



SCS Engineering Release Notice

GCA Release Version 07.37.00.00 - SAS2BIOS_Phase19.0 (SCGCQ00648948)

(SCGCQ00648948) - GCA Release Version 07.37.00.00 - SAS2BIOS Phase19.0

(SCGCQ00644552) - Phase19 Beta Release Version 7.36.03.00 - SAS2BIOS Phase19.0

(SCGCQ00633018) - Phase19 Beta Release Version 7.36.02.00 - SAS2BIOS Phase19.0

(SCGCQ00589048) - Phase19 Beta Release Version 7.36.01.00 - SAS2BIOS Phase19.0



SCS Engineering Release Notice

GCA Release Version 07.37.00.00 - SAS2BIOS_Phase19.0 (SCGCQ00648948)

Defects=0, Enhancements=0 (Version Change Only)



SCS Engineering Release Notice

Phase19 Beta Release Version 7.36.03.00 - SAS2BIOS_Phase19.0 (SCGCQ00644552)

Change Summary (Defects=1)

SCGCQ00643917 (CSET) - The system boot hangs when Legacy BIOS is disabled (using HII) on certain UEFI systems.



SCS Engineering Release Notice

Phase19 Beta Release Version 7.36.03.00 - SAS2BIOS_Phase19.0 (SCGCQ00644552)

Total Defects Resolved (1)

| (SCGCQ00643917 - Port of SCGCQ00637085) | | Defect 1/1 |
|---|---|------------|
| HEADLINE: | The system boot hangs when Legacy BIOS is disabled (using HII) on certain UEFI systems. | |
| DESC OF CHANGE: | Forced three functions that could use message passing to instead use doorbell. Any or all of these functions could run before reordered 'Reset to Ready state', and that caused a problem on UEFI/LEGACY platforms where UEFI ran first, and we clobbered their initialization. | |
| TO REPRODUCE: | <p>Held off the 'Reset to Ready state' if we detect UEFI is running.</p> <ol style="list-style-type: none">1. Use an OEM system which has CSM and loads Legacy BIOS after UEFI2. Flash both the legacy BIOS and UEFI in SAS3 board3. Boot into setup and in HII disable Legacy BIOS4. Enable CSM5. Reboot and expect the boot to HII succeeds6. Observe the boot failure | |
| ISSUE DESC: | <p>As part of Legacy BIOS initialization, the default activity was to reset the adapter to the ready state, and then check various other conditions to see if the legacy BIOS should unload. This sequence reset the adapter before the BIOS detect that UEFI wanted control.</p> <p>The fix was to avoid message passing until we have checked to see if UEFI wanted control, and prevent reset if it did.</p> | |



SCS Engineering Release Notice

Phase19 Beta Release Version 7.36.02.00 - SAS2BIOS_Phase19.0 (SCGCQ00633018)

Change Summary (Defects=2)

SCGCQ00624051 (DFCT) - The BIOS banner displays year 2013 in banner display.

SCGCQ00630498 (CSET) - Drives that use Descriptor Sense Data were returning format complete immediately



SCS Engineering Release Notice

Phase19 Beta Release Version 7.36.02.00 - SAS2BIOS_Phase19.0 (SCGCQ00633018)

Total Defects Resolved (2)

| (SCGCQ00624051) | Defect 1/2 |
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|------------------------|--|
| HEADLINE: | The BIOS banner displays year 2013 in banner display. |
| DESC OF CHANGE: | Updated the bios string file to reflect year 2014 in copy right banner. |
| TO REPRODUCE: | Flash the BIOS and check the banner. |
| ISSUE DESC: | The BIOS Banner copy right information displaying 2013 year. This need to be updated to reflect year 2014. |

| (SCGCQ00630498 - Port of SCGCQ00612075) | Defect 2/2 |
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| HEADLINE: | Drives that use Descriptor Sense Data were returning format complete immediately |
| DESC OF CHANGE: | Parse the Descriptor Sense Data and respond as appropriate. |
| TO REPRODUCE: | Format a drive that uses Descriptor Sense Data with both previous and new software version. Old version will return formatted immediately, new will take minutes to hours. |
| | Old does complete format, but only if you allow it to finish by watching the drive activity light. Shutdown before that is complete may leave the drive in an unusable state. |
| ISSUE DESC: | Descriptors were not being interpreted correctly. |



SCS Engineering Release Notice

Phase19 Beta Release Version 7.36.01.00 - SAS2BIOS_Phase19.0 (SCGCQ00589048)

Change Summary (Defects=2 Enhancements=1)

SCGCQ00570013 (CSET) - SAS3BIOS PH 3: View volume screen display 512b native drive as a hotspare for 4K drive volume.

SCGCQ00570016 (CSET) - SAS3BIOS: BIOS CU do not delete Hot Spare(s) when the remaining volume is not compatible with HS.

SCGCQ00568595 (CSET) - Legacy BIOS should check additional bit in BIOSOptions of BIOS Page 1 to decide whether to manage a controller or not



SCS Engineering Release Notice

Phase19 Beta Release Version 7.36.01.00 - SAS2BIOS_Phase19.0 (SCGCQ00589048)

Total Defects Resolved (2)

(SCGCQ00570013 - Port of SCGCQ00480454) Defect 1/2

HEADLINE: SAS3BIOS PH 3: View volume screen display 512b native drive as a hotspare for 4K drive volume.
DESC OF CHANGE: Added sector size check in "PopulateIRVolumeInfo" routine. This check will make sure that the HS will be marked as compatible with volume only if HS Size, Interface Type and sector size are matched.
TO REPRODUCE:
1.Create Raid1 volume with 512b SATA or SAS drives.
2.Create Raid1 volume with 4K SATA or SAS drives.
3.Add two hotspare to the SATA or SAS volume.
ISSUE DESC: Having a two volumes 1 volume created using 512 native drives and other with 4K drives after assigning a 512 native drive as a hotspare, the hotspare is getting listed against the 4K volume in view volume screen.

(SCGCQ00570016 - Port of SCGCQ00484240) Defect 2/2

HEADLINE: SAS3BIOS: BIOS CU do not delete Hot Spare(s) when the remaining volume is not compatible with HS.
DESC OF CHANGE: Added check for sector size in "CheckForOrphanedHotSpare" routine. This will check the HS sector size with that of volumes (if any) and if they do not match, deletes the HS.
TO REPRODUCE:
1. Connect 4 SAS - 512B and 2 SAS - 4K drives.
2. Create 2 Raid1 volumes, one using 2 SAS - 512B and another using 2 SAS - 4K drives.
3. Add 2 Hot Spares using remaining 2 SAS - 512B drives.
4. Delete Raid1 volume of SAS - 512B drives.
ISSUE DESC: The CU do not delete the hot spare(s) when the remaining volume is not compatible with HS. The mismatch is due to difference in sector sizes. Refer reproduction steps for details.



SCS Engineering Release Notice

Phase19 Beta Release Version 7.36.01.00 - SAS2BIOS_Phase19.0 (SCGCQ00589048)

Total Enhancements Implemented (1)

(SCGCQ00568595 - Port of SCGCQ00522412)

Enhancement 1/1

| | |
|---------------------------|---|
| HEADLINE: | Legacy BIOS should check additional bit in BIOSOptions of BIOS Page 1 to decide whether to manage a controller or not |
| NEW FUNCTIONALITY: | Earlier versions of the legacy BIOS checks the BiosOptions Flags bit 0 (DisableBIOS) to see whether to manage a controller or not. In this version of BIOS, In addition to that check, if the bit 0 is set 0 (EnableBIOS) the BIOS checks the bit 10 in the same field and if the bit 10 is set, the legacy BIOS disables the particular controller. If both the bits are not set then legacy BIOS manages the particular controller. |