

Specification Update

**Intel® Modular Server System MFSYS25V2,
Intel® Modular Server System MFSYS25,
Intel® Modular Server System MFSYS35,
Intel® Compute Module MFS5000SI,
Intel® Compute Module MFS5520VI**

Intel Order Number E29976-041

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Enterprise Platforms and Services Division

Revision History

| Date | Modifications |
|----------------|--|
| November 2007 | Initial release. |
| December 2007 | Addition of erratum #14 |
| January 2008 | Addition of documentation change #2 & Erratum #15, Erratum 8 & 10 Moved to Fixed |
| May 2008 | Updated existing erratum and added new erratum |
| August 2008 | Updated existing erratum |
| October 2008 | Updated existing erratum and product scope |
| November 2008 | Updated existing erratum and added new erratum |
| December 2008 | Updated existing erratum and added new erratum |
| January 2009 | Updated existing erratum and added new erratum |
| February 2009 | Added MFSYS35 to Spec Update. Updated existing erratum and added new erratum |
| March 2009 | Updated existing erratum and added new erratum |
| April 2009 | Updated existing erratum and added new erratum |
| May 2009 | Added MFS5520VI to Spec Update. Updated existing erratum and added new erratum. |
| June 2009 | Updated existing erratum and added new erratum |
| July 2009 | Addition of erratum #35,36 and 37 and update documentation change |
| August 2009 | Updated product scope. |
| September 2009 | Addition of erratum #38 and 39 |
| October 2009 | Updated existing erratum. |
| November 2009 | Updated existing erratum. |
| December 2009 | Updated existing erratum and added new erratum #40 and 41. |
| January 2010 | Updated product scope, existing erratum and added new erratum #42. |
| February 2010 | Updated existing erratum. |
| March 2010 | Add new erratum #43 and #44. |
| April 2010 | No Update |
| May 2010 | Add new documentation change #5 and new erratum#45. |
| June 2010 | Updated erratum #40, added new erratum#46. |
| Jul 2010 | Add new erratum #47, #48 and #49. |
| August 2010 | Add new erratum #50 |
| September 2010 | Updated Product Scope, add new erratum #51 |
| October 2010 | Add new erratum #52 |
| November 2010 | Add new erratum #53, #54 and #55 |
| December 2010 | Add new erratum #56 |
| January 2011 | Updated product scope, updated erratum #52. |
| March 2011 | Updated erratum #50 |
| April 2011 | No Update |
| May 2011 | Add new erratum #57 |
| June 2011 | Updated erratum #55, #57 and added new erratum #58 |
| July 2011 | Add new erratum #59 |
| August 2011 | Add new erratum #60 |
| September 2011 | Add new erratum #61 |

| Date | Modifications |
|--------------|------------------------|
| October 2011 | Add new erratum #62-81 |

Disclaimers

The Server System Specification Update may contain design defects or errors known as errata that may cause the product to deviate from the published specifications. Current characterized errata are documented in this Specification Update.

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Preface

This document is an update to the specifications contained in the *Intel® Modular Server System MFSYS25/MFSYS35 Technical Product Specification* and the *Intel® Compute Module MFS5000SI Technical Product Specification*. It is intended for hardware system manufacturers and software developers of applications, operating systems, or tools. It will contain specification changes, specification clarifications, errata, and document changes.

Refer to the *Intel® Xeon® Processor 5100 Series and Intel® Xeon® Processor 5200 Series and Intel® Xeon® Processor 5300 Series and Intel® Xeon® Processor 5400 Series Specification Update* for specification updates on processors. Items contained in the *Intel® Xeon® Processor 5100 Series and Intel® Xeon® Processor 5200 Series and Intel® Xeon® Processor 5300 Series and Intel® Xeon® Processor 5400 Series Specification Update and Intel® Xeon® Processor 5500 Series Specification Update and Intel® Xeon® Processor 5600 Series Specification Update* that either do not apply to the product or have been worked around are noted in this document. Otherwise, it should be assumed that any processor errata for a given stepping are applicable to the Printed Board Assembly (PBA) revisions(s) associated with that stepping.

This documentation communicates the following types of changes:

Specification Changes are modifications to the current published specifications for Intel® server boards. These changes will be incorporated in the next release of the specifications. Specification changes include typos, errors, or omissions from the current published specifications. These changes will be incorporated in the next release of the documents.

Specification Clarifications describe a specification in greater detail or further highlight a specification's impact to a complex design situation. These clarifications will be incorporated in the next release of the documents.

Errata are design defects or errors. Errata may cause the server board behavior to deviate from published specifications. Hardware and software designed to be used with any given processor stepping must assume that all errata documented for that processor stepping are present on all devices.

Product Scope

Below are the specific boards, BIOS and components covered by this update.

1. Product Code: MFS5000SI – Intel® Compute Module MFS5000SI

| MM # | Server TA # | Server PBA # | BIOS | BMC | Change Description (PCN #) |
|--------|-------------|--------------|-----------------------|--------|----------------------------|
| 892778 | D91952-003 | D70726-404 | SB5000.86B.10.00.0030 | 13.8 | Product Launch |
| | D91952-004 | D70726-405 | SB5000.86B.10.00.0043 | 1.30.3 | PCN 108333-00 |
| 900409 | D91952-007 | D70726-502 | SB5000.86B.10.10.0048 | 1.36.4 | PCN 109593-00 |

2. Product Code: MFS5000SIB – Intel® Compute Module MFS5000SI – 3 Pack

| MM # | Server TA # | Baseboard PBA # | BIOS | BMC | Change Description (PCN #) |
|--------|-------------|-----------------|-----------------------|--------|----------------------------|
| 892856 | E19099-001 | D70726-404 | SB5000.86B.10.00.0030 | 13.8 | Product Launch |
| | E19099-002 | D70726-405 | SB5000.86B.10.00.0043 | 1.30.3 | PCN 108333-00 |
| 900410 | E19099-007 | D70726-502 | SB5000.86B.10.10.0048 | 1.36.4 | PCN 109539-00 |

3. Product Code: MFS5520VI – Intel® Compute Module MFS5520VI

| MM # | Server TA # | Baseboard PBA # | BIOS | BMC | Change Description (PCN #) |
|--------|-------------|-----------------|----------------------|--------|----------------------------|
| 901369 | E42643-005 | E41515-402 | S5500.86B.01.10.0034 | 1.15.1 | Product Launch |
| 901369 | E42643-007 | E41515-404 | S5500.86B.01.10.0038 | 1.16.2 | PCN 109592-00 |

4. Product Code: MFS5520VIR – Intel® Compute Module MFS5520VIR

| MM # | Server TA # | Baseboard PBA # | BIOS | BMC | Change Description (PCN #) |
|--------|-------------|-----------------|----------------------|--------|----------------------------|
| 905716 | E42643-005 | E41515-405 | S5500.86B.01.10.0043 | 1.18.2 | PCN 109821-00 |
| 905716 | E87653-002 | E41515-406 | S5500.86B.01.10.0048 | 1.19.2 | PCN 109917-00 |

5. Product Code: MFS5520VIB – Intel® Compute Module MFS5520VI – 3 Pack

| MM # | Server TA # | Baseboard PBA # | BIOS | BMC | Change Description (PCN #) |
|--------|-------------|-----------------|----------------------|--------|----------------------------|
| 901669 | E54314-002 | E41515-402 | S5500.86B.01.10.0034 | 1.15.1 | Product Launch |
| 901669 | E42643-007 | E41515-404 | S5500.86B.01.10.0038 | 1.16.2 | PCN 109592-00 |

6. Product Code: MFS5520VIBR – Intel® Compute Module MFS5520VIR – 3 Pack

| MM # | Server TA # | Baseboard PBA # | BIOS | BMC | Change Description (PCN #) |
|--------|-------------|-----------------|----------------------|--------|----------------------------|
| 905717 | E54314-002 | E41515-405 | S5500.86B.01.10.0043 | 1.18.2 | PCN 109821-00 |
| 905717 | E87663-002 | E41515-406 | S5500.86B.01.10.0048 | 1.19.2 | PCN 109917-00 |

7. Product Code: MFSYS25 – Intel® Modular Server System MFSYS25

| MM # | System TA # | Midplane PBA # | CMM PBA # | ESM PBA # | SCM PBA # | HDD Bay PBA# | Interposer PBA# | PS TA # | Change Description (PCN #) |
|--------|-------------|----------------|------------|------------|------------|--------------|-----------------|------------|----------------------------|
| 892235 | D91400-003 | D70484-403 | D70735-403 | D70739-404 | D70737-404 | D70727-303 | D70481-403 | D73299-005 | Product Launch |
| | D91400-004 | D70484-403 | D70735-403 | D70739-404 | D70737-404 | D70727-303 | D70481-403 | D73299-005 | PCN 108305-01 |
| | D91400-005 | D70484-404 | D70735-404 | D70739-404 | D70737-404 | D70727-303 | D70481-404 | D73299-005 | |
| 902318 | D91400-009 | D70484-408 | D70735-406 | D70739-405 | D70737-409 | D70727-303 | D70481-406 | D73299-007 | PCN 109490-01 |
| | D91400-010 | D70484-409 | D70735-407 | D70739-405 | D70737-410 | D70727-303 | D70481-407 | D73299-008 | PCN 109774-01 |

8. Product Code: MFSYS35 – Intel® Modular Server System MFSYS35

| MM # | System TA # | Midplane PBA # | CMM PBA # | ESM PBA # | SCM PBA # | HDD Bay PBA# | Interposer PBA# | PS TA # | Change Description (PCN #) |
|--------|-------------|----------------|------------|------------|------------|--------------|-----------------|------------|----------------------------|
| 892300 | D91403-004 | D70484-407 | D70735-404 | D70739-405 | D70737-404 | D91372-301 | D91371-301 | D73299-005 | Product Launch |
| | D91403-006 | D70484-408 | D70735-404 | D70739-405 | D70737-404 | D91372-303 | D91371-301 | D73299-005 | PCN 109490-01 |
| | D91403-007 | D70484-409 | D70735-407 | D70739-405 | D70737-410 | D91372-304 | D91371-301 | D73299-005 | PCN 109774-01 |

9. Product Code: MFSYS25V2 – Intel® Modular Server System MFSYS25V2

| MM # | System TA # | Midplane2 PBA # | CMM2 PBA # | ESM PBA # | SCM PBA # | HDD Bay PBA# | Interposer PBA# | PS TA # | Change Description (PCN #) |
|--------|-------------|-----------------|------------|------------|------------|--------------|-----------------|------------|----------------------------|
| 910774 | G18812-001 | G18194-409 | E91057-302 | D70739-406 | D70737-502 | D70727-303 | D70481-407 | D73299-008 | Product Launch |

10. Product Code: AXXSCM3S – Intel® Storage Controller

| MM # | Module TA # | Baseboard PBA # | FW | Change Description (PCN #) |
|--------|-------------|-----------------|-------------|----------------------------|
| 891831 | E15895-002 | D70737-404 | 2.91.140.1 | Product Launch |
| | E15895-003 | D70737-405 | 2.91.140.5 | PCN 108362-01 |
| | E15895-006 | D70737-410 | 3.4.0140.08 | PCN 109774-01 |

11. Product Code: AXXSW1GB – Intel® Gigabit Ethernet Switch AXXSW1GB

| MM # | Module TA # | Baseboard PBA # | FW | Change Description (PCN #) |
|--------|-------------|-----------------|--------------------|----------------------------|
| 891842 | E16069-002 | D91241-002 | 1.0.0.6 / 1.0.0.25 | Product Launch |
| | E16069-002 | D91241-002 | 1.0.0.6 / 1.0.0.27 | FW Update |

12. Product Code: MFCMM – Intel® Management Module

| MM # | Module TA # | Baseboard PBA # | CMM GUI | Change Description (PCN #) |
|--------|-------------|-----------------|------------------------|----------------------------|
| 891834 | E16293-002 | D70735-403 | 1.0.100.10012007.7372 | Product Launch |
| | E16293-003 | D70735-404 | 1.3.100.20080527.11328 | |
| | E16293-006 | D70735-406 | 5.5.100.20091202.19584 | PCN 109774-01 |

13. Product Code: MFCMM2 – Intel® Management Module 2

| MM # | Module TA # | Baseboard PBA # | CMM GUI | Change Description (PCN #) |
|--------|-------------|-----------------|-------------------------|----------------------------|
| 910036 | E98065-005 | E91057-302 | 10.1.100.20101015.23981 | Product Launch |

14. Product Code: AXXPSU – 1000W Power Supply

| MM # | Module TA # | Baseboard PBA # | Change Description (PCN #) |
|--------|-------------|-----------------|----------------------------|
| 891843 | E14835-02 | D73299-005 | Product Launch |
| 902463 | E14835-004 | D73299-003 | PCN 109736-00 |

15. Product Code: MFMIDPLANE – Intel® Modular Server System MFSYS25 –
Midplane Board

| MM # | Baseboard TA # | Baseboard PBA # | Change Description (PCN #) |
|--------|----------------|-----------------|----------------------------|
| 891832 | E19078-001 | D70484-403 | Product Launch |
| | E19078-002 | D70484-404 | PCN 108362-01 |
| 899916 | E19078-004 | D70484-408 | PCN 109490-01 |
| | E19078-005 | D70484-409 | PCN 109774-01 |

16. Product Code: MFMIDPLANE – Intel® Modular Server System MFSYS35 –
Midplane Board

| MM # | Baseboard TA # | Baseboard PBA # | Change Description (PCN #) |
|--------|----------------|-----------------|----------------------------|
| 899916 | E19078-003 | D70484-407 | Product Launch |
| | E19078-004 | D70484-408 | PCN 109490-01 |
| | E19078-005 | D70484-409 | PCN 109774-01 |

17. Product Code: MFMIDPLANE2 – Intel® Modular Server System
MFSYS25V2 – Midplane Board

| MM # | Baseboard TA # | Baseboard PBA # | Change Description (PCN #) |
|--------|----------------|-----------------|----------------------------|
| 910888 | G18809-001 | G18194-409 | Product Launch |

18. Product Code: AXXGBIOMEZ – Intel® Compute Module MFS5000SI – Dual Gigabit Ethernet Expansion Card

| MM # | Board TA # | Board PBA # | Change Description (PCN #) |
|--------|------------|-------------|----------------------------|
| 891844 | E15888-002 | D70465-302 | Product Launch |
| | E15888-002 | D70465-303 | |

19. Product Code: AXXGBIOMEZV – Intel® Compute Module MFS5520VI – Dual Gigabit Ethernet Expansion Card

| MM # | Board TA # | Board PBA # | Change Description (PCN #) |
|--------|------------|-------------|----------------------------|
| 901362 | E42655-005 | E41517-301 | Product Launch |

Summary Tables of Changes

The following tables indicate the errata and the document changes that apply to the Specification Update. Intel intends to fix some of the errata in a future stepping of components, and to account for the other outstanding issues through documentation or specification changes as noted. The tables use the following notations:

Doc: Intel intends to update the appropriate documentation in a future revision.

Fix: Intel intends to fix this erratum in the future.

Fixed: This erratum has been previously fixed.

No Fix: There are no plans to fix this erratum.

Shaded: This erratum is either new or has been modified from the previous specification update.

Table 1. Errata Summary

| No. | Plans | Description of Errata |
|-----|--------|--|
| 1. | No Fix | Intel® Compute Module MFS5000SI NIC/Activity LEDs do not display a link status |
| 2. | No Fix | Remote floppy is not supported |
| 3. | Fixed | 1024x768 Resolution with color depth set to thousands of colors not supported under Red Hat* Enterprise Linux 5.0 64-bit |
| 4. | No Fix | NIC Utility <code>dcreate.exe</code> on MFS500SI -003 Resource CD incomplete |
| 5. | Fixed | Event Log may report SMI Timeout Assertion after server power button is pressed |
| 6. | No Fix | User is not able to configure different responses to pressing the Server Power button in Microsoft Windows 2008* Enterprise Server Edition. |
| 7. | Fixed | Dual Intel® Storage Controller configuration not yet supported in the Intel® Modular Server System MFSYS25 (see details below for specific operating system support) |
| 8. | Fixed | System Fault LED does not come on if smart devices (SCMs, ESMs, etc.) are completely non-functional |
| 9. | Fix | Deleting an existing assigned virtual drive may result in GUI action failure |
| 10. | Fixed | Certain Non-critical Events logged as Critical in GUI |
| 11. | Fixed | System Fault LED does not turn on for all critical events |
| 12. | Fix | Email Alerting not enabled by default for three Critical Events |
| 13. | No Fix | Removing/Inserting USB devices during BIOS POST or in EFI may cause unexpected system behavior |
| 14. | Fixed | Simultaneous Remote KVM installs of OS or applications will not successfully complete |
| 15. | No Fix | Relative and Absolute KVM Mouse Mode not Supported on all Operating System's |
| 16. | Fix | Compute modules with RAID 6 Virtual Drives Experiencing Slow / No Response |
| 17. | Fixed | CONFIRM dialog box action not required to complete requested action |
| 18. | Fixed | Pressing F1 during a KVM session will bring up the local KVM console help not the remote system application help. |

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| 19. | Fixed | Ethernet Switch Module will fail to automatically update in an operational chassis |
| 20. | Fixed | Microsoft Windows Server 2003* cluster support not available |
| 21. | No Fix | SuSE Enterprise Linux 10* U1 cluster node shown as running after being physically removed from chassis after failure |
| 22. | Fixed | Fujitsu 146GB, 2.5" SAS hard drive takes longer than expected to come on line after a hot insertion |
| 23. | Fix | BIOS R0048 Does Not Support Mixed Stepping E-0 and C-0 Processors |
| 24. | Fixed | In Windows Enterprise Server 2008* Cluster failover testing, it has been observed that cluster nodes may lose access to the clustered shared LUN drives |
| 25. | Fix | The CMM is not able to provide management information for the power supply when an AXXPSU at revision D73299-006 is installed in a system chassis. |
| 26. | Fixed | The Network Time Server setting on the date/time web page of the Intel® Modular Server Control GUI does not allow selection of different time zones. |
| 27. | No Fix | SuSE* Linux Enterprise Server 10 U1 will mark the OS LUN as read only if a SCM affinity change is made while the SUSE* Linux Enterprise Server 10 operating system is running or booted. |
| 28. | Fixed | Chassis fault LED does not illuminate after removing a Main Fan module or the I/O fan module. |
| 29. | Fixed | Local Video disappears with Console Redirection and Quiet Boot Enabled in the MFS5520VI compute module. |
| 30. | Fixed | Speed Step disable in BIOS setup disables LSI SAS controller in the MFS5520VI compute module. |
| 31. | Fix | Red Hat Enterprise Linux AS 5.0 U3, 32 bit Xen kernel only, shows 13GB of memory when more than 14GB of memory is installed. |
| 32. | No Fix | MPIO takes a long time to install under Microsoft Windows* 2003 Cluster. |
| 33. | No Fix | Virtual Drives from external ports are not recognized on reboot with Microsoft Windows* 2003 Enterprise. |
| 34. | No Fix | Extraction and quick reinsertion of the Intel® Server Compute Module MFS5520VI may cause various issues. |
| 35. | Fixed | DIMM temperature warning in VMWare ESX 3.5 and ESX 4.0. |
| 36. | Fixed | MFS5000SI compute module occasionally hangs during LTO-4 tape backup operations |
| 37. | Fix | Virtual Drives within a Storage Pool lose server assignments after a Virtual Drive has been deleted. |

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|-----|--------|--|
| 38. | Fixed | LUN Copier not activated with valid key. |
| 39. | No Fix | RAID 10 to RAID 1E Automatic Migration |
| 40. | Fixed | The installation of SLES 11 x86_64 fails on SSD. |
| 41. | Fixed | GMM Web GUI SSL certification expired on Oct 27 2009 |
| 42. | No Fix | rKVM right Alt+F1 in VMWare 3.5,4.0 launches help instead of ESX server console. |
| 43. | No Fix | ESM will increase the counter of "Received Pause Frames" when receiving erroneous or illegal packets |
| 44. | No Fix | Excessive SEL logs may report after SuSE* Linux installed. |
| 45. | Fix | MFS5520VI shows a incorrect CPU L1 and L2 cache size in BIOS |
| 46. | No Fix | Fail to launch remote KVM under Redhat Desktop WS 5.5 |
| 47. | No Fix | CMM is not able to control date and time of Ethernet Switch Module |
| 48. | No Fix | Reset Ethernet Switch Module from "Advanced Configuration" will not generate "reset" event log |
| 49. | Fixed | The rKVM will be black screen when SUSE11 boot to login screen with S5000SI board |
| 50. | No Fix | The size of installed DIMM is wrong when Mirroring mode on with MFS5000SI |
| 51. | No Fix | The rKVM console may report "Invalid session ticket" or "Authentication Failed" |
| 52. | No Fix | Select rKVM Help function by using the hot key fail |
| 53. | No Fix | Mixed processors population will disable CPU2 |
| 54. | Fix | When Virtual Drive migration or expansion is running, and HDD physically removed, no failure reported |
| 55. | Fixed | Lower network performance may be observed when Hyper-V role is added in Windows* Server 2008 R2 with more than 32GB memory |
| 56. | No Fix | Illegal FC packets counted as good FC packets in Ethernet Switch Module interface statistics. |
| 57. | No Fix | Ethernet Switch Jumbo Frame changes not consistently saved. |

| | | |
|-----|--------|---|
| 58. | Fix | Rebuild stuck at 99% when Storage Pool contains VD with RAID 0 |
| 59. | No Fix | rKVM Mouse not syncing properly w/ SLES 11 Enterprise 64 bit SP1 |
| 60. | No Fix | MFS5520VI may display incorrect POST code for memory error |
| 61. | Fix | HDD cache enable does not enable HDD cache with UFU 10.3 and 10.4. |
| 62. | No Fix | Mouse acceleration with SLES 11.x over Virtual KVM |
| 63. | Fix | Clock Drift not saved if selected on the Create/Modify VM advanced tab |
| 64. | Fix | Revertible hot spare does not return to being a spare |
| 65. | Fix | Cluster Share enabled after chassis is unvirtualized and revirtualized |
| 66. | Fix | Cluster Share not accessible after system firmware is updated |
| 67. | Fix | Localized Help links take user to welcome page |
| 68. | No Fix | Red Hat* Enterprise Linux ISO not visible from the VM OS after install |
| 69. | No Fix | Virtual machine KVM only supports US English keyboards |
| 70. | Fix | VM monitor graph returns to default time interval after a page auto-refresh |
| 71. | Fix | Keys will repeat sometimes in terminal windows over slow networks |
| 72. | Fix | Unvirtualize action available when virtualized server is powered on |
| 73. | Fix | Forcing physical drive online may reset compute modules |
| 74. | Fix | Repair Hypervisor Install Help information is incorrect |
| 75. | Fix | Prepare For Transport action available during Storage Pool Synchronization |
| 76. | Fix | VM Modify may result in the VM not being displayed |
| 77. | Fix | Incorrect message displayed when mouse hovers over upper left corner of VM Pool |
| 78. | Fix | Disk traffic will not be displayed on VM Monitor tab graph for new VM SPs |

| | | |
|-----|--------|--|
| 79. | Fix | Error message displayed when moving a VM |
| 80. | Fix | VM Storage Pool available space is not correct |
| 81. | No Fix | VM 'Autostart' does not check available memory when starting VMs |

Table 2. Documentation Changes

| No. | Plans | Description of Documentation Change |
|-----|--------|--|
| 1. | Fixed | System Fault LED not depicted in front system views in Intel® Modular Server System MFSYS25 documentation |
| 2. | Fixed | Power Budget Information Incorrect in Intel® Modular Server System MFSYS25 TPS |
| 3. | No Fix | In the V2.6 Release Notes, Section G, Red Hat* Enterprise Linux 5 Server U1 (32bit and 64bit) is incorrectly listed as supporting shared LUN |
| 4. | Fixed | Intel® Modular Server System MFSYS25/MFSYS35 Quick Start User's Guide has an incorrect Package Contents list |

Following are in-depth descriptions of each erratum / documentation change indicated in the tables above. The errata and documentation change numbers below correspond to the numbers in the tables.

Errata

1. Intel® Compute Module MFS5000SI NIC/Activity LEDs do not display a link status

| | |
|-------------|---|
| Problem | Compute Module NIC/Activity LEDs display is OFF instead of ON when link is established. |
| Implication | Link status of the ports can be verified in the GUI on the Switch Status Tab. The Compute Module NIC/Activity LEDs will blink to show outbound NIC activity; however, the user should refer to the Switch Activity LEDs to verify communication status with the switch. |
| Status | No Fix |

2. MFS5000SI remote floppy is not supported

| | |
|-------------|--|
| Problem | MFS5000SI remote floppy is not supported. |
| Implication | Customers will not be able to remotely mount a floppy drive during Remote KVM/Media redirection. |
| Status | No Fix |

3. 1024x768 Resolution with color depth set to thousands of colors not supported under Red Hat* Enterprise Linux 5.0 64-bit

| | |
|-------------|---|
| Problem | Video resolution test fails under Red Hat* Enterprise Linux 5.0 64-bit. |
| Implication | Resolution of 1024x768 with color depth set to thousands of colors fails to enable. |
| Status | Fixed in UFU V5.5 |

4. NIC Utility `dcreate.exe` on MFS500SI -003 Resource CD incomplete

| | |
|-------------|---|
| Problem | MFS500SI Resource CD ROM E12216-003 NIC driver package contains a <code>dcreate.exe</code> file that errors out. |
| Implication | <code>dcreate.exe</code> is not functional on the MFS500SI Resource CD. If <code>dcreate</code> functionality is required, users can download the complete software stack from support.intel.com by going to http://downloadcenter.intel.com/ , typing in “Intel® 82571EB” and selecting the file <code>PRO2KXP.exe</code> . |
| Workaround | None |
| Status | No Fix – utility removed from CD |

5. Event Log may report SMI Timeout Assertion after Server Power button is pressed

| | |
|-------------|--|
| Problem | SMI Timeout Assertion is logged as a critical event in the Event Log after the Server Power button is pressed; however, the server powers up normally. |
| Implication | No system impact – Timeout logic was incorrect, resulting in a false event logging. |
| Workaround | None |
| Status | Fixed, P2.6 |

6. User is not able to configure different responses to pressing the Server Power button in Microsoft Windows 2008* Enterprise Server Edition

| | |
|-------------|---|
| Problem | User is not able to configure different responses to pressing the Server Power button in the OS. |
| Implication | By design the user should be able to configure the response of the Server Power button in the OS to do nothing, prompt for action, standby or hibernate. Changing these settings in the OS has no impact – the power button continues to power down the server. |

Workaround Win2K8 allows the redefinition of the power button press to mean “Go into hibernate state” rather than “Power down.” If this configuration is enabled AND the power button is pressed the BMC will get out of sync with the physical power state since the BMC has no visibility into the changed OS configuration. In the context of a server in a chassis, redefining the power button to mean “hibernate” is not useful. In this environment, the OS should not be configured to hibernate on a power button rather than power off. If the OS is so configured and the power button is pressed, the power button should be pressed a second time to bring the power back up. The OS should be configured to power off in response to a power button.

A server in this condition can also be recovered by doing a “forced power off” followed by a normal “power on”.

Status No Fix

7. Dual Intel® Storage Controller configuration not yet supported in the Intel® Modular Server System MFSYS25 and MFSYS35

Problem Dual SCM configuration support not yet included in the MFSYS25 software stack for:

- A. Microsoft Windows* 2003 Enterprise, Microsoft Windows* 2008 Enterprise
- B. Red Hat 5.0 and SUSE Linux Enterprise 10

Implication Dual SCM configuration is not supported. Single SCM is only supported in slot 1.

Status Fixed, all operating systems and with appropriate UFU. P2.3.1 for Microsoft Windows* 2003 R2 SP2 and Microsoft Windows* 2008, P2.6 for SUSE Linux Enterprise* 10 U1, V5.5 for Red Hat* 5.0 U4.

8. System Fault LED does not come on if smart devices (SCMs, ESMs, etc.) are completely non-functional

| | |
|-------------|--|
| Problem | System Fault LED does not come on if smart devices (SCMs, ESMs, etc.) are completely non-functional. |
| Implication | Currently, the System Fault LED will only turn on if the device is capable of telling the CMM it has a fault condition. If a device's software is completely inoperable, the System Fault LED may not turn on. |
| Workaround | None. In the future the GUI will illuminate the System Fault LED if the CMM cannot communicate with the device after ~60 seconds of timeout. |
| Status | Fixed |

9. Deleting existing assigned virtual drive may result in GUI action failure

| | |
|-------------|---|
| Problem | While deleting an existing assigned virtual drive, GUI action fails with 'Storage subsystem is busy. Please try again in a few minutes.' |
| Implication | Intermittently - as a user tries to delete a virtual drive, they may receive a message indicating that the SCM is busy. The action will not complete properly until all the servers are shut down and the SCM is physically removed and replaced. |
| Workaround | None |
| Status | Fixed |

10. Certain Non-critical Events logged as Critical in GUI

| | |
|-------------|--|
| Problem | GUI logs certain correctable errors as critical in the Event Log |
| Implication | GUI may incorrectly log correctable errors, such as SBE or mismatched processors installed, as "critical" errors. GUI categorization of the events will be corrected in a future release. Note that correctable errors do not cause the System Fault LED to turn on by design; only critical errors light the LED. The System Fault LED will only light for truly critical or higher severity issues such as MBEs. |

Workaround None

Status Fixed

11. System Fault LED does not turn on for all critical events

Problem System Fault LED will not turn on as expected when certain critical events occur.

Implication When the Processor Cache Size Mismatch error occurs, the system will boot into BIOS setup; however, the System Fault LED will not turn on. Additionally when the Correctable Memory Error Threshold is reached, the event will be logged – however, the System Fault LED will not turn on.

Workaround None

Status Fixed

12. Email Alerting not enabled by default for three Critical Events

Problem On all critical event error logging, SNMP, and Email Alerting should be enabled by default. However, three Critical Events do not by default have Email Alerting enabled as expected.

Implication Both SNMP and Email Alerting were not enabled by default in the event policy for the following three events: Storage Subsystem – RAID Level Migration is aborted due to an internal error, CMM m – System Component Unfit, and CMM – CMM Internal Firmware Error.

Workaround Administrator can go in and enable SNMP and Email Alerting for these three events.

Status Fixed

13. Removing/Inserting USB devices during BIOS POST or in EFI may cause unexpected system behavior

| | |
|-------------|---|
| Problem | Removing/Inserting USB devices during BIOS POST or in EFI may cause unexpected system behavior such as a server reboot, lock up or unexpected characters being displayed. |
| Implication | Customer will not be able to remove USB devices during BIOS POST or while in EFI. |
| Workaround | Server module must be powered off and back on to recover. Do not remove/insert USB devices during server POST or while in EFI. |
| Status | No Fix |

14. Simultaneous Remote KVM installs of OS or applications will not successfully complete on MFS5000SI

| | |
|-------------|---|
| Problem | Attempting to load two Operating Systems or software installations via Remote KVM sessions at the same time on two separate servers using two laptops will not successfully complete on MFSYS5000SI |
| Implication | Customers will not be able to conduct simultaneous Remote KVM OS or application installations on MFSYS5000SI |
| Workaround | None |
| Status | Fixed |

15. Relative and Absolute KVM Mouse Mode not Supported on all Operating System's

| | |
|-------------|---|
| Problem | Two mouse modes are available, Relative (the default) and Absolute – both are not supported for all Operating Systems. |
| Implication | Absolute mouse mode is used with Microsoft® Windows and other operating systems that compute mouse movements from absolute X, Y coordinates. Relative mouse mode is used primarily with some Linux and Unix X/Windows displays and other operating systems that compute mouse movements from the change in relative position to the last position (how much the mouse moved). |
| Workaround | <p>When using Linux or other operating systems that compute mouse movements from change in relative position you must change the mouse mode setting in the KVM Viewer. Choose Mouse Mode from the KVM Viewer application Options menu. Select Relative Mode. If the remote and local cursors are not synchronized, toggle the Sync Cursor setting from On to Off and back to On.</p> <p>Note: Mouse mode should be selected before starting CD Redirection. The menu option will be disabled when CD redirection is enabled</p> |
| Status | No Fix |

16. Compute Modules with RAID 6 Virtual Drives Experiencing Slow Response

| | |
|-------------|--|
| Problem | Compute Modules with a Raid 6 Virtual Drive from a Storage Pool with 9 or more physical hard drives may experience slow response when transferring very large files. |
| Implication | <p>When the compute module storage configuration has a Raid 6 Virtual Drive from a Storage Pool with 9 or more physical hard drives, the user may experience an apparent system freeze when transferring very large files. When monitoring CPU utilization using Task Manager while copying files, utilization may drop to zero and the system will stop copying and responding to input.</p> <p>The issue also does not occur in RAID 6 configurations from a Storage Pool with less than nine hard disk drives or with Virtual Drives in RAID 5 or RAID 10 configurations.</p> |

| | |
|------------|---|
| Workaround | Current workaround is to use a Virtual Drive configured as RAID 6 with less than nine hard disk drives or a version of RAID other than 6. |
| Status | Fix |

17. CONFIRM dialog box action not required to complete requested action

| | |
|-------------|---|
| Problem | Any dialog box which prompts the user to type “confirm” before clicking OK in order to perform an action will actually complete the specific action if the user clicks OK without typing “confirm”. The action will complete if the user leaves the box blank or types any combination of letters including “confirm” before clicking OK. |
| Implication | A user may inadvertently perform an undesired action by clicking OK without typing “confirm”, typing any combination of letters or leaving the box blank. |
| Workaround | Prior to clicking OK ensure that the action about to be perform is actually desired. |
| Status | Fixed, P2.3.1 |

18. Pressing F1 during a KVM session will bring up the local KVM console help not the remote system application help

| | |
|-------------|---|
| Problem | Pressing F1 during a KVM session will bring up the local KVM console help not the remote system application help. |
| Implication | Remote system application help is not viewable by the user. |
| Workaround | There is currently not a workaround to this issue. |
| Status | Fixed, P2.3.1 |

19. Ethernet Switch Module will fail to automatically update in an operational chassis

Problem If an Ethernet Switch Module, not at FW level 1.0.0.27, is inserted into slot 1 or slot 2 in a chassis that is in steady state (no FW updates in progress or pending, and the chassis is just operating normally), the CMM's attempt to update the FW on the switch will not succeed. The FW update page will show that a FW update is 'pending'. Resetting or re-inserting the switch will not correct the situation. The CMM must be reset. The FW update will be applied to the switch when the CMM restarts. This applies to ESM1 and ESM2.

Note: This erratum applies only to ESM hot-insert. Installing P2.6 on a chassis that already has an ESM that is not at FW revision level 1.0.0.27 will allow the ESM to update without requiring a CMM restart.

Implication FW update will not complete.

Workaround Reset the CMM.

Status Fixed, V3.0

20. Microsoft Windows Server 2003* cluster support not available

Problem Cluster support is not available for Microsoft Windows Server 2003* R2 SP2.

Implication Cluster support is not available to customers using Microsoft Windows Server 2003* R2 SP2.

Workaround There is currently not a workaround to this issue.

Status Fixed, V3.0, Reference Microsoft Windows Server 2003* (x86 and x64) Cluster-Driver Installation BKM (E67062-002) for details.

21. SuSE Enterprise Linux 10* U1 cluster node shown as running after being physically removed from chassis after failure

| | |
|-------------|--|
| Problem | When a node (compute module) is physically removed from the MFSYS25 chassis, the node is stopped but the resource is still shown as running. Manually stopping and restarting the resource will not correct this situation since the resource is still shown as running. When the node is reinserted its resource indicates as up and running again. |
| Implication | Incorrect resource status is displayed when a node is physically removed. |
| Workaround | User needs to develop and integrate a STONITH driver using the Intel® Compute Module Power Control for Clusters WhitePaper . |
| Status | No Fix |

22. Fujitsu 146GB, 2.5" SAS hard drive takes longer than expected to come on line after a hot insertion

| | |
|-------------|---|
| Problem | When a Fujitsu 146GB, 2.5" SAS drive is hot inserted into the hard drive bay, it takes longer than expected for the drive to come on line causing command timeouts. Resetting the Storage Control Module is required to have the drives come ready. |
| Implication | Hard disk drives are marked as not ready. |
| Workaround | Timeout values were extended in firmware to allow more time for the drives to become ready. |
| Status | Fixed, P2.6 |

23. BIOS R0048 Does Not Support Mixed Stepping E-0 and C-0 Processors

| | |
|-------------|---|
| Problem | BIOS code specifically designed to allow support for mixed stepping processors was not included in BIOS R0048. |
| Implication | The use of mixed stepping E-0 and C-0 processors and BIOS R0048 may cause erratic system behavior such as operating systems failing to load or install. |
| Status | This erratum may be fixed in a future BIOS release. |
| Workaround | None. |

24. In Windows Enterprise Server 2008* Cluster failover testing, it has been observed that cluster nodes may lose access to the clustered shared LUN drives

| | |
|-------------|--|
| Problem | In Windows Enterprise Server 2008* Cluster failover testing, it has been observed that cluster nodes may lose access to the clustered shared LUN drives if a node is power cycled. If a node which has lost shared LUN access is the cluster resource owner for the cluster storage resources or becomes the owner, the cluster storage resources will go into an offline state. |
| Implication | Cluster storage resources going offline would lead to failures in any applications which are dependent on the cluster storage. Resetting SCM1 or power cycling the chassis will restore service. |
| Status | Fixed in UFU V2.7 |
| Workaround | Resetting SCM1 or power cycling the chassis will restore service. |

25. The CMM is not able to provide management information for the power supply when an AXXPSU at revision D73299-006 is installed in a system chassis

| | |
|-------------|---|
| Problem | The CMM is not able to provide management information, firmware revision number or manufacturing information for the power supply when an AXXPSU at revision D73299-006 is installed in a system chassis. |
| Implication | In installations with firmware revision P2.3.5 the CMM will prompt “Install Power Supplies” in the Action Required window; in installations with firmware revision P2.6 that alert will not occur. In both cases, the PSU / system chassis will power up. This erratum does not prevent powering up of the Server Compute Module. |
| Status | Fixed in UFU P2.6. |

26. The Network Time Server setting on the date/time web page of the Intel® Modular Server Control GUI does not allow selection of time zones

| | |
|-------------|---|
| Problem | The Network Time Server setting on the date/time web page of the Intel® Modular Server Control GUI does not allow selection of different time zones. Time Zone is set at GMT. |
| Implication | Network Time Server is always set to GMT. |
| Status | Fixed in V2.7 |
| Workaround | None. |

27. SuSE* Linux Enterprise Server 10 U1 will mark the OS LUN as read only if a SCM affinity change is made while the SUSE* Linux Enterprise Server 10 operating system is running or booted

| | |
|-------------|--|
| Problem | SuSE* Linux Enterprise Server 10 U1 will mark the OS LUN as read only if a SCM affinity change is made while the SuSE* Linux Enterprise Server 10 operating system is running or booted. |
| Implication | The OS LUN is marked as “read only”. |
| Status | No Fix. |
| Workaround | Power down the SuSE* Linux Enterprise Server 10 U1 operating system. While the operating system is powered down, go to the CMM UI and change the LUN affinity. |

28. Chassis fault LED does not illuminate after removing a Main Fan module or the I/O Fan module

| | |
|-------------|---|
| Problem | When one or both of the Main Fan modules or the I/O Fan module is removed from the system, the chassis fault LED does not illuminate. |
| Implication | There is no visual indication on the system that one or both of the Main Fan modules or the I/O Fan module have been removed |
| Status | Fixed in UFU V5.5. |

29. Local video disappears with Console Redirection and Quiet Boot Enabled in the MFS5520VI compute module

| | |
|-------------|---|
| Problem | Local video disappears with Console Redirection and Quiet Boot enabled in the MFS5520VI compute module. |
| Implication | Local video will disappear if Console Redirection and Quiet Boot are enabled. |
| Status | Fixed in UFU V3.6. |
| Workaround | Do not enable Console Redirection and Quiet Boot. |

30. Speed Step Disable in BIOS setup disables the LSI SAS controller in the MFS5520VI compute module

| | |
|-------------|---|
| Problem | Speed Step Disable in BIOS setup disables the LSI SAS controller. |
| Implication | When Speed Step is disabled in BIOS setup, the LSI SAS controller option ROM is disabled and storage is no longer seen. |
| Status | Fixed in UFU V3.6. |
| Workaround | Do not disable Speed Step. |

31. Red Hat Enterprise Linux AS 5.0 U3, 32 bit Xen kernel, only shows 13GB of memory when more than 14GB of memory is installed

| | |
|-------------|--|
| Problem | Red Hat Enterprise Linux AS 5.0 U3, 32 bit Xen kernel only, shows 13GB of memory when more than 14GB of memory is installed. |
| Implication | Memory is under reported. |
| Status | This erratum is a RHEL 5.0 U3 issue and has been reported to Red Hat for problem resolution. |
| Workaround | None. |

32. MPIO takes a long time to install under Microsoft Windows* 2003 Cluster

| | |
|-------------|---|
| Problem | MPIO takes a long time to install under Microsoft Windows* 2003 Cluster. |
| Implication | Delay can take as long as 2 – 5 minutes per virtual drive. |
| Status | No Fix. |
| Workaround | Install MPIO driver prior to setup of cluster. Do install/uninstall with one server module at a time; shut down cluster and update one server module at a time. |

33. Virtual Drives from external ports are not recognized on reboot with Microsoft Windows* 2003 Enterprise.

| | |
|-------------|---|
| Problem | Virtual drives from external ports are not recognized on reboot with Microsoft Windows* 2003 Enterprise. |
| Implication | On reboot, all LUNs set to LUN 0 will not be recognized and available.. |
| Status | No Fix. |
| Workaround | Do not assign LUN 0 to LUNs on an external array. All LUNS on an external disk array should be set to a LUN other than LUN 0. |

34. Extraction and quick reinsertion of the Intel® Server Compute Module MFS5520VI may cause various issues

| | |
|-------------|--|
| Problem | Extraction and quick reinsertion of the MFS5520VI compute module may cause various different issues. |
| Implication | If the compute module is reinserted too quickly, various issues may occur. |
| Status | No Fix. |
| Workaround | After extracting a MFS5520VI compute module, wait 15 seconds before reinserting. |

35. DIMM temperature warning in VMWare ESX 3.5 and ESX 4.0

| | |
|-------------|---|
| Problem | VMWare ESX 3.5 and ESX 4.0 pick up a sensor as DIMM9 temperature and report a DIMM temperature warning. |
| Implication | VMWare ESX 3.5 and ESX 4.0 generates a false DIMM temperature warning for DIMM9. |
| Status | Fixed in UFU V4.0. |

36. MFS5000SI compute module occasionally hangs during LTO-4 tape backup operations

| | |
|-------------|--|
| Problem | MFS5000SI compute module occasionally hangs during LTO-4 tape backup operations. The backup operation byte count will stop incrementing and access to the server compute module will also slow down. Attempts to cancel the tape backup job in progress or to restart Backup Exec services appear to hang as well. |
| Implication | MFS5000SI compute modules occasionally hang during LTO-4 tape backup operations. |
| Status | Fixed in UFU5.5. |

37. Virtual Drives within a Storage Pool may lose server assignments after a Virtual Drive has been deleted

| | |
|-------------|---|
| Problem | When a Virtual Drive within a Storage Pool is deleted, assignments for subsequent Virtual Drives within the same Storage Pool may be lost during a firmware update or after a power cycle of the SCM. |
| Implication | In the event that Virtual Drive assignments are lost, effected Virtual Drives must be reassigned. |
| Status | Fix in future FW release. |

Workaround Do not powercycle SCM or update FW immediatly following a Virtual Drive deletion. Maintain a current record of the storage layout and server assignments.

38. LUN Copier not activated with valid key

Problem On systems upgrading from UFU 3.0 to UFU 4.0 directly, when the LUN Copier feature is added via the feature activation screen, the key for LUN Copier is accepted but the feature is not activated.

Status Fixed in UFU V4.1

Workaround Reset CMM settings to system default or update system firmware to UFU V4.1.

39. RAID 10 to RAID 1E Automatic Migration

Problem RAID 10 Virtual Drives automatically migrated to RAID 1E Virtual Drives when the Storage Pool they belonged to was expanded by adding additional disks, either an even or odd number.

Implication Working as designed . No impact to redundancy or performance.

Status No fix.

40. The installation of SLES 11 x86_64 fails on SSD

Problem On MFSYS25 system with SSD installed, the installation of SLES 11 x86_64 fails at the point where the GRUB bootloader is being configured

Status Fixed in SLES 11 SP1.

Workaround Set SCM affinity to SCM2, installation will complete without a GRUB error.

41. GMM Web GUI SSL certification expired on Oct 27 2009

Problem GMM Web GUI SSL certification expired on Oct 27 2009.

Status Fixed in FW V5.5.

42. rKVM right Alt+F1 in VMWare 3.5, 4.0 launches help instead of ESX server console

Problem rKVM right Alt+F1 in VMWare 3.5,4.0 launches help instead of ESX server console.

Status No Fix

Workaround Use left Alt key+F1 since VMware does not support this function via right Alt key +F1.

43. ESM will increase the counter of "Received Pause Frames" when receiving erroneous or illegal packets

Problem Packets received with undersize, oversize, or/and with CRC are treated as good Flow Control packets and should not be counted as such, even if all above conditions are fulfilled. These packets should be counted according to the specific error (undersize, oversize, jabber fragment, or CRC). However, these illegal packets are counted as good Flow Control packets.

Implication Hardware Bug. No impact for functionality.

Workaround None

Status No Fix

44. Excessive SEL logs may report after SuSE* Linux installed

| | |
|-------------|---|
| Problem | During system reboot excessive logs "PCIe Fatal Completer Abort Errors" maybe get reported in compute node's SEL log. |
| Implication | During a system reboot, the user may see excessive logs being reported in SEL log. |
| Workaround | These errors occur during the ISA PNP scan. A workaround is to edit /boot/grub/menu.lst and add "noisapnp" to the "kernel" parameter list after installation. |
| Status | No Fix |

45. CPU L1 and L2 cache size incorrect in MFS5520VI BIOS

| | |
|-------------|---|
| Problem | MFS5520VI shows a incorrect CPU L1 and L2 cache size in BIOS. |
| Implication | No impact for functionality. |
| Status | Fix in future BIOS release. |

46. Fail to launch remote KVM under Redhat Desktop WS 5.5

| | |
|------------|---|
| Problem | Login to CMM GUI from Redhat Desktop WS 5U5, using Firefox 3.6.3, JRE6U20, Flashplayer 10.0.45.2. When launching rKVM Applet, a warning message pops out, "Failed to validate certificate. The application will not be executed." |
| Status | No Fix |
| Workaround | Change Java security by uncheck the "Check certificates for revocation using certificate revocation list(CRLs) and enable online certification validation" options. |

47. CMM is not able to control date and time of Ethernet Switch Module

| | |
|---------|--|
| Problem | All Ethernet Switch related event logs show a January 2000 date. There is no way for the user to set the date, time or time zone in the ESM GUI interface. All |
|---------|--|

the dates have been set during manufacturing. The CMM GUI is not able to control the date and time of Ethernet Switch Module.

Implication This is a firmware Bug. No impact for functionality.

Status No Fix

48. Reset Ethernet Switch Module from "Advanced Configuration" will not generate "reset" event log

Problem Reset works under Ethernet Switch's "Advanced Configuration" session, but no event in GUI about a reset though.

Implication This is a firmware Bug. No impact for functionality. "Reset" will able to generate reset event log when do it outside of "Advanced Configuration" session.

Status No Fix

49. The rKVM will be black screen when SUSE11 boot to login screen with S5000SI board

Problem The rKVM will be black screen when SUSE11 boot to login screen with S5000SI board.

Implication No impact on connecting the monitor directly to S5000SI board VGA port.

Workaround The SLES-11 S5000SI redirection works fine with Vesa and fbdev drivers without any issue but user needs to force use to vesa drivers during SLES-11 installation time. Steps are:

1. Boot SLES-11 DVD or iso image
2. Force to use vesa driver giving following command initial grub screen:
"video=vesa".

You can also try with specify resolution color bits and refresh rates with
"video=vesa:1280x960-16@70"

3. Continue SLES-11 installation

50. The size of installed DIMM is wrong when mirroring mode on with MFS5000SI.

| | |
|-------------|--|
| Problem | The mirrored DIMM units are shown as 0MB on CMM web GUI. |
| Implication | The DIMM size information of MFS5000SI on CMM web GUI is incorrect when DIMM mirroring mode is on. |
| Status | No Fix. |

51. The rKVM console may report "Invalid session ticket" or "Authentication Failed".

| | |
|-------------|---|
| Problem | The rKVM console may report "Invalid session ticket" or "Authentication Failed". |
| Implication | It may happen when network connection lost and do network re-connect. No impact on connecting the monitor directly to computer node's VGA port. |
| Status | Fix in future FW release. |

52. Select rKVM help function by using hot key fail

| | |
|-------------|---|
| Problem | When using Remote KVM under Linux based OS, the Hot key "ALT + F1" can't open RConsole Client Help. |
| Implication | It shows the main menu of Linux instead of Remote console client help window pop up |
| Status | No Fix. This is common Liunx behavior, "ALT+F1" is Linux system Hot key, will not be sent to browser. |
| Workaround | Access RConsole Client Help through drop down menu. |

53. Mixed processors population will disable CPU2

| | |
|-------------|--|
| Problem | When mixed processors are populated on MFS5000SI, CPU2 will be disabled. |
| Implication | No customer implication, Works as design. |
| Status | No Fix |

54. When Virtual Drive migration or expansion is running, and HDD physically removed, no failure reported.

| | |
|---------|--|
| Problem | When Virtual Drive migration or expansion is running, and HDD physically removed, no failure reported. |
| Status | Fix in future firmware release |

55. Lower network performance may be observed when Hyper-V role is added in Windows* Server 2008 R2 with more than 32GB memory

| | |
|-------------|--|
| Problem | On a dual Intel® Xeon® 5600 series processor configuration with more than 32GB memory installed, user may notice network performance drop in Windows* Server 2008 R2 when Hyper-V role is added. |
| Implication | User may see lower than expected network performance under windows* Sever 2008 R2. |
| Status | Fixed in UFU v6.7. |
| Workaround | Reduce memory size to less than 32GB. |

56. Illegal FC packets counted as good FC packets in Ethernet Switch Module interface statistics

Problem A packet is identified as a good formatted 802.3x Flow Control packet if all of the following conditions are met:

- MAC DA is 01-80-C2-00-00-01.
- Length/EtherType field is 88-08.
- OpCode field is 00-01.

Packets received with undersize, oversize, or/and with CRC, should not be treated as good Flow Control packets and should not be counted as such, even if all above conditions are fulfilled. These packets should be counted according to the specific error (undersize, oversize, jabber fragment, or CRC). However, these illegal packets are counted as good Flow Control packets.

Implication The wrong counter is incremented by the illegal Flow Control packet.

Status No Fix.

57. Ethernet Switch Module Jumbo Frame changes not consistently being saved

Problem In Ethernet Switch Advanced Configuration, set the Jumbo Frame to enable, save the changes, reset the switch. Upon reboot Jumbo Frame may still be Disabled.

Implication Customer may need to configure and reset the switch multiple times. After making the change the customer will need to recheck the setting after a switch reset to insure it has been set correctly.

Workaround Save settings on the jumbo frame page, save again on the switch reset page, wait 15 seconds and go back to the jumbo frame page, make sure the jumbo frame setting has been saved, then reset the switch on the reset page of advanced configuration. Upon switch reboot, recheck the jumbo frame setting to insure it is correct. If not retry the same procedure.

Status No Fix.

58. Rebuild stuck at 99% when Storage Pool contains VD with RAID 0

| | |
|------------|---|
| Problem | Whenever a storage pool has multiple VD RAID levels, and at least one VD has RAID 0, a rebuild operation will get stuck at 95 to 99%, and other storage management operations with the affected SP may fail. It is recommended that VDs with RAID 0 should be placed in a separate storage pool from those with other RAID levels. |
| Workaround | Power down all compute modules. If present, remove SCM2 and wait at least one minute for the system to stabilize. Extract SCM1, wait 30 seconds, reinsert SCM1. Watch the user interface storage page for SPs and VDs to reappear, then delete each RAID 0 VD in the affected SP. It is important this deletion take place within five minutes from inserting the SCM, otherwise the deletion operation will fail and these steps need to be repeated. The rebuild will then proceed and complete within a few minutes. |
| Status | Fix in future UFU release. |

59. rKVM Mouse not syncing properly with SLES 11 Enterprise 64 bit SP1

| | |
|------------|--|
| Problem | rKVM Mouse not syncing properly w/ SLES 11 Enterprise 64 bit SP1. |
| Workaround | Reduce mouse acceleration and threshold in SLES 11 OS. From Computer-> Control Center -> Mouse-> General tab , set Acceleration to lowest and Threshold to lowest. |
| Status | No Fix |

60. MFS5520VI may display incorrect POST code for memory error

| | |
|-------------|--|
| Problem | MFS5520VI may display an incorrect POST code of 0xF2 (start of Memory Reference Code) when a memory error is detected. |
| Implication | Specific memory error can't be determined from the POST code LEDs. |

| | |
|------------|---|
| Workaround | <p>When POST code 0xF2 is encountered, first check that the installed memory configuration is valid. If the specific memory error POST code is needed:</p> <ul style="list-style-type: none">• Extract blade.• Install BMC force update jumper.• Press front panel power button to power up blade.• Record the POST code.• Press front panel power button to power down blade.• Extract blade.• Remove BMC force update jumper. |
| Status | No Fix |

61. HDD cache enable does not enable HDD cache with UFU 10.3 and 10.4

| | |
|-------------|--|
| Problem | HDD cache enable does not enable HDD cache with UFU 10.3 and 10.4. |
| Implication | Customer can not enable HDD cache with UFU 10.3 and 10.4. |
| Status | Fix in next MFSYS25V2 UFU release. |

62. Mouse acceleration with SLES 11.x over Virtual KVM

| | |
|-------------|---|
| Product | Intel® Modular Server System MFSYS25V2 with the Intel® Modular Server Virtualization Manager feature activated. |
| Problem | SUSE Linux Enterprise* 11 mouse acceleration over virtual KVM |
| Implication | During SUSE Linux Enterprise*11 installation over virtual KVM mouse acceleration issues will occur. |
| Workaround | After the operating system is installed go to Computer > Control Center > Mouse > General tab and set Acceleration to lowest and set Threshold to lowest. |
| Status | No Fix |

63. Clock Drift not saved if selected on the Create/Modify VM advanced tab

| | |
|-------------|--|
| Product | Intel® Modular Server System MFSYS25V2 with the Intel® Modular Server Virtualization Manager feature activated. |
| Problem | Clock Drift is not set when it is selected on the Create/Modify VM advanced tab. |
| Implication | Clock drift is not set when it is selected on the Create/Modify VM advanced tab. Clock drift may occur with Red Hat* Enterprise Linux operating systems. |
| Status | Fix |

64. Revertible hot spare does not return to being a spare

| | |
|-------------|--|
| Problem | Revertible hot spare will not return to being a hot spare once a drive is replaced. |
| Implication | If a VM storage pool loses a drive and a revertible hot spare is automatically rebuilt into the VM storage pool, it will not return to a hot spare once the original lost drive is replaced. Users configuring a global revertible spare must be aware that the global revertible spare will not be available as a spare once it has been built into a VM storage pool even after the original lost drive is replaced. |
| Status | Fix |

65. Cluster Share enabled after chassis is unvirtualized and revirtualized

| | |
|-------------|--|
| Product | Intel® Modular Server System MFSYS25V2 with the Intel® Modular Server Virtualization Manager feature activated |
| Problem | Cluster Share is set to enabled on the Settings page after the chassis is unvirtualized and revirtualized, however the Cluster Share is actually disabled and not accessible. |
| Implication | If a Cluster Share was created and enabled prior to unvirtualizing and revirtualizing a chassis, the Cluster Share will show enabled on the settings screen even though it is disabled.. |
| Workaround | To access the Cluster Share, on the Cluster Share settings page ensure enabled is displayed, set the password and save changes. |

Status Fix

66. Cluster Share not accessible after system firmware is updated

Product Intel® Modular Server System MFSYS25V2 with the Intel® Modular Server Virtualization Manager feature activated.

Problem If a Cluster Share was created and enabled prior to a system firmware update, it is no longer accessible after the system update.

Implication If a Cluster Share was created and enabled prior to the system firmware update, it will be unmounted during the update.

Workaround To access the Cluster Share, on the Cluster Share settings page ensure enabled is displayed, set the password and save changes.

Status Fix

67. Localized Help links take user to welcome page

Problem Some help links in Simplified Chinese and Russian incorrectly open to the Welcome page and not the expected help topic.

Implication If using either the simplified Chinese or Russian language help files the welcome page may appear instead of the expected help topic when the user clicks "Get Help". Some of the help links are incorrect in this release for simplified Chinese and Russian help files. The "Get Help" links with the English help files are correct.

Status Fix

68. Red Hat* Enterprise Linux ISO not visible from the VM OS after install

Product Intel® Modular Server System MFSYS25V2 with the Intel® Modular Server Virtualization Manager feature activated.

Problem After installing Red Hat* Enterprise Linux 6 U1 the ISO is no longer visible to the Operating system on the Virtual Machine.

| | |
|-------------|--|
| Implication | After the Red Hat* Enterprise Linux 6 U1 installation completes successfully; the ISO is no longer visible from the VM operating system. However, in the Intel® Modular Server Control UI the ISO is still mapped to the VM. |
| Workaround | After installing the Red Hat* Enterprise Linux OS on a VM, power off the VM and select the VM modify action from within the Intel® Modular Server Control UI. On the Modify VM Install tab select the ISO to be mounted to the selected VM and save changes. Power on the VM and start a Virtual KVM session to verify the Red Hat* Enterprise Linux OS can now see the ISO image. |
| Status | No Fix |

69. Virtual machine KVM only supports US English keyboards

| | |
|-------------|--|
| Product | Intel® Modular Server System MFSYS25V2 with the Intel® Modular Server Virtualization Manager feature activated |
| Problem | VM KVM only supports US English keyboards. |
| Implication | The Virtual Machine KVM only supports US English keyboards. This differs from KVM for non-virtualized compute modules. KVM for non-virtualized compute modules supports additional keyboards, however the VM KVM is different and does not support non-US English keyboards. |
| Status | Fix |

70. VM monitor graph returns to the default time interval after a page auto-refresh

| | |
|-------------|---|
| Product | Intel® Modular Server System MFSYS25V2 with the Intel® Modular Server Virtualization Manager feature activated |
| Problem | VM monitor tab graph returns to the default one hour interval when the page is auto-refreshed. |
| Implication | If any time interval other than the default one hour time interval is selected on the Monitor tab of the VM page, the graph will display activity for the selected time interval until the page is auto-refreshed. Once the page is refreshed the Monitor graph time interval returns to the default setting of one hour. |

Status Fix

71. Keys will repeat sometimes in terminal windows over slow networks

Product Intel® Modular Server System MFSYS25V2 with the Intel® Modular Server Virtualization Manager feature activated.

Problem Red Hat Enterprise Linux 6 and SuSE Linux Enterprise Server 11: Keys will repeat sometimes in terminal windows over slow networks. Set “xset -r” in a terminal to fix issue.

Implication Sometimes keys will repeat in terminal windows on VMs with Linux operating systems over slow networks. Set “xset -r” in a terminal window to fix issue.

Workaround Set “xset -r” in a terminal window to fix issue.

Status Fix

72. Unvirtualize action available when virtualized server is powered on

Product Intel® Modular Server System MFSYS25V2 with the Intel® Modular Server Virtualization Manager feature activated.

Problem Unvirtualize action available when the compute module is powered on

Implication If a user selects the unvirtualize action for a compute module when the compute module is powered on, a message is displayed stating the server cannot be unvirtualized while the compute module is powered on. To unvirtualize a compute module, first power the compute module off and then select the unvirtualize action.

Workaround Power the compute module off and then select the unvirtualize action in the Intel® Modular Server Control UI to remove all virtualization capabilities for a server.

Status Fix

73. Forcing physical drive online may reset compute modules

| | |
|-------------|---|
| Problem | Forcing a physical drive online can cause a forced reset of the compute modules. |
| Implication | Do not force any physical drive online. Forcing a physical drive online may cause a reset of the compute modules. During this time the CMM may not be accessible. |
| Status | Fix |

74. Repair Hypervisor Install Help information is incorrect

| | |
|-------------|---|
| Problem | Repair Hypervisor Install Help information incorrectly states that ISO files stored in the ISO store will be deleted. |
| Implication | Help information is incorrect regarding ISO files stored in the ISO store during the Repair Hypervisor Install action. ISO files are not deleted from the ISO store during a repair. The text on the Repair Hypervisor Install dialog correctly states that the Repair Hypervisor Install action will leave all ISO files stored in the ISO Store, the VM configuration and the VM data intact. |
| Status | Fix |

75. Prepare For Transport action available during Storage Pool

Synchronization

| | |
|-------------|--|
| Problem | User is able to select action Prepare For Transport while SP is synchronizing |
| Implication | If a large SP is created and the user selects the Prepare For Transport action while the SP is synchronizing the Prepare For Transport action will successfully complete. However the synchronization will stop. The drives can be removed and reinserted. Once reinserted the SP synchronization is not restarted. No error message is displayed. |
| Workaround | Wait until the SP Synchronization is completed before selecting the Prepare For Transport action. |
| Status | Fix |

76. VM Modify may result in the VM not being displayed

| | |
|-------------|---|
| Product | Intel® Modular Server System MFSYS25V2 with the Intel® Modular Server Virtualization Manager feature activated. |
| Problem | Modifying a VM may result in the VM not being displayed |
| Implication | In rare cases, modifying the VM may result in the VM not being displayed. However, no data is actually lost. The LV still exists in the storage pool. To access the data stored on the LVs, a new VM will need to be created and associated with the original logical volumes. During initial creation of VMs, administrators are encouraged to record VM basic, install, advanced, network, and storage tab information for each VM and to maintain this information for each VM created. |
| Workaround | If a VM is no longer displayed after modifying the VM, select the “Create VM” action. On the Basic, Advanced and Network tabs enter the configuration information for the missing VM. On the Install tab do not mount an ISO image. On the Storage tab all unassigned LVs will be listed and available for selection. It is important to note that when selecting the unassigned LV’s, they must be assigned to the same LUN (0, 1, 2, 3) as when originally configured. On the Finish tab select create. The VM will now be displayed. |
| Status | Fix |

77. Incorrect message displayed when mouse hovers over upper left corner of VM Pool

| | |
|-------------|--|
| Product | Intel® Modular Server System MFSYS25V2 with the Intel® Modular Server Virtualization Manager feature activated |
| Problem | Message displayed when mouse hovers over the upper left corner of a VM Storage Pool. |
| Implication | Message displayed is not correct for selected VM Storage Pool. To view “External Interface” information hover mouse over the link icon in the upper right corner for the selected VM Pool. This message will be removed in future release. |
| Status | Fix |

78. Disk traffic will not be displayed on VM Monitor tab graph for new VM

SPs

| | |
|-------------|---|
| Product | Intel® Modular Server System MFSYS25V2 with the Intel® Modular Server Virtualization Manager feature activated. |
| Problem | After creating a new non-primary VM Storage Pool the hypervisor-level disk traffic will not be displayed for the new VM SP on the Monitor tab until the virtualized compute module is rebooted. |
| Implication | The VM Monitor tab graph will not show the disk traffic for the creation of the new non-primary VM SP until the virtualized compute module is rebooted. |
| Workaround | Reboot the virtualized compute module after creating one or more non-primary VM SPs. Once the virtualized compute modules are rebooted all disk traffic will be visible from the VM Monitor tab graphs. |
| Status | Fix |

79. Error message displayed when moving a VM

| | |
|-------------|---|
| Product | Intel® Modular Server System MFSYS25V2 with the Intel® Modular Server Virtualization Manager feature activated. |
| Problem | VM Delete error displayed in the VM move dialog. |
| Implication | On occasion when a VM is moved an error message may be displayed in the VM Move dialog which states the VM Delete action failed. This error can be disregarded. The VM has been successfully moved, it was not deleted. |
| Status | Fix |

80. VM Storage Pool available space is not correct

| | |
|---------|---|
| Product | Intel® Modular Server System MFSYS25V2 with the Intel® Modular Server Virtualization Manager feature activated. |
| Problem | VM Storage Pool available space calculations are not correct. |

| | |
|-------------|--|
| Implication | The amount of free space calculated in a VM Storage Pool is updated only when a new VM Storage Pool is added or when a VM Storage Pool is deleted. As a result the VM Storage Pool available space displayed within the dialogs is not correct when creating multiple VMs. |
| Status | Fix |

81. VM 'Autostart' does not check available memory when starting VMs

| | |
|-------------|---|
| Product | Intel® Modular Server System MFSYS25V2 with the Intel® Modular Server Virtualization Manager feature activated. |
| Problem | Autostart does not check how much memory is available in a VM Storage Pool. |
| Implication | All VMs configured to 'autostart' will try to start in a VM Storage Pool. Some autostart VMs may not start if memory is not available. When configuring VMs to 'autostart' verify that the total memory allocated for all 'autostart' VMs is not greater than the total available memory for a given VM Storage Pool. |
| Status | No Fix |

Documentation Changes

1. System Fault LED not depicted in front system views in Intel®

Modular Server System MFSYS25 documentation

| | |
|---------------|---|
| Problem | System Fault LED is not identified in the front system view of the Intel® Modular Server System MFSYS25 in the following documents: -008 MFSYS25 User Guide, -003 MFSYS25 Quick Start User's Guide, and -003 MFSYS25 TPS. |
| Clarification | The System Fault LED is located on the front of the chassis, in-between the I/O Cooling Module and the server in the bottom slot of the chassis. |
| Status | Fixed |

2. Power Budget Information Incorrect in Intel® Modular Server System MFSYS25 TPS

Problem The Power budget information for the MFSYS25 system is incorrect in the Intel® Modular Server System MFSYS25 TPS.
Clarification

The correct values are as follows:

| Subsystem | 12V Budget |
|---------------------------------------|---------------|
| Compute Module | 401 W |
| Mezzanine Card | 5 W |
| CMM | 6 W |
| I/O Switch | 40 W |
| Storage Module | 48 W |
| Hard Drive Bay | 165 W |
| Midplane & Cooling Modules | 164 W |
| Power Supply blank | 26 W |
| System Total | |
| Power subsystem spec | 3000 W |

Status Fixed In the P2.6

3. Release Notes, Section G, Red Hat* Enterprise Linux 5 Server U1 (32bit and 64bit) is incorrectly listed as supporting shared LUN

Problem In the V2.6 Release Notes, Section G, Red Hat* Enterprise Linux 5 Server U1 (32bit and 64bit) is incorrectly listed as supporting shared LUN.

Clarification Shared LUN is not currently supported on Red Hat* Enterprise Linux 5 Server U1 (32bit or 64bit). The Tested Hardware and Operating System List has this operating system listed correctly.

Status No Fix

4. Intel® Modular Server System MFSYS25/MFSYS35 Quick Start User's Guide has an incorrect Package Contents list

| | |
|---------------|---|
| Problem | On the front side of the Intel® Modular Server System MFSYS25/MFSYS35 Quick Start User's Guide, Document #E11186-00X, the Package Contents list incorrectly shows a rail kit included in the system shipping container. |
| Clarification | A rail kit is not included in the base system configuration or the shipping container of either the MFSYS25 or MFSYS35 systems. The rail kit is an accessory, product code AXXMFRAIL that can be purchased separately. |
| Status | Fixed in document #E11186-008. |

5. Intel® Compute Module MFS5520VI Technical Product Specification has an incorrect statement about Turbo Mode setting

| | |
|---------------|---|
| Problem | Intel® Compute Module MFS5520VI Technical Product Specification, Document #E64311-00X, in section 13.3, incorrectly shows that Turbo Mode is disabled by default. |
| Clarification | Turbo Mode is enabled by default on Intel® Compute Module MFS5520VI. |
| Status | Fixed in document #E64311-006 |