



SCS Engineering Release Notice

Phase17 GCA Release Version 07.24.01.00 - UEFI_BSD_HII_SAS2_Phase17.0 (SCGCQ00468347)

*(SCGCQ00468347) - Phase17 GCA Release Version 07.24.01.00 -
UEFI BSD HII SAS2 Phase17.0*

*(SCGCQ00462076) - Phase17 Beta Release Version 07.24.00.05 -
UEFI BSD HII SAS2 Phase17.0*

*(SCGCQ00452088) - Phase17 Beta Release Version 07.24.00.04 -
UEFI BSD HII SAS2 Phase17.0*

*(SCGCQ00442679) - Phase17 Alpha Release Version 07.24.00.03 -
UEFI BSD HII SAS2 Phase17.0*

*(SCGCQ00436459) - Phase17 Alpha Release Version 07.24.00.02 -
UEFI BSD HII SAS2 Phase17.0*

*(SCGCQ00422490) - Phase17 Pre-Alpha Release Version 07.24.00.01 -
UEFI BSD HII SAS2 Phase17.0*

*(SCGCQ00420783) - Phase17 Pre-Alpha Release Version 07.24.00.00 -
UEFI BSD HII SAS2 Phase17.0*



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Phase17 GCA Release Version 07.24.01.00 - UEFI_BSD_HII_SAS2_Phase17.0 (SCGCQ00468347)

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



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Phase17 Beta Release Version 07.24.00.05 - UEFI_BSD_HII_SAS2_Phase17.0 (SCGCQ00462076)

Change Summary (Defects=2)

SCGCQ00461711 (CSET) - Drive selection behaviour inconsistency in HII, create configuration screen when having 1 SAS and 2 SATA drives

SCGCQ00461713 (CSET) - SAS3UEFI : View Foreign volume option is disabled with a foreign volume in the configuration

Total Defects Resolved (2)**(SCGCQ00461711 - Port of SCGCQ00454047) Defect 1/2**

HEADLINE:	Drive selection behaviour inconsistency in HII, create configuration screen when having 1 SAS and 2 SATA drives
DESC OF CHANGE:	Make sure the 'Create Configuration' form fields has default value each time this form is triggered. Because each entry into this screen starts the volume creation process over again.
TO REPRODUCE:	<ul style="list-style-type: none">- Connect 2 SATA & 1 SAS drive to controller.- Go to 'Create Configuration' to select the drives to create the volume.- By default 'Interface Type' will be set to 'SATA'. 2 SATA drives will be listed and allowed to select.- Now change the 'Interface Type' to 'SAS'.
ISSUE DESC:	Connect 2 SATA & 1 SAS drive to the controller. By default 'RAID level' is set to RAID0 and 'Interface Type' will be set to 'SATA' therefore 2 SATA drives will be listed and allowed to select the drives. When the 'Interface Type' is changed from 'SATA' to 'SAS', 1 SAS drive will be listed in the screen and it is able to select. This should be grayed out.

(SCGCQ00461713 - Port of SCGCQ00455570) Defect 2/2

HEADLINE:	SAS3UEFI : View Foreign volume option is disabled with a foreign volume in the configuration
DESC OF CHANGE:	Make sure the 'Manage Foreign Volume' form fields has default value each time this form is triggered.
TO REPRODUCE:	<ol style="list-style-type: none">1.Create RAID1E volume2.During BGI remove the all the volume members. Note that the volume will be in failed state. Later delete the volume entry3.Now reinsert the volume members the volume should enumerated as Foreign volume.4.Observe the View Foreign Volume option in Manage Foreign volume form.
ISSUE DESC:	The 'View Foreign Volume' option in 'Manage Foreign Volume' form is grayed out in the below scenario, After creating a volume, remove all the volume members and verify that the volume has turned to failed state. Later delete the volume entry. Now on reinserting the volume members the volume will be enumerated as Foreign volume. In this scenario we are not able to activate the volume because the View Foreign volume option is disabled.



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Phase17 Beta Release Version 07.24.00.04 - UEFI_BSD_HII_SAS2_Phase17.0 (SCGCQ00452088)

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



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Phase17 Alpha Release Version 07.24.00.03 - UEFI_BSD_HII_SAS2_Phase17.0 (SCGCQ00442679)

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



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Phase17 Alpha Release Version 07.24.00.02 - UEFI_BSD_HII_SAS2_Phase17.0 (SCGCQ00436459)

Change Summary (Defects=1 Enhancements=2)

SCGCQ00426296 (DFCT) - Crash seen during UEFI pre-boot environment on OEM specific platform

SCGCQ00385347 (ENHREQ) - Create an IR RAID Volume in non-PI mode, even when all member drives are PI Capable.

SCGCQ00399150 (ENHREQ) - Provide PI info and ability to control creation of PI Volume in UCM of BSD
HII



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Phase17 Alpha Release Version 07.24.00.02 - UEFI_BSD_HII_SAS2_Phase17.0 (SCGCQ00436459)

Total Defects Resolved (1)

(SCGCQ00426296)	Defect 1/1
HEADLINE:	Crash seen during UEFI pre-boot environment on OEM specific platform
DESC OF CHANGE:	Added the code to avoid pointer de-reference after clearing the memory for the same pointer.
TO REPRODUCE:	Step1: Connect the SAS2 controller in OEM server Step2: Flash the controller with SAS2 phase 17 pre-alpha deliverables(firmware, legacy Bios, UEFI). Step3: Reboot the system
ISSUE DESC:	Crash seen during the boot time at UEFI Pre-boot environment, on the OEM specific platform.



Total Enhancements Implemented (2)

(SCGCQ00385347) Enhancement 1/2

HEADLINE: Create an IR RAID Volume in non-PI mode, even when all member drives are PI Capable.
NEW FUNCTIONALITY: Added new check box primitive "Enable Volume PI" which will be suppressed till atleast minimum number of PI enabled drives present in the configuration are selected by the user. If the user checks the "Enable Volume PI", a volume will be created with PI mode enabled. Default value for the "Enable Volume PI" checkbox primitive is not "not selected" in which case a volume will be created with PI mode disabled.

(SCGCQ00399150) Enhancement 2/2

HEADLINE: Provide PI info and ability to control creation of PI Volume in UCM of BSD HII
NEW FUNCTIONALITY:

1. Added the info about whether a drive is PI Capable or not in the Physical drive information that appears in the UCM configuration summary.
2. Added a new question ID with title 'Volume PI Capability' in the config creation.
 - a. The 'Volume PI Capability' by default will be disabled.
 - b. If 'Volume PI Capability' is set and the selected drives are PI Capable, volume created will be PI enabled volume.
 - c. If 'Volume PI Capability' is not set and even if the selected drives are PI Capable, volume created will not be PI enabled.



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Phase17 Pre-Alpha Release Version 07.24.00.01 - UEFI_BSD_HII_SAS2_Phase17.0 (SCGCQ00422490)

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



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Phase17 Pre-Alpha Release Version 07.24.00.00 - UEFI_BSD_HII_SAS2_Phase17.0 (SCGCQ00420783)

Change Summary (Defects=2 Enhancements=5)

SCGCQ00413896 (CSET) - LSI 2308-IR HDD's not found in RAID1

SCGCQ00414996 (CSET) - SAS3 BSD EFI Crashing, when the start entry point of driver binding is called more than once.

SCGCQ00352409 (ENHREQ) - In UEFI HII, Manage Global Hotspare HII Form should be grayed out when the configuration has 14 RAID Volume members

SCGCQ00374718 (ENHREQ) - Enhance Driver Health Protocol support

SCGCQ00379315 (ENHREQ) - Modify UEFI BSD to prevent managing the controller without BSD ROM flashed in it

SCGCQ00409802 (CSET) - UEFI BSD Driver should not reset the controller in the Exit routine if Slot Re-ordering has been setup in Manufacturing Page 7

SCGCQ00409803 (CSET) - HII screens/selections that providing an enumeration of devices, order the list based on Slot Number



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Phase17 Pre-Alpha Release Version 07.24.00.00 - UEFI_BSD_HII_SAS2_Phase17.0 (SCGCQ00420783)

Total Defects Resolved (2)

(SCGCQ00413896 - Port of SCGCQ00408448) Defect 1/2

HEADLINE: LSI 2308-IR HDD's not found in RAID1
DESC OF CHANGE: The timeout value that we get from the user application is converted into seconds and then used in our code.
TO REPRODUCE:
1 Upgrade to X47 BIOS
2 Install 2 HDD's
3 In the OROM create a RAID1 or RAID0
4 Reboot system
5 Hit F2 to go into BIOS setup - This can be done on the Dell logo screen right after the beeps on boot
6 On Boot Sequence, enable UEFI Boot
7 Hit Apply (Do not reboot)
8 On Advanced Boot Options, uncheck legacy option roms
9 Hit Apply
10 Reboot system
11 On Dell Logo hit F12 to bring up the boot options menu - right after the beeps
12 At the bottom of the boot menu is a choice for "Diagnostics"
13 Choose the "Diagnostics" option
14 It may ask you to hit F1/F2 or F5. Hit F5.
ISSUE DESC: In the customer developed application, RIAD member drives are not getting detected.

(SCGCQ00414996 - Port of SCGCQ00404177) Defect 2/2

HEADLINE: SAS3 BSD EFI Crashing, when the start entry point of driver binding is called more than once.
DESC OF CHANGE: Made code changes that will make sure that, the SasAdapter object has valid address before it is passed to the function that will create 'Ready to Boot' event.
TO REPRODUCE: Need to have a system (EDKII based system), that will call the start entry point of driver binding multiple times.
ISSUE DESC: When the start entry point of driver binding is called more than once, first time without a controller in the internal list and later with a controller present in the internal list. The Boot services registered is called twice, first time with a valid pointer for SAScontroller object and second time with a junk address. Accessing the junk pointer caused crash when the exit boot service handler is invoked.



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Phase17 Pre-Alpha Release Version 07.24.00.00 - UEFI_BSD_HII_SAS2_Phase17.0 (SCGCQ00420783)

Total Enhancements Implemented (5)

(SCGCQ00352409) Enhancement 1/5

HEADLINE: In UEFI HII, Manage Global Hotspare HII Form should be grayed out when the configuration has 14 RAID Volume members

NEW FUNCTIONALITY: The Manage Global HS, Assign HS and Un Assign HS tabs will be enabled only if the topology allows the respective operation. If topology is such that assigning and un assigning a HS is not possible, then MGHS tab will be grayed out. If adding HS and/or deleting HS are possible, then corresponding tab/tabs are enabled.

(SCGCQ00374718) Enhancement 2/5

HEADLINE: Enhance Driver Health Protocol support

NEW FUNCTIONALITY: The Driver health messages are moved to the string database to assist the internalization. And a new message is added to handle the IOC facts failure.

(SCGCQ00379315) Enhancement 3/5

HEADLINE: Modify UEFI BSD to prevent managing the controller without BSD ROM flashed in it

NEW FUNCTIONALITY: When the system firmware dispatches a controller to the UEFI BSD driver, the driver will check whether the controller has BSD flashed in it. If the UEFI BSD is not flashed on the controller the driver will not manage the controller. If the controller has BSD flashed the driver checks whether the driver manages any other controller already and if driver does not manage any other controller it will manage the dispatched controller. If the driver is loaded from shell, then always the first controller dispatched to the driver will be managed by it. The OpROM presence check will not be done if driver is loaded from the Shell.

(SCGCQ00409802 - Port of SCGCQ00408065) Enhancement 4/5

HEADLINE: UEFI BSD Driver should not reset the controller in the Exit routine if Slot Re-ordering has been setup in Manufacturing Page 7

NEW FUNCTIONALITY: Added code to check the Manufacturing Page 7 Flags field bit 1 EVENT_REPLAY_SORT_ORDER. If this bit is set then do not execute the function which does the diagnostic reset.

(SCGCQ00409803 - Port of SCGCQ00408761) Enhancement 5/5

HEADLINE: HII screens/selections that providing an enumeration of devices, order the list based on Slot Number

NEW FUNCTIONALITY: Added code to check Manufacturing Page 7 Flags field bit 1 EVENT_REPLAY_SORT_ORDER and if the firmware is IT. If both the conditions are true then the bare drive list structures in the function which gets the bare drive details are re-ordered based on slot number.