

ReleaseOrderPkg ID: SCGCQ00859116 [Open In CQWeb](#) [Download](#)
Headline: MR 5.13 MR_iMR_TB LSI Point Release Package - Release_iMR_3.450.84-4419_MR_3.450.85-4420
Package_Type: MR Thunderbolt MR_iMR_TB Release Package
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Point Release (SCGCQ00859119) - iMR Firmware - 3.450.84-4419

ReleaseOrderID: SCGCQ00859119 [Open In CQWeb](#) [Download](#)
Headline: Point Release: MR_FW_SAS2.5_5.13 - 3.450.84-4419 iMR Firmware
Release Version: 3.450.84-4419
Product Org: MegaRAID
Product Gen: SAS2.5
Product Family: MR_FW
UCM Project: MR_FW_SAS2.5_5.13
Release Type: Point
UCM Stream: MR_FW_SAS2.5_5.13_Rel
Owner: buildsvc
Release Baseline: MR_FW_SAS2.5_5.13-2015-05-12-3.450.84-4419_REL_1431467974@MegaRAID
Release Date / Time: 12-MAY-15
Release Type: Point

iMR Firmware Defects Fixed (4):

Defect ID: SCGCQ00854914

Headline: Avoid VMWare crash when guest OS is powered on/off

Description Of Change: Initialization of compatibility feature structure is done after cache is flushed.

Issue Description: Critical boot message issue when VMware is powered on/off due to mismatch in compatibility features in dram persistent and nvram

Steps To Reproduce: TestCaseName: Configure hba as PCIe passthru device with VMDirectPath
 Description: Configure hba as PCIe passthru device with VMDirectPath

Step Number: 1
 Step Details: Boot to EXSi host. (boot drive should not be behind controller)
 Step Expected Result:

Step Number: 2
 Step Details: For HBA under test, Create a VM and install Ubuntu guest OS.
 Step Expected Result:

Step Number: 3
 Step Details: Configure HBA as a PCIe passthru device with VMDirectPath.
 Step Expected Result:

Step Number: 4
 Step Details: Assign HBA to the VM
 Step Expected Result:

Step Number: 5
 Step Details: Power on/off the VM and make sure TB can boot up properly and the drives connected to it can be detected. (use lsscsi command to verify)

Power off the VM using 'vim-cmd vmvc/power.off' and powering the VM back on in a loop
 Attached is the script (please rename to .sh) that I use to reproduce the issue. You will need to copy the your ssh key (\$HOME/.ssh/id_rsa.pub) file contents to /etc/ssh/keys-root/
 authorized_keys for the script to login to ESXi host without password
 Usage: lsi-vm-pwrcycle.sh -h <ESXi Host IP> -v <Guest VM ID> -i <Guest VM IP>
 ESXi HOST IP - IP Address or dns name of the ESXi HOST on which the VM is running.
 Guest VM ID - Use 'vim-cmd vmvc/getallvms' to list all the VMs. The first column lists the VM ID.
 Guest VM IP - IP address of the Guest VM for the script to ping to see if the VM booted ok.
 The script typically runs for a number of iterations before it fails.
 Step Expected Result: No FW hang and VD/Datastores are intact.

Controller hits Montask after power on/off cycle of guest OS
 Usually fails within 5 cycles

Defect ID: SCGCQ00832908

Headline: MSM displays error message if 'Schedule Consistency Check' is selected.

Description Of Change: Set the maximum CC Lds of CC schedule according to the legacy mode and 240 VD support, so that correct value can be sent to MSM via Get DCMD command.

Issue Description: MSM sends MR_DCMD_CTRL_CC_SCHEDULE_SET_PROPERTIES DCMD to set the CC schedule properties. As part of this DCMD, MSM sends ccScheduleProp.maxLds value as 240. FW will do preliminary check in CcSchedulePropertiesSetLegacy(). If ccScheduleProp.maxLds > MAX_LD_LEGACY(64) then FW returns as INVALID PARAMETER.

Prior to sending MR_DCMD_CTRL_CC_SCHEDULE_SET_PROPERTIES DCMD, MSM fetches ccScheduleProp.maxLds value by sending MR_DCMD_CTRL_CC_SCHEDULE_GET_PROPERTIES DCMD. FW will set ccScheduleProp.maxLds value to 240 in CcSchedulePropertiesGetLegacy and returns the value for MR_DCMD_CTRL_CC_SCHEDULE_GET_PROPERTIES DCMD. Since FW sets ccScheduleProp.maxLds value to 240(ccSchedule.maxCCLds) in GET DCMD, same will be sent as part of SET DCMD.

Steps To Reproduce: Create VD.
 Select Schedule Consistency Check with MSM, and error will be displayed as "The requested command has invalid arguments"

Defect ID: SCGCQ00840253

Headline: Handling Functional Level Reset (FLR) .

Description Of Change: FLR has been disabled in the FW. This will ensure that a PCI reset occurs.

Issue Description: FLR handling is not present in current MegaRAID thunderbolt firmware

Steps To Reproduce: N/A

iMR Firmware Enhancements Implemented (4):

EnhancementRequest ID: SCGCQ00856580

Headline: Fault LED support for predictive failure drives for SGPIO

Description Of Change: Predictive failure LED support will be enabled based on the corresponding value set in NVDATA. For drives with predictive failure, the sgpio slot status returned will be that of drive predictive failure.

EnhancementRequest ID: SCGCQ00856979

Headline: WT and WB cached policies can be changed via Windows Logical Disk Properties.

Description Of Change: Prevent disk write cache policies being changed from Windows Logical Disk properties for specific OEM.

EnhancementRequest ID: SCGCQ00858140

Headline: SGPIO LED behavior updated

Description Of Change: Customer requires change in SGPIO LED behavior.

EnhancementRequest ID: SCGCQ00758178

Headline: MegaRAID CPLD update improvements

Description Of Change: In order to avoid updating wrong CPLD ROM file on a particular controller, CPLD version check feature is added. Before updating CPLD, FW will verify the Base Part Number and if that is valid then only allow CPLD updated. However, force option from app can be used to force update CPLD even if the version is not matching.

GCA Release (SCGCQ00558768) - FCODE - 4.16.08.00

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ReleaseOrderID: SCGCQ00558768 [Open In CQWeb](#) [Download](#)

Headline: Fcode 4.16.08.00

Release Version: 4.16.08.00

Product Org: MegaRAID

Product Gen: SAS3

Product Family: MR_BIOS

UCM Project: MR_FCODE

Release Type: GCA

UCM Stream: MR_FCODE_Rel

Owner: sramach

Release Baseline: MR_FCODE_Rel_2013-11-14_v4.16.08.00@MegaRAID

Release Date / Time: 14-NOV-13

Release Type: GCA

FCODE Defects Fixed (1):

Defect ID: SCGCQ00553069

Headline: PCLI(1.07.05) Sparc: Command "cli set securitykey=Lsi@12345" fails with errcd "1001" and errmsg "invalid key".

Description Of Change: Root cause: Fcode CLI is converting all characters in string to lower case to make it easier to find sub strings

Fix: Dont convert characters to lower case; keep it as is; while searching for sub strings ignore case

Issue Description: PCLI Sparc: Command "cli set securitykey=Lsi@12345" fails with errcd "1001" and errmsg "invalid key".

Steps To Reproduce: 1)Connect an Invader actrus card to sparc server.
2)Flash the latest Invader FW(4.220.00-2914) that supports PCLI from MR 6.2 bucket.
3)Now boot into PCLI on controller.
4)Now try to set the securitykey for controller with command "cli set securitykey=xxxxxx".
5)Observe that command fails with errcd "1001" and errmsg "invalid key".

```
{2} ok cli set securitykey=Lsi@12345
cmd: /c0 set securitykey=Lsi@12345
```

Security Key is case-sensitive. It must be between eight and thirty-two characters and contain at least one number, one lowercase letter, one uppercase letter and one non-alphanumeric character(e.g. < > @ +).

Controller = 0
Status = Failure
Description = None

Detailed Status :
=====

| Ctrl Method | Result | ErrMsg | ErrCd |
|------------------|-------------|--------|-------|
| 0 Set Security - | Invalid Key | | 1001 |

Point Release (SCGCQ00848409) - Hii - 03.11.08.02

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ReleaseOrderID: SCGCQ00848409 [Open In CQWeb](#) [Download](#)

Headline: MR 6.6/5.13 Patch HEFU HII Release(2208 and 3108) - v03.11.08.02

Release Version: 03.11.08.02

Product Org: MegaRAID

Product Gen: SAS3

Product Family: MR_BIOS

UCM Project: MR_SAS_HEFU_HII_6.6

Release Type: Point

UCM Stream: MR_SAS_HEFU_HII_6.6_5.13_Patch

Owner: shrpatil

Release Baseline: MR_SAS_HEFU_HII_6.6_5.13_Patch_2015-04-15_v03.11.08.02@MegaRAID

Release Date / Time: 15-APR-15

Release Type: Point

Hii Enhancements Implemented (1):

Point Release (SCGCQ00824720) - UEFI_Driver - 0x060B0201

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ReleaseOrderID: SCGCQ00824720 [Open In CQWeb](#) [Download](#)

Headline: MR 5.13/MR 6.6 Patch UEFI Driver 0x060B0201 (SIGNED)

Release Version: 0x060B0201

Product Org: MegaRAID

Product Gen: SAS3

Product Family: MR_BIOS

UCM Project: MR_UEFI_Driver_6.6

Release Type: Point

UCM Stream: MR_UEFI_Drv_6.6_5.13_Patch

Owner: dsamuelf

Release Baseline: MR_UEFI_Drv_6.6_5.13_Patch_2015-02-12_0x060B0201_SIGNED@
MegaRAID

Release Date / Time: 12-FEB-15

Release Type: Point

UEFI_Driver Enhancements Implemented (2):

EnhancementRequest ID: SCGCQ00813456

Headline: UEFI Driver: Rebranding effort for System X - MR 6.6 PnP Additions for Lenovo System X

Description Of Change: For Lenovo's System X controllers. Added the following PnP IDs to Feature on Demand key table,

| | | | |
|------|------|------|------|
| 1000 | 005F | 1D49 | 04B4 |
| 1000 | 005D | 1D49 | 045C |
| 1000 | 005D | 1D49 | 045B |
| 1000 | 005F | 1D49 | 04AC |
| 1000 | 005D | 1D49 | 045A |
| 1000 | 005D | 1D49 | 04E6 |
| 1000 | 005F | 1D49 | 04DB |

EnhancementRequest ID: SCGCQ00819632

Headline: Rebranding effort for System X - MR 5.13 PnP Addition for Lenovo System X

Description Of Change: Add the FOD keys for Lenovo System X devices

Point Release (SCGCQ00820039) - BIOS - 5.49.03.1

ReleaseOrderID: SCGCQ00820039 [Open In CQWeb](#) [Download](#)

Headline: MR 5.13 BIOS Patch 5.49.03.1 for TB

Release Version: 5.49.03.1

Product Org: MegaRAID

Product Gen: SAS2.5

Product Family: MR_BIOS

UCM Project: MR_SAS_BIOS_5.13

Release Type: Point

UCM Stream: MR_SAS_BIOS_6.6_5.13_Patch

Owner: sramach

Release Baseline: MR_SAS_BIOS_6.6_5.13_Patch_2015-02-02_v6.22.03.1_5.49.03.1@
MegaRAID

Release Date / Time: 02-FEB-15

Release Type: Point

BIOS Defects Fixed (3):

Defect ID: SCGCQ00799339

Headline: Legacy OpROM : Legacy OpROM doesn't show proper PCI slot number on Intel WCP system.

Description Of Change: Reissue the INT 1Ah call if system bios fails it with bad buffer size (0x89).

Issue Description: OpROM is not displaying the correct PCI slot number because OpROM is passing small buffer size (1k) whereas system bios expecting bigger size (basically system bios fails INT1Ah call stating that buffer size is small).

Steps To Reproduce: 1. Connect 3108 controller on Intel WCP system.
2. Go to OpROM POST. The PCI slot number is not shown properly.

Defect ID: SCGCQ00808086

Headline: LegacyBIOS - Exposes "SecureJBOD" to system BIOS when 'Ask password at boot' entered wrongly

Description Of Change: Add the JBOD/VDs to INT13 chain which can be exposed to host.

Issue Description: When user enters 3 times wrong password at the boot time, the secured configuration cannot be accessed. The corresponding JBOD/VD shouldn't be added to the INT13 chain.

Steps To Reproduce: Create a secure JBOD.
Enter 3 times wrong password at the boot time.

Defect ID: SCGCQ00809682

Headline: BIOS - Shows expander as JBOD in POST

Description Of Change: When apps queries FW for the PD LIST (MR_DCMD_PD_LIST_QUERY) with query type MR_PD_QUERY_TYPE_EXPOSED_TO_HOST, we get the list that contains SEP, CD-ROM, TAPE devices. We need to filter and add only DISK devices.

Issue Description: The expander device is shown as JBOD in the OpROM POST.

Steps To Reproduce: 1. Connect an expander to the controller.
2. In the OpROM POST, the expander is shown as 1 JBOD found on the host adapter.

Point Release (SCGCQ00859118) - MR Firmware - 3.450.85-4420

ReleaseOrderID: SCGCQ00859118 [Open In CQWeb](#) [Download](#)

Headline: Point Release: MR_FW_SAS2.5_5.13 - 3.450.85-4420 MR Firmware

Release Version: 3.450.85-4420

Product Org: MegaRAID

Product Gen: SAS2.5

Product Family: MR_FW

UCM Project: MR_FW_SAS2.5_5.13

Release Type: Point

UCM Stream: MR_FW_SAS2.5_5.13_Rel

Owner: buildsvc

Release Baseline: MR_FW_SAS2.5_5.13-2015-05-12-3.450.85-4420_REL_1431467837@
MegaRAID

Release Date / Time: 12-MAY-15

Release Type: Point

MR Firmware Defects Fixed (4):

Defect ID: SCGCQ00854914

Headline: Avoid VMWare crash when guest OS is powered on/off

Description Of Change: Initialization of compatibility feature structure is done after cache is flushed.

Issue Description: Critical boot message issue when VMWare is powered on/off due to mismatch in compatibility features in dram persistent and nvram

Steps To Reproduce: TestCaseName: Configure hba as PCIe passthru device wiht VMDirectPath
Description: Configure hba as PCIe passthru device wiht VMDirectPath

Step Number: 1
Step Details: Boot to EXSi host. (boot drive should not be behind controller)
Step Expected Result:

Step Number: 2

Step Details: For HBA under test, Create a VM and install Ubuntu guest OS.
Step Expected Result:

Step Number: 3
Step Details: Configure HBA as a PCIE passthru device with VMDirectPath.
Step Expected Result:

Step Number: 4
Step Details: Assign HBA to the VM
Step Expected Result:

Step Number: 5
Step Details: Power on/off the VM and make sure TB can boot up properly and the drives connected to it can be detected. (use lsscsi command to verify)

Power off the VM using 'vim-cmd vmsvc/power.off' and powering the VM back on in a loop
Attached is the script (please rename to .sh) that I use to reproduce the issue. You will need to copy the your ssh key (\$HOME/.ssh/id_rsa.pub) file contents to /etc/ssh/keys-root/
authorized_keys for the script to login to ESXi host without password
Usage: lsi-vm-pwrcycle.sh -h <ESXi Host IP> -v <Guest VM ID> -i <Guest VM IP>
ESXi HOST IP - IP Address or dns name of the ESXi HOST on which the VM is running.
Guest VM ID - Use 'vim-cmd vmsvc/getallvms' to list all the VMs. The first column lists the VM ID.
Guest VM IP - IP address of the Guest VM for the script to ping to see if the VM booted ok.
The script typically runs for a number of iterations before it fails.
Step Expected Result: No FW hang and VDs/Datastores are intact.

Controller hits Montask after power on/off cycle of guest OS
Usually fails within 5 cycles

Defect ID: SCGCQ00832908

Headline: MSM displays error message if 'Schedule Consistency Check' is selected.

Description Of Change: Set the maximum CC Lds of CC schedule according to the legacy mode and 240 VD support, so that correct value can be sent to MSM via Get DCMD command.

Issue Description: MSM sends MR_DCMD_CTRL_CC_SCHEDULE_SET_PROPERTIES DCMD to set the CC schedule properties. As part of this DCMD, MSM sends ccScheduleProp.maxLds value as 240. FW will do preliminary check in CcSchedulePropertiesSetLegacy(). If ccScheduleProp.maxLds > MAX_LD_LEGACY(64) then FW returns as INVALID PARAMETER.

Prior to sending MR_DCMD_CTRL_CC_SCHEDULE_SET_PROPERTIES DCMD, MSM fetches ccScheduleProp.maxLds value by sending MR_DCMD_CTRL_CC_SCHEDULE_GET_PROPERTIES DCMD. FW will set ccScheduleProp.maxLds value to 240 in CcSchedulePropertiesGetLegacy and returns the value for MR_DCMD_CTRL_CC_SCHEDULE_GET_PROPERTIES DCMD. Since FW sets ccScheduleProp.maxLds value to 240(ccSchedule.maxCCLds) in GET DCMD, same will be sent as part of SET DCMD.

Steps To Reproduce: Create VD.
Select Schedule Consistency Check with MSM, and error will be displayed as "The requested command has invalid arguments"

Defect ID: SCGCQ00840253

Headline: Handling Functional Level Reset (FLR) .

Description Of Change: FLR has been disabled in the FW. This will ensure that a PCI reset occurs.

Issue Description: FLR handling is not present in current MegaRAID thunderbolt firmware

Steps To Reproduce: N/A

MR Firmware Enhancements Implemented (4):

EnhancementRequest ID: SCGCQ00856580

Headline: Fault LED support for predictive failure drives for SGPIO

Description Of Change: Predictive failure LED support will be enabled based on the corresponding value set in NVDATA.
For drives with predictive failure, the sgpio slot status returned will be that of drive predictive failure.

EnhancementRequest ID: SCGCQ00856979

Headline: WT and WB cached policies can be changed via Windows Logical Disk Properties.

Description Of Change: Prevent disk write cache policies being changed from Windows Logical Disk properties for specific OEM.

EnhancementRequest ID: SCGCQ00858140

Headline: SGPIO LED behavior updated

Description Of Change: Customer requires change in SGPIO LED behavior.

EnhancementRequest ID: SCGCQ00758178

Headline: MegaRAID CPLD update improvements

Description Of Change: In order to avoid updating wrong CPLD ROM file on a particular controller, CPLD version check feature is added. Before updating CPLD, FW will verify the Base Part Number and if that is valid then only allow CPLD updated. However, force option from app can be used to force update CPLD even if the version is not matching.

GCA Release (SCGCQ00859105) - NVDATA - MR2.1503.03-0152;iMR2.1503.04-0143

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ReleaseOrderID: SCGCQ00859105 [Open In CQWeb](#) [Download](#)

Headline: MR 5.13 NVDATA Release: MR Version 2.1503.03-0152; iMR Version 2.1503.04-0143

Release Version: MR2.1503.03-0152;iMR2.1503.04-0143

Product Org: MegaRAID

Product Gen: SAS2.5

Product Family: MR_FW

UCM Project: MR_SAS_NVDATA2.5_5.13

Release Type: GCA

UCM Stream: MR_SAS_NVDATA2.5_5.13_Rel

Owner: amadhus

Release Baseline: MR_SAS_NVDATA2.5_5.13_Rel_2015-05-12_MR152_iMR143_release@MegaRAID

Release Date / Time: 12-MAY-15

Release Type: GCA

NVDATA Enhancements Implemented (4):

EnhancementRequest ID: SCGCQ00852102

Headline: Updated NVDATA for a specific customer.

Description Of Change: Updated several parameters in NVDATA pages for a specific customer.

EnhancementRequest ID: SCGCQ00857002

Headline: Fault LED support for predictive failure drives for SGPIO

Description Of Change: Added a new parameter predictiveFailureLED in MR_PARAMS_PAGE_0 which will be tunable from NVDATA.

EnhancementRequest ID: SCGCQ00858142

Headline: SGPIO LED behavior updated

Description Of Change: Customer requires change in SGPIO LED behavior.

EnhancementRequest ID: SCGCQ00797971

Headline: Changed SGPIO LED behavior in NVDATA for particular customer

Description Of Change: Customer wanted changes in SGPIO LED behavior . NVDATA has been modified to reflect this particular change.

Beta Release (SCGCQ00848005) - WebBIOS - 6.1-75-e_75-00-Rel

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ReleaseOrderID: SCGCQ00848005 [Open In CQWeb](#) [Download](#)

Headline: Beta Release: MR_SAS2.5_WebBIOS_5.13 - 6.1-75-e_75-00-Rel

Release Version: 6.1-75-e_75-00-Rel

Product Org: MegaRAID

Product Gen: SAS2.5

Product Family: MR_Preboot_Utils

UCM Project: MR_SAS2.5_WebBIOS_5.13

Release Type: Beta

UCM Stream: MR_SAS2.5_WebBIOS_5.13_Patch

Owner: shrpatil

Release Baseline: MR_SAS2.5_WebBIOS_5.13_Patch_2015-04-14_v6.1-75-e_75-Rel@MegaRAID

Release Date / Time: 15-APR-15

Release Type: Beta

WebBIOS Enhancements Implemented (1):

Point Release (SCGCQ00475200) - BootBlockCommon - 07.26.26.219

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ReleaseOrderID: SCGCQ00475200 [Open In CQWeb](#) [Download](#)

Headline: Release 5.2: MegaRAID SYNCRO ONLY Common BootBlock v07.26.26.219

Release Version: 07.26.26.219

Product Org: MegaRAID

Product Gen: SAS2.5

Product Family: MR_FW

UCM Project: MR_BOOT_BLOCK_COMMON_Rel

Release Type: Point

UCM Stream: MR_BOOT_BLOCK_COMMON_Rel_Int

Owner: srichant

Release Baseline: MR_BOOT_BLOCK_COMMON_Rel_4_10_2012@MegaRAID

Release Date / Time: 06-AUG-13

Release Type: Point

BootBlockCommon Enhancements Implemented (1):

EnhancementRequest ID: SCGCQ00472311

Headline: (CBB) Provide mechanism to disable PCIe backchannel training via SBR

Description Of Change: On a SAS2208 device if SBR is modified to set bit 4 of byte 0x5F then PCIe backchannel training will be disabled.

That bit is not set in a default SBR so normal operation is used by default.

Note: Byte 0x5F of the SBR is now reserved for CBB usage.

GCA Release (SCGCQ00356694) - PCL1 - 05.07.00

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ReleaseOrderID: SCGCQ00356694 [Open In CQWeb](#) [Download](#)

Headline: MR_SAS_5.5_MegaPCL1_05.07.00

Release Version: 05.07.00

Product Org: MegaRAID

Product Gen: SASx

Product Family: MR_OS_Utils

UCM Project: MR_SAS_CLI_5.5

Release Type: GCA

UCM Stream: MR_SAS_CLI_5.5_Rel

Owner: mjadamal

Release Baseline: MR_SAS_CLI_5.5_Rel_2012-11-14.1020@MegaRAID

Release Date / Time: 16-NOV-12

Release Type: GCA

PCL1 Defects Fixed (2):

Defect ID: SCGCQ00356037

Headline:

Description Of Change:

Issue Description: CLI Crashes When Running ADP FW Flash Command

Steps To Reproduce: ./MegaCli adpflash -f fw.rom -resetnow a0

./MegaCli adpflash -f fw.rom -a0

Defect ID: SCGCQ00356190

Headline: No controller properties for Online FW Update in MegaCLI

Description Of Change:

Issue Description: No controller properties for Online FW Update in MegaCLI

Steps To Reproduce: MegaCli adpallinfo a0

GCA Release (SCGCQ00356330) - BootBlock - 2.05.00.00-0010

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ReleaseOrderID: SCGCQ00356330 [Open In CQWeb](#) [Download](#)

Headline: MR 5.3 Bootblock rel-2.05.00.00-0010

Release Version: 2.05.00.00-0010

Product Org: MegaRAID

Product Gen: SAS2.5

Product Family: MR_FW

UCM Project: MR_BOOT_BLOCK_11M08_5.3

Release Type: GCA

UCM Stream: MR_BOOT_BLOCK_11M08_5.3_Rel

Owner: vanis

Release Baseline: MR_BOOT_BLOCK_11M08_5.3_Int_2012-11-12@
MegaRAID

Release Date / Time: 13-NOV-12

Release Type: GCA

BootBlock Defects Fixed (1):

Defect ID: SCGCQ00343311

Headline: SAS2208 FW MR 5.4 posting a "91" error code FW 23.9.0-015

Description Of Change: Fix : Reduced the bootblock Init time, which effectively reduced the config retry time to about 700 or so mS

Issue Description: Issue : Issue is basically ,the fix for PCI gen3 included a polling mechanism for link down reset detection which was increasing the time bootblock was taking. The polling was taking little too long. This was causing the config retry to be released after slightly more than 1 second. PCIe spec says this has to be 1000 mS maximum

Steps To Reproduce: Boot with latest MR5.4 package and in the FW log look for the print , "time till config valid"

1000 mS is the max a controller can take before config valid as per PCI spec
If it is taking close to or more than 1000mS then it is an issue.

GCA Release (SCGCQ00304181) - Ctrl-R - 4.02-0001

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ReleaseOrderID: SCGCQ00304181 [Open In CQWeb](#) [Download](#)

Headline: MR_SAS_Ctrl-R_MR5.4_2208_release_version_4.02-0001

Release Version: 4.02-0001

Product Org: MegaRAID

Product Gen: SAS2.5

Product Family: MR_Preboot_Utills

UCM Project: MR_SAS2.5_CtrlR_Perc8.1

Release Type: GCA

UCM Stream: MR_SAS2.5_CtrlR_Perc8.1_Rel

Owner: pravkuma

Release Baseline: MR_SAS2.5_CtrlR_Perc8.1_Rel_2012-07-10_Ver_4.02-0001@/
MegaRAID

Release Date / Time: 10-JUL-12

Release Type: GCA

GCA Release (SCGCQ00258748) - ROMENV - 1.08

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ReleaseOrderID: SCGCQ00258748 [Open In CQWeb](#) [Download](#)

Headline: 11M06 TB ROMENV Release

Release Version: 1.08

Product Org: MegaRAID

Product Gen: SAS2

Product Family: MR_Apps

UCM Project: MR_ROMENV

Release Type: GCA

UCM Stream: MR_ROMENV_Int

Owner: chammond

Release Baseline: 1.08

Release Date / Time: 12-MAR-12

Release Type: GCA