset
SysFaultMgmt.SFM-CORE.CTR_PRO_COMM	C.07.14.03.01	Control Provider Common Fileset
SysFaultMgmt.SFM-CORE.CTR_PRO_COREIA	C.07.14.03.01	Control Provider Platform Specific Fileset
SysFaultMgmt.SFM-CORE.EMT_COREIA	C.07.14.03.01	EMT CORE IA
SysFaultMgmt.SFM-CORE.EMT_DOC	C.07.14.03.01	EMT Online help fileset
SysFaultMgmt.SFM-CORE.EMT_MAN	C.07.14.03.01	EMT Manpages fileset
SysFaultMgmt.SFM-CORE.EVM_PRO_COMM	C.07.14.03.01	EVM CIM Indication Provider Common Fileset
SysFaultMgmt.SFM-CORE.EVM_PRO_COREIA	C.07.14.03.01	EVM CIM Indication Provider Platform Specific Fileset
SysFaultMgmt.SFM-CORE.EVWEB_COMM	C.07.14.03.01	Event Manager (EVWEB) Common components
SysFaultMgmt.SFM-CORE.EVWEB_COREIA	C.07.14.03.01	EVWEB core platform specific fileset
SysFaultMgmt.SFM-CORE.EVWEB_DOC	C.07.14.03.01	EVWEB Online help fileset
SysFaultMgmt.SFM-CORE.EVWEB_GUI_COMM	C.07.14.03.01	EVWEB GUI common fileset
SysFaultMgmt.SFM-CORE.EVWEB_GUI_IA	C.07.14.03.01	EVWEB GUI platform specific fileset
SysFaultMgmt.SFM-CORE.EVWEB_MAN	C.07.14.03.01	EVWEB Manpages fileset
SysFaultMgmt.SFM-CORE.FMD_PRO_COMM	C.07.14.03.01	Filter Metadata Instance Provider Common Fileset
SysFaultMgmt.SFM-CORE.FMD_PRO_COREIA	C.07.14.03.01	Filter Metadata Instance Provider Platform Specific Fileset
SysFaultMgmt.SFM-CORE.GS_COMM	C.07.14.03.01	General Services Common Fileset
SysFaultMgmt.SFM-CORE.GS_COREIA	C.07.14.03.01	General Services Platform Specific Fileset
SysFaultMgmt.SFM-CORE.HAS-IA	C.07.14.03.01	Hardware Access Services IA
SysFaultMgmt.SFM-CORE.HS_PRO_COMM	C.07.14.03.01	HealthState Instance Provider Common Fileset
SysFaultMgmt.SFM-CORE.HS_PRO_COREIA	C.07.14.03.01	HealthState Instance Provider Platform Specific Fileset
SysFaultMgmt.SFM-CORE.MEM-TEST-IA	C.07.14.03.01	SFM MEMORY TEST fileset
SysFaultMgmt.SFM-CORE.MISC_COMM	C.07.14.03.01	MISC Common Fileset

SysFaultMgmt.SFM-CORE.MISC_COREIA	C.07.14.03.01	MISC Platform Specific Fileset
SysFaultMgmt.SFM-CORE.MISC_TOOLS	C.07.14.03.01	MISC Tools Fileset
SysFaultMgmt.SFM-CORE.SFMUI-PROPPAGE	C.07.14.03.01	SFM property pages fileset
SysFaultMgmt.SFM-CORE.SFMUI-PROPPAGE_IA	C.07.14.03.01	SFM property pages fileset IA
SysFaultMgmt.SFM-CORE.SFM_MAN	C.07.14.03.01	SFM Manpages fileset
SysFaultMgmt.SFM-CORE.SFM_PRO_COMM	C.07.14.03.01	SysFaultMgmt Provider Module COMMON
SysFaultMgmt.SFM-CORE.SFM_PRO_IA	C.07.14.03.01	SysFaultMgmt Provider Module IA

9 Product documentation

For more information on `sysFaultMgmt` (System Fault Management) (SFM), see the following documents at: www.hp.com/go/hpux-diagnostics-sfm-docs.

- *Frequently Asked Questions (FAQs)*
- *Administrator's and User's Guide for `sysFaultMgmt` (System Fault Management) (SFM) HP-UX 11i v3*
- *`sysFaultMgmt` (System Fault Management) (SFM) Provider Data Sheets*
- *`sysFaultMgmt` (System Fault Management) (SFM) Tables of Versions*
- *`sysFaultMgmt` (System Fault Management) (SFM) Patch Descriptions*
- *`sysFaultMgmt` (System Fault Management) (SFM) Event Descriptions*

Software and documentation availability in native languages

`sysFaultMgmt` (System Fault Management) (SFM) software and documents are available only in the English language.

Reporting defects

You can report defects related to `sysFaultMgmt` (System Fault Management) (SFM) by filing a request on `QuIX`. The name of the project is `sysFaultMgmt`. If you do not have access to `QuIX`, contact your local HP representative to file a defect on your behalf.

10 Documentation feedback

HP welcomes your feedback. HP is committed to providing documentation that meets your needs. To help us improve the documentation, send any errors, suggestions, or comments to Documentation Feedback (docsfeedback@hp.com). Include the document title and part number, version number, or the URL when submitting your feedback. All submissions become the property of HP.

More on SysFaultMgmt (System Fault Management) (SFM) documentation

For more information on documentation and other manuals of Diagnostics, see [Diagnostics home](#).

For more information on documentation and other manuals of SysFaultMgmt (System Fault Management) (SFM), see [HP-UX System Fault Management \(SFM\) Software](#).

Support policy for HP-UX

For more information about support policy for HP-UX, see [HP-UX support policy](#).