



ReleaseOrderPkg ID: SCGCQ01184445 [Open In CQWeb](#) [Download](#)  
Headline: MR 5.14 MR\_iMR\_TB LSI Point release package - Release\_iMR\_\_3.460.114-6464\_MR\_3.460.115-6465  
Package\_Type: MR Thunderbolt MR\_iMR\_TB Release Package  
Tier Account: LSI Generic  
Package\_Version: 23.34.0-0019  
Date Generated: Sep 16, 2016

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Point Release (SCGCQ01184447) - iMR Firmware - 3.460.114-6464

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ReleaseOrderID: SCGCQ01184447 [Open In CQWeb](#) [Download](#)  
Headline: Point Release: MR\_FW\_SAS2.5\_5.14 - 3.460.114-6464 iMR Firmware  
Release Version: 3.460.114-6464  
Product Org: MegaRAID  
Product Gen: SAS2.5  
Product Family: MR\_FW  
UCM Project: MR\_FW\_SAS2.5\_5.14  
Release Type: Point  
UCM Stream: MR\_FW\_SAS2.5\_5.14\_Rel  
Owner: buildsvc  
Release Baseline: MR\_FW\_SAS2.5\_5.14-2016-09-16-3.460.114-6464\_REL\_1474055582@  
MegaRAID  
Release Date / Time: 16-SEP-16  
Release Type: Point

iMR Firmware Defects Fixed (7):

Defect ID: SCGCQ01157490  
Headline: copyback=off reverts to on after restart/ocr  
Description Of Change: Copyback will now retain its setting across boots.  
Issue Description: Copyback was being set to ON after any reboot or OCR  
Steps To Reproduce: Set Copyback = OFF and reboot system

Defect ID: SCGCQ01181295  
Headline: Copyback not automatically initiating when manually setting drives to Unconfigured\_Good  
Description Of Change: FW will begin copyback on drives manually converted to Unconfigured Good  
Issue Description: Copyback not automatically starting when manually converting drives to unconfigured good  
Steps To Reproduce: 1- Physically pull drive from slot 0.  
2- Hotspare drive engages and rebuilds successfully.  
3- Take pulled drive to another server and insert drive.  
4- Drive shows as Foreign UG  
7- Clear foreign configuration.  
8- Drive is now UG.  
9- Pull drive or select Prepare for Removal.  
10- Re-insert drive into original server.  
11- Drive is marked as UB.  
12- Change drive to UG.  
13 Copyback will not start.

Defect ID: SCGCQ01118285  
Headline: Data Miscompare found during recovery of CacheCade pinned windows across OCR/Reboot or discard of CacheCade pinned windows while CacheCade degrade flush in progress  
Description Of Change: At Boot/OCR time, in presence of pinned cache move all unpinned windows of a degraded CCVD windows to read-only. Such that there won't be any dirty windows generated and only pinned windows are need to be flushed as part of pinned cache recovery.  
As part of discard pinned window operation, if CacheCade degrade flush in progress, refrain from reorganizing the windows of a degraded CCVD and defer it till degrade flush completion. On completion of the degrade flush, CCVD windows are any way re-organized.  
Issue Description: Heavy IOs run on CacheCade associated SVDs, pinned cache generated on CCVD by pulling out some drives from one of the SVD and IOs continue on remaining SVDs. Also degrade one of the CCVDs by pulling out one of the SSD drives. In this state, OCR/Reboot along with continuing IOs followed by pinned cache recovery results in data miscompare.  
The data miscompare is also seen with deletion of pinned cache windows while CCVD degrade flush in progress. The discard pinned cache data miscompare is relevant for both before OCR or after OCR with CCVD degrade flush in progress.  
Steps To Reproduce: Recover pinned cache:  
Create 2 SVDs of any RAID level  
Cerate 1 R1 CCVD using 2 SSD PDs  
Associate SVDs with CacheCade  
Run heavy IOs on CacheCade associated SVDs  
Generate pinned cahe on CCVD by pulling out PDs of one of SVD, such that it becoms offline  
IOs continue on remaining SVDs  
Degrade one of the CCVDs by pulling out one of the SSD drives  
In this state, OCR along with continuing IOs  
Recover pinned cache by putting back the pulled out PDs and SSD PD and foreign import results in data miscompare  
  
Discard Pinned Cache:  
Create 2 SVDs of any RAID level  
Cerate 1 R1 CCVD using 2 SSD PDs  
Associate SVDs with CacheCade  
Run heavy IOs on CacheCade associated SVDs  
Generate pinned cahe on CCVD by pulling out PDs of one of SVD, such that it becoms offline  
IOs continue on remaining SVDs  
Degrade one of the CCVDs by pulling out one of the SSD drives  
CacheCade degrade flush kicks in  
While degrade flush in progress, discard pinned cache result in data loss

Defect ID: SCGCQ00713024  
Headline: Foreign config import fails with DDF corruption  
Description Of Change: maximum number of foreign configs is extend from 8 to 32 and the new macro is introduced with value 32.  
Issue Description: Foreign config import fails with DDF corruption

Steps To Reproduce: none

Defect ID: SCGCQ01155622

Headline: First learn on New CacheVault connected will timeout cause factory line down

Description Of Change: Learncycle failed and learncycle timeout fields are reset when a new learn is initiated.

Issue Description: When a learn cycle fails, FW sets learncycle failed and learncycle timeout fields to TRUE. FW does not reset these fields when a new learn cycle starts and completes.

FW now resets learncycle failed and learncycle timeout fields when a new learn is initiated.

Steps To Reproduce: To emulate the behavior:

Set the learnCycleTimeout and learnCycleFailed from MegaMon -> This simulates the LCTO event in the FW.

Initiate a manual relearn. After relearn completes, check the above two flags.

Defect ID: SCGCQ01142402

Headline: System stall after sense key 04/c4/01 in HSP disk and controller reset repeatedly

Description Of Change: FW will now fail Hot Spare if the disk is continually reporting a hardware error.

Issue Description: By looking at the event log and FW log, it seems that FW did 5 times retry (and one original command) and get the sense of 04/c4/01 for each command. Since all of the commands were failed with the same manner (i.e. 04/c4/01), it prolongs for a long time.

It seems that after retries are not successful, FW does NOT faile the disk because it it HSP.

Steps To Reproduce: Create hotspare status on a bad drive, FW will repeatedly report hardware error sense but never fail the drive.

Defect ID: SCGCQ00949650

Headline: VD erase doesn't complete if VD ID number is changed while the task is on going

Description Of Change: On deleting an LD the LD number gets modified to keep and LD info structure is shifted accordingly. The init bit in LD info was being cleared after the LD info stucture was shifted due to this we were clearing the bit for the wrong LD. Also the LD active init map in PD Info should be modified according to the the shift in LD number and LD info.

Issue Description: Created 2 R0 VDs on 2 SAS HDDs.  
Started normal VD erase on both VD's. After VD erase is completed on one VD and before erase is completed on second VD, first VD is deleted.  
Then, VD erase on second VD never completes.

Steps To Reproduce: 1. Create a R0 VD on one HDD.  
2. Create another R0 VD on one HDD.  
3. Start VD erase (normal, delete after completion option enabled if available).  
4. If delete after completion option enabled is not available, delete the first VD that erase was completed before erase on second VD completes.

GCA Release (SCGCQ00791254) - FCODE - 4.17.08.00



ReleaseOrderID: SCGCQ00791254\_ [Open In CQWeb](#) [Download](#)

Headline: Fcode 4.17.08.00

Release Version: 4.17.08.00

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\_2014-11-07\_v4.17.08.00@MegaRAID

Release Date / Time: 07-NOV-14

Release Type: GCA

FCODE Enhancements Implemented (1):

EnhancementRequest ID: SCGCQ00791238

Headline: Update Attribution Language - Copyright, Trademark, Confidentiality to Avago

Description Of Change: All the source code, customer visible banners/logo's and copyright information are changed as required

Point Release (SCGCQ01126875) - Hii - 03.17.14.04



ReleaseOrderID: SCGCQ01126875\_ [Open In CQWeb](#) [Download](#)

Headline: MR 6.9/5.14 Patch HEFU HII (2208 and 3108) - v03.17.14.04 (SIGNED)

Release Version: 03.17.14.04

Product Org: MegaRAID

Product Gen: SAS3

Product Family: MR\_BIOS

UCM Project: MR\_SAS\_HEFU\_HII\_6.9

Release Type: Point

UCM Stream: MR\_SAS\_HEFU\_HII\_6.9\_Intruder\_Patch

Owner: sramach

Release Baseline: MR\_SAS\_HEFU\_HII\_6.9\_Intruder\_Patch\_2016-06-28\_v03.17.14.04@MegaRAID

Release Date / Time: 28-JUN-16

Release Type: Point

GCA Release (SCGCQ00908099) - UEFI\_Driver - 0x06110200



ReleaseOrderID: SCGCQ00908099\_ [Open In CQWeb](#) [Download](#)

Headline: MR 6.9/5.14 UEFI Driver (2208, 3108 and 3324) 0x06110200 (SIGNED)

Release Version: 0x06110200

Product Org: MegaRAID

Product Gen: SAS3

Product Family: MR\_BIOS

UCM Project: MR\_UEFI\_Drv\_6.9

Release Type: GCA

UCM Stream: MR\_UEFI\_Drv\_6.9\_Intruder\_Rel

Owner: sramach

Release Baseline: MR\_UEFI\_Drv\_6.9\_Intruder\_Rel\_2015-08-28\_v0x06110200signed@MegaRAID

Release Date / Time: 28-AUG-15

Release Type: GCA

GCA Release (SCGCQ00890432) - BIOS - 5.50.03.0



ReleaseOrderID: SCGCQ00890432\_ [Open In CQWeb](#) [Download](#)

Headline: MR 5.14 BIOS 5.50.03.0 for TB

Release Version: 5.50.03.0

Product Org: MegaRAID

Product Gen: SAS2.5

Product Family: MR\_BIOS

UCM Project: MR\_SAS\_BIOS\_5.14

Release Type: GCA

UCM Stream: MR\_SAS\_BIOS\_6.9\_Intruder\_Rel  
Owner: buildsvc  
Release Baseline: MR\_SAS\_BIOS\_5.14-2015-07-21-5.50.03.0\_REL\_1437539076@\\MegaRAID  
Release Date / Time: 22-JUL-15  
Release Type: GCA

BIOS Defects Fixed (1):

**Defect ID:** SCGCQ00882729  
**Headline:** Legacy OpROM: Controller POST shows JBOD found on host adapter, when number of INT13 device is > deviceExposure  
**Description Of Change:** When the number of INT13 devices exceeds MAX\_INT13DISK, remove-the NON-DISK devices from the bootable PD count that is used to display the number in the POST.  
**Issue Description:** When the number of INT13 devices (the devices are part of the enclosure) exceeds the MAX\_INT13DISK, the BIOS POST shows JBODs present, eventhough there are no JBODs present in the configuration.  
**Steps To Reproduce:** 1. Have 9 VDs created in the enclosure, and connect the enclosure to the controller.  
2. Set the biosData.deviceExposure to 8.  
3. Reboot the system.  
4. In the BIOS POST, the below message is seen even when there are no JBODs present in the configuration.  
1 JBOD(s) found on the host adapter

Point Release (SCGCQ01184446) - Firmware - 3.460.115-6465

ReleaseOrderID: SCGCQ01184446 [Open In CQWeb](#) [Download](#)  
**Headline:** Point Release: MR\_FW\_SAS2.5\_5.14 - 3.460.115-6465 Firmware  
**Release Version:** 3.460.115-6465  
**Product Org:** MegaRAID  
**Product Gen:** SAS2.5  
**Product Family:** MR\_FW  
**UCM Project:** MR\_FW\_SAS2.5\_5.14  
**Release Type:** Point  
**UCM Stream:** MR\_FW\_SAS2.5\_5.14\_Rel  
**Owner:** buildsvc  
**Release Baseline:** MR\_FW\_SAS2.5\_5.14-2016-09-16-3.460.115-6465\_REL\_1474055517@\\MegaRAID  
**Release Date / Time:** 16-SEP-16  
**Release Type:** Point

Firmware Defects Fixed (7):

**Defect ID:** SCGCQ01157490  
**Headline:** copyback=off reverts to on after restart/ocr  
**Description Of Change:** Copyback will now retain its setting across boots.  
**Issue Description:** Copyback was being set to ON after any reboot or OCR  
**Steps To Reproduce:** Set Copyback = OFF and reboot system

**Defect ID:** SCGCQ01181295  
**Headline:** Copyback not automatically initiating when manually setting drives to Unconfigured\_Good  
**Description Of Change:** FW will begin copyback on drives manually converted to Unconfigured Good  
**Issue Description:** Copyback not automatically starting when manually converting drives to unconfigured good  
**Steps To Reproduce:** 1- Physically pull drive from slot 0.  
2- Hotspare drive engages and rebuilds successfully.  
3- Take pulled drive to another server and insert drive.  
4- Drive shows as Foreign UG  
7- Clear foreign configuration.  
8- Drive is now UG.  
9- Pull drive or select Prepare for Removal.  
10- Re-insert drive into original server.  
11- Drive is marked as UB.  
12- Change drive to UG.  
13 Copyback will not start.

**Defect ID:** SCGCQ01118285  
**Headline:** Data Mismatch found during recovery of CacheCade pinned windows across OCR/Reboot or discard of CacheCade pinned windows while CacheCade degrade flush in progress  
**Description Of Change:** At Boot/OCR time, in presence of pinned cache move all unpinned windows of a degraded CCVD windows to read-only. Such that there won't be any dirty windows generated and only pinned windows are need to be flushed as part of pinned cache recovery.  
As part of discard pinned window operation, if CacheCade degrade flush in progress, refrain from reorganizing the windows of a degraded CCVD and defer it till degrade flush completion. On completion of the degrade flush, CCVD windows are any way re-organized.  
**Issue Description:** Heavy IOs run on CacheCade associated SVDs, pinned cache generated on CCVD by pulling out some drives from one of the SVD and IOs continue on remaining SVDs. Also degrade one of the CCVDs by pulling out one of the SSD drives. In this state, OCR/Reboot along with continuing IOs followed by pinned cache recovery results in data mismatch.  
The data mismatch is also seen with deletion of pinned cache windows while CCVD degrade flush in progress. The discard pinned cache data mismatch is relevant for both before OCR or after OCR with CCVD degrade flush in progress.  
**Steps To Reproduce:** Recover pinned cache:  
Create 2 SVDs of any RAID level  
Cerate 1 R1 CCVD using 2 SSD PDs  
Associate SVDs with CacheCade  
Run heavy IOs on CacheCade associated SVDs  
Generate pinned cahe on CCVD by pulling out PDs of one of SVD, such that it becoms offline  
IOs continue on remaining SVDs  
Degrade one of the CCVDs by pulling out one of the SSD drives  
In this state, OCR along with continuing IOs  
Recover pinned cache by putting back the pulled out PDs and SSD PD and foreign import results in data mismatch  
  
Discard Pinned Cache:  
Create 2 SVDs of any RAID level  
Cerate 1 R1 CCVD using 2 SSD PDs  
Associate SVDs with CacheCade  
Run heavy IOs on CacheCade associated SVDs  
Generate pinned cahe on CCVD by pulling out PDs of one of SVD, such that it becoms offline  
IOs continue on remaining SVDs  
Degrade one of the CCVDs by pulling out one of the SSD drives  
CacheCade degrade flush kicks in  
While degrade flush in progress, discard pinned cache result in data loss

**Defect ID:** SCGCQ00713024  
**Headline:** Foreign config import fails with DDF corruption  
**Description Of Change:** maximum number of foreign configs is extend from 8 to 32 and the new macro is introduced with value 32.  
**Issue Description:** Foreign config import fails with DDF corruption  
**Steps To Reproduce:** none

**Defect ID:** SCGCQ01155622  
**Headline:** First learn on New CacheVault connected will timeout cause factory line down  
**Description Of Change:** Learncycle failed and learncycle timeout fields are reset when a new learn is initiated.  
**Issue Description:** When a learn cycle fails, FW sets learncycle failed and learncycle timeout fields to TRUE. FW does not reset these fields when a new learn cycle starts and completes.  
  
FW now resets learncycle failed and learncycle timeout fields when a new learn is initiated.  
**Steps To Reproduce:** To emulate the behavior:  
  
Set the learnCycleTimeout and learnCycleFailed from MegaMon -> This simulates the LCTO event in the FW.

Initiate a manual relearn. After relearn completes, check the above two flags.

**Defect ID:** SCGCQ01142402  
**Headline:** System stall after sense key 04/c4/01 in HSP disk and controller reset repeatedly  
**Description Of Change:** FW will now fail Hot Spare if the disk is continually reporting a hardware error.  
**Issue Description:** By looking at the event log and FW log, it seems that FW did 5 times retry (and one original command) and get the sense of 04/c4/01 for each command. Since all of the commands were failed with the same manner (i.e. 04/c4/01), it prolongs for a long time.  
  
It seems that after retries are not successful, FW does NOT faile the disk because it it HSP.  
**Steps To Reproduce:** Create hotspare status on a bad drive, FW will repeatedly report hardware error sense but never fail the drive.

**Defect ID:** SCGCQ00949650  
**Headline:** VD erase doesn't complete if VD ID number is changed while the task is on going  
**Description Of Change:** On deleting an LD the LD number gets modified to keep and LD info structure is shifted accordingly. The init bit in LD info was being cleared after the LD info stucture was shifted due to this we were clearing the bit for the wrong LD. Also the LD active init map in PD Info should be modified according to the the shift in LD number and LD info.  
**Issue Description:** Created 2 R0 VDs on 2 SAS HDDs. Started normal VD erase on both VDs. After VD erase is completed on one VD and before erase is completed on second VD, first VD is deleted. Then, VD erase on second VD never completes.  
**Steps To Reproduce:** 1. Create a R0 VD on one HDD.  
2. Create another R0 VD on one HDD.  
3. Start VD erase (normal, delete after completion option enabled if available).  
4. If delete after completion option enabled is not available, delete the first VD that erase was completed before erase on second VD completes.

Point Release (SCGCQ01129434) - NVDATA - MR2.1507.03-0162;IMR2.1507.04-0157

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**ReleaseOrderID:** SCGCQ01129434\_ [Open In CQWeb](#) [Download](#)  
**Headline:** MR 5.14 NVDATA Release: MR Version 2.1507.03-0162; iMR Version 2.1507.04-0157  
**Release Version:** MR2.1507.03-0162;iMR2.1507.04-0157  
**Product Org:** MegaRAID  
**Product Gen:** SAS2.5  
**Product Family:** MR\_FW  
**UCM Project:** MR\_SAS\_NVDATA2.5\_5.14  
**Release Type:** Point  
**UCM Stream:** MR\_SAS\_NVDATA2.5\_5.14\_Rel  
**Owner:** schapara  
**Release Baseline:** baseline:MR\_SAS\_NVDATA2.5\_5.14\_Rel\_2016-06-30@iMegaRAID  
**Release Date / Time:** 30-JUN-16  
**Release Type:** Point

NVDATA Defects Fixed (1):

**Defect ID:** SCGCQ01079578  
**Headline:** Requires to modify NVDATA for ROMB 1000/005b/1170/005B  
**Description Of Change:** Modified NVdata to correct LED behavior  
**Issue Description:** LED behavior incorrect during rebuild  
**Steps To Reproduce:** Initiate rebuild and watch LEDs

NVDATA Enhancements Implemented (1):

**EnhancementRequest ID:** SCGCQ01128412  
**Headline:** Need PnPid info ported to 5.14 iMR stream to support SAS2208-based controller  
**Description Of Change:** Added support for 5.14 iMR board

GCA Release (SCGCQ00854205) - WebBIOS - 6.1-76-e\_76-Rel

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**ReleaseOrderID:** SCGCQ00854205\_ [Open In CQWeb](#) [Download](#)  
**Headline:** GCA Release: MR\_SAS2.5\_WebBIOS\_5.14 - 6.1-76-e\_76-Rel  
**Release Version:** 6.1-76-e\_76-Rel  
**Product Org:** MegaRAID  
**Product Gen:** SAS2.5  
**Product Family:** MR\_Preboot\_Utils  
**UCM Project:** MR\_SAS2.5\_WebBIOS\_5.14  
**Release Type:** GCA  
**UCM Stream:** MR\_SAS2.5\_WebBIOS\_5.14\_Rel  
**Owner:** shrpatil  
**Release Baseline:** MR\_SAS2.5\_WebBIOS\_5.14\_Rel\_2015-04-29\_v6.1-69-e\_69-Rel@iMegaRAID  
**Release Date / Time:** 29-APR-15  
**Release Type:** GCA

WebBIOS Enhancements Implemented (1):

**EnhancementRequest ID:** SCGCQ00846708  
**Headline:** OEM requesting to do a WRITE VERIFY prior to flushing cache. This needs to be managed via CLI  
**Description Of Change:** Added new field called "Write Verify" with enable/disable option

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@iMegaRAID  
**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) - PCLl - 05.07.00

ReleaseOrderID: SCGCQ00356694 [Open In CQWeb](#) [Download](#)  
Headline: MR\_SAS\_5.5\_MegaPCLl\_05.07.00  
Release Version: 05.07.00  
Product Org: MegaRAID  
Product Gen: SASx  
Product Family: MR\_OS\_Utills  
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

PCLl Defects Fixed (2):

Defect ID: SCGCQ00356037  
Headline:  
Description Of Change:  
Issue Description: CLl 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 MegaCLl  
Description Of Change:  
Issue Description: No controller properties for Online FW Update in MegaCLl  
Steps To Reproduce: MegaCli adpallinfo a0

GCA Release (SCGCQ00356330) - BootBlock - 2.05.00.00-0010

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

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

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