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| ReleaseOrder ID: | SCGCQ01042841 |
| Headline: | GCA: BIOS_MPT_GEN3_Phase12.0 - 8.29.00.00 BIOS |
| Release Version: | 8.29.00.00 |
| UCM Project: | BIOS_MPT_GEN3_Phase12.0 |
| UCM Stream: | BIOS_MPT_GEN3_Phase12.0_Main_Dev |
| Release Type: | GCA |
| State: | Deployed |
| Release Baseline: | BIOS_MPT_GEN3_Phase12.0_Main_Dev_2016-03-08@ \\SAS2 |
| Release Date: | 17-MAR-16 |
| Date Generated: | Apr 15, 2016 |

Release History

- [SCGCQ01036134 - Beta Release: BIOS_MPT_GEN3_Phase12.0 - 8.28.04.0](#)
- [SCGCQ01030445 - Beta Release: BIOS_MPT_GEN3_Phase12.0 - 8.28.03.0](#)
- [SCGCQ01002261 - Alpha Release: BIOS_MPT_GEN3_Phase12.0 - 8.28.02.](#)
- [SCGCQ00994250 - Pre-Alpha Release: BIOS_MPT_GEN3_Phase12.0 - 8.28](#)

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| ReleaseOrder ID: | SCGCQ01036134 Open In CQWeb |
| Headline: | Beta Release: BIOS_MPT_GEN3_Phase12.0 - 8.28.04.0 |
| Release Version: | 8.28.04.00 |
| UCM Project: | BIOS_MPT_GEN3_Phase12.0 |
| UCM Stream: | BIOS_MPT_GEN3_Phase12.0_Main_Dev |
| Release Type: | Beta |
| State: | Superseded |
| Release Baseline: | BIOS_MPT_GEN3_Phase12.0_Main_Dev_2016-02-25@ \\SAS2 |
| Release Date: | 07-MAR-16 |
| Date Generated: | Apr 15, 2016 |

Defects Fixed (2):

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| ID: | SCGCQ01033766 |
| Headline: | Controller IR firmware is displayed as IT firmware when SAS Address is not programmed. |
| Description Of Change: | The shared structures between Core BIOS and CU should be updated together if one structure is updated. However only one structure was updated. When both structures are synced the issue is fixed. |
| Issue Description: | Controller IR firmware is displayed as IT firmware when SAS Address is not programmed. |
| Steps To Reproduce: | 1. Perform complete erase of the controller. 2. Flash IR firmware and Legacy BIOS. 3. Reboot the server and Press Ctrl+C to invoke Configuration Utility. 4. Observe that in Controller BIOS CU firmware type is IT instead of IR. |

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| ID: | SCGCQ01034746 (Port Of Defect SCGCQ01029556) |
| Headline: | BIOS CU displays adapter status as Issuing IOC facts failed when one of HBA was faulty while initializing |
| Description Of Change: | Since OptionROM supports up to 4 adapters, it maintains a array of adapter pointers. The first adapter that is detected could not be fully initialized as it is faulty. Before initializing next adapter all the previous data that was gathered is cleared so that previous adapter details are not applied to other adapters. |
| Issue Description: | One of the two adapters is in fault condition and that faulty controller is detected first by system BIOS. When OptionROM tried to initialize these adapters, first adapter could not be initialized as expected. However good adapter is initialized but with error saying IOC Facts failed. |
| Steps To Reproduce: | Issuing IOC facts failed error is displayed in CU in case of two controllers with one of which is faulty. |

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| ReleaseOrder ID: | SCGCQ01030445 Open In CQWeb |
| Headline: | Beta Release: BIOS_MPT_GEN3_Phase12.0 - 8.28.03.0 |
| Release Version: | 8.28.03.00 |
| UCM Project: | BIOS_MPT_GEN3_Phase12.0 |
| UCM Stream: | BIOS_MPT_GEN3_Phase12.0_Main_Dev |
| Release Type: | Beta |
| State: | Superseded |
| Release Baseline: | BIOS_MPT_GEN3_Phase12.0_Main_Dev_2016-02-16@ \\SAS2 |
| Release Date: | 25-FEB-16 |
| Date Generated: | Apr 15, 2016 |

Defects Fixed (1):

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| ID: | SCGCQ01020187 |
| Headline: | Junk character is seen when one of the enclosure is powered off while cursor is in Manage Volume screen. |
| Description Of Change: | When RAID volume screen is refreshed either manually (by pressing R) or automatically, the cursor remains on currently focused object. If that object is no longer available in new screen, that leaves the cursor on unreachable object. The fix is to refocus cursor on first object when ever refresh is issued. This makes sure the cursor will always be on reachable object. |
| Issue Description: | Junk character is seen when one of the enclosure is powered off while cursor is in Manage Volume screen. The character 369 appears when cursor is on a hot spare and that hot spare is power downed or removed while refreshing. |
| Steps To Reproduce: | 1. Flash the latest IR firmware and legacy BIOS on the Invader card - 3108. 2. Connect 2 enclosures to the card as in the topology below. HBA -> Enclosure 1 - Enclosure 2. 3. Create RAID 10 volume with 9 drives from Enclosure 1 and 1 drive from Enclosure 2. 4. Create a hot spare using drive from Enclosure 2. 5. Navigate to Manage Volume screen and move the cursor to the slot number of the Hot spare. 6. Power off Enclosure 2 and wait for refresh to happen. |

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| ReleaseOrder ID: | SCGCQ01002261 Open In CQWeb |
| Headline: | Alpha Release: BIOS_MPT_GEN3_Phase12.0 - 8.28.02. |
| Release Version: | 8.28.02.00 |
| UCM Project: | BIOS_MPT_GEN3_Phase12.0 |
| UCM Stream: | BIOS_MPT_GEN3_Phase12.0_Main_Dev |
| Release Type: | Alpha |
| State: | Superseded |
| Release Baseline: | BIOS_MPT_GEN3_Phase12.0_Main_Dev_2016-01-04@ \\SAS2 |
| Release Date: | 05-JAN-16 |
| Date Generated: | Apr 15, 2016 |

Defects Fixed (1):

ID: SCGCQ00996538 (Port Of Defect SCGCQ00988924)

Headline: INT 13 Function 48H doesn't show physical geometry of the drive, and hang with zero buffer size

Description Of Change: When OptionROM clears the memory that is supposed to hold device parameters, check is made to make sure that correct number of bytes are cleared.

Issue Description: 1) Boot to DOS with any SAS3008 IT/IR adapter installed and a single SAS drive.
2) Use Any DOS tool that can make calls to INT13:FUNC48 and pass buffer size as zero or 1.
3) Observe that the tool hangs (or never returns with any results).

Steps To Reproduce: 1) Boot to DOS with any SAS3008 IT/IR adapter installed and a single SAS drive.
2) Use Any DOS tool that can make calls to INT13:FUNC48 and pass buffer size as zero or 1.
3) Observe that the tool hangs (or never returns with any results).

ReleaseOrder ID: SCGCQ00994250 [Open In CQWeb](#)
Headline: Pre-Alpha Release: BIOS_MPT_GEN3_Phase12.0 - 8.28
Release Version: 8.28.01.00
UCM Project: BIOS_MPT_GEN3_Phase12.0
UCM Stream: BIOS_MPT_GEN3_Phase12.0_Main_Dev
Release Type: Pre-Alpha
State: Superseded
Release Baseline: BIOS_MPT_GEN3_Phase12.0_Main_Dev_2015-12-14@
SAS2
Release Date: 17-DEC-15
Date Generated: Apr 15, 2016

Defects Fixed (1):

ID: SCGCQ00987624 (Port Of Defect SCGCQ00980976)

Headline: Wrong values of Cylinders, Heads, and Sectors are reported on a 4K drive.

Description Of Change: Before reading Master Boot Record of a drive, check the sector size of the drive. If it is 4K, then increase the buffer size to 4K bytes to hold the complete data of one sector. If the drive is 512 Bytes then existing 512 Bytes of buffer is sufficient. Same change is applied to CU while determining if drive has any data.

Issue Description: Wrong values of Cylinders, Heads, and Sectors are reported on a 4K drive when inquired from a DOS tool that can read function 48 extended parameters.

Steps To Reproduce: Connect a 4K drive and read its Cylinders, Heads, Sectors values from any utility. Check if the values are exactly matching with that of physical values on drive.

Enhancements Implemented (1):

ID: SCGCQ00850331

Headline: With expander buffer enabled, Negotiated Link Speed and Maximum Link Speed of 3008 and 3108 in BIOS CU display are inconsistent.

Description Of Change: To be in consistent with other utilities (such as MR CU), BIOS CU topology has been changed as below.
1. SAS Topology Screen: Negotiated Link Speed (Gbps) and Maximum Link Speed (Gbps) are changed to Neg. Physical Link Rate (Gbps) and Neg. Logical Link Rate (Gbps) respectively.
2. Device Properties screen: Neg Link Speed is changed to Neg. Physical Link Rate (No Databolt display for this field). Added a new field Neg. Logical Link Rate with possible (Databolt) text.