
ReleaseOrder ID: SCGCQ00830338
Headline: Point Release: SAS2 IT/IR UEFI BSD & HII Release
Release Version: 7.27.01.01
UCM Project: UEFI_BSD_HII_SAS2_Phase20.0
UCM Stream: UEFI_BSD_HII_SAS2_Phase20.0_Rel
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\\SAS2
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Defects Fixed (1):

ID: SCGCQ00824184

Headline: RSOD (System Crash) when IT/IR UEFI BSD is loaded with a RAID controller configured with an IR Volume

Description Of Change: The RAID configuration page read function is modified to read the complete page based on the page size reported by the firmware.

Issue Description: The config page read function for RAID config page was not reading the complete config page, it read only the first config element irrespective of the number of config elements reported by the firmware. When the RAID config page is used unassigned memory is accessed which results in the crash (RSOD).

Steps To Reproduce:

1. Connect IR controller in a UEFI capable system
2. Flash Phase20 GCA or previous versions of the UEFI BSD.
3. Create an IR Volume in HII and reboot the system
4. Observe System boot stops with RSOD (Crash)

(The crash happens only in the systems with system BIOS which is capable of detecting unassigned memory access)

Enhancements Implemented (1):

ID: SCGCQ00823621

Headline: Return EFI_NOT_FOUND for GetNextTargetLun when no disks are attached to the controller.

Description Of Change: The driver was returning error code EFI_INVALID_PARAMETER when no disks are connected or no volumes are configured in a controller. However the EFI_INVALID_PARAMETER is causing UEFI SCT tool to infinitely try for looking for devices and the tool appears hanging. The SCT is looking for EFI_NOT_FOUND error code for the above mentioned cases. Since the specification is ambiguous about the return values on the case of device not found or volumes not configured the driver needs to be modified to return EFI_NOT_FOUND for those cases.
