



SCS Engineering Release Notice

Phase14 GCA Release Version 14.00.00.00 - SAS2IRCU_Phase14.0 (SCGCQ00301793)

(SCGCQ00301793) - Phase14 GCA Release Version 14.00.00.00 - SAS2IRCU Phase14.0
(SCGCQ00300033) - Phase14 Beta Release Version 13.250.04.00 - SAS2IRCU Phase14.0
(SCGCQ00298086) - Phase14 Beta Release Version 13.250.03.00 - SAS2IRCU Phase14.0
(SCGCQ00290490) - Phase14 Beta Release Version 13.250.02.00 - SAS2IRCU Phase14.0
(SCGCQ00264709) - Phase14 Alpha Release Version 13.250.01.00 - SAS2IRCU Phase14.0



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Phase14 GCA Release Version 14.00.00.00 - SAS2IRCU_Phase14.0 (SCGCQ00301793)

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



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Phase14 Beta Release Version 13.250.04.00 - SAS2IRCU_Phase14.0 (SCGCQ00300033)

Change Summary (Defects=1)

SCGCQ00284855 (DFCT) - SAS2IRCU: Error message displayed twice on trying to create SATA HDD hotspare for 2 SAS HDD volumes.



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Phase14 Beta Release Version 13.250.04.00 - SAS2IRCU_Phase14.0 (SCGCQ00300033)

Total Defects Resolved (1)

(SCGCQ00284855)		Defect 1/1
HEADLINE:	SAS2IRCU: Error message displayed twice on trying to create SATA HDD hotspare for 2 SAS HDD volumes.	
DESC OF CHANGE:	Added check that will compare the error messages set by MPTLIB2 library. If both error messages are same then, second time error message will not be displayed. Two error messages will be displayed only if there are different.	
TO REPRODUCE:	<ol style="list-style-type: none">1)Flash latest firmware and bios to the controller2)Using Sas2ircu version: 13.250.01.00, create 2 SAS HDD volumes3)Try to create SATA HDD hotspare for the above created 2 SAS HDD volumes using Sas2ircu4)Observe the issue that below error message will be repeated twice. "Drives specified cannot be used as RAID member as they are a mix of SAS and SATA type drives"	
ISSUE DESC:	On trying to create SATA HDD hotspare using Sas2ircu for 2 SAS HDD volumes, following error message is displayed twice. "Drives specified cannot be used as RAID member as they are a mix of SAS and SATA type drives"	



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Phase14 Beta Release Version 13.250.03.00 - SAS2IRCU_Phase14.0 (SCGCQ00298086)

Change Summary (Defects=2)

SCGCQ00284855 (DFCT) - SAS2IRCU: Error message displayed twice on trying to create SATA HDD hotspare for 2 SAS HDD volumes.

SCGCQ00291563 (DFCT) - SAS2IRCU: Unable to create RAID0 volume with ONLY one drive using SAS2IRCU



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Phase14 Beta Release Version 13.250.03.00 - SAS2IRCU_Phase14.0 (SCGCQ00298086)

Total Defects Resolved (2)

(SCGCQ00284855)		Defect 1/2
HEADLINE:	SAS2IRCU: Error message displayed twice on trying to create SATA HDD hotspare for 2 SAS HDD volumes.	
DESC OF CHANGE:	Added check that will comapre the error messages set by MPTLIB2 libtary. If both error messages are same then, second time error message will not be displayed. Two error messages will be displayed only if there are different.	
TO REPRODUCE:	1)Flash latest firmware and bios to the controller 2)Using Sas2ircu version: 13.250.01.00, create 2 SAS HDD volumes 3)Try to create SATA HDD hotspare for the above created 2 SAS HDD volumes using Sas2ircu 4)Observe the issue that below error message will be repeated twice. "Drives specified cannot be used as RAID member as they are a mix of SAS and SATA type drives"	
ISSUE DESC:	On trying to create SATA HDD hotspare using Sas2ircu for 2 SAS HDD volumes, following error message is displayed twice. "Drives specified cannot be used as RAID member as they are a mix of SAS and SATA type drives"	
(SCGCQ00291563)		Defect 2/2
HEADLINE:	SAS2IRCU:Unable to create RAID0 volume with ONLY one drive using SAS2IRCU	
DESC OF CHANGE:	The minimum number of drives needed to create a volume is 2. However with the modification in man page 10, it is possible to create single drive RAID0 volume. Hence MIN_IR_DISKS is changed from 2 to 1 to accomodate this scenario.	
TO REPRODUCE:	1. Modify the man page 10 offset 0xc to allow single drive raid0 volume. 2. Connect one drive (SAS or SATA). 3. Try to create RAID0 Volume.	
ISSUE DESC:	The utility is not allowing single drive raid0 volume creation when single drive is connected to adapter. The man page 10 is updated to allo single drive raid0 volume creation. However the utility exits saying there are insufficient number of drives connected to create volume.	



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Phase14 Beta Release Version 13.250.02.00 - SAS2IRCU_Phase14.0 (SCGCQ00290490)

Change Summary (Defects=3)

SCGCQ00281442 (DFCT) - SAS2IRCU: Warning message displayed on deleting a RAID volume is spelled incorrectly.

SCGCQ00284855 (DFCT) - SAS2IRCU: Error message displayed twice on trying to create SATA HDD hotspare for 2 SAS HDD volumes.

SCGCQ00286141 (DFCT) - SAS2IRCU: Not able to create single drive RAID0 volume without "noprompt" option.



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Phase14 Beta Release Version 13.250.02.00 - SAS2IRCU_Phase14.0 (SCGCQ00290490)

Total Defects Resolved (3)

(SCGCQ00281442)		Defect 1/3
HEADLINE:	SAS2IRCU: Warning message displayed on deleting a RAID volume is spelled incorrectly.	
DESC OF CHANGE:	Corrected the warning message text while executing "DELETE" command.	
TO REPRODUCE:	1) Create any RAID volume 2) Try to delete the RAID volume using Sas2ircu (version: 13.250.01.00) without "noprompt" options 3) A warning message like "WARNING: Proceeding with this operation may cause data loss or data corruption. Are you sure you want to proceed (YES/NO)? WARNING: This is you last chance to abort this operation. Do you wish to abort (YES/NO)? Please wait, may take up to a minute..." will be displayed 4) In the above second warning message, instead of "This is your last chance....", it is displayed as "This is you last chance....."	
ISSUE DESC:	There is spelling error while executing "DELETE" command without "NOPROMPT" option.	
(SCGCQ00284855)		Defect 2/3
HEADLINE:	SAS2IRCU: Error message displayed twice on trying to create SATA HDD hotspare for 2 SAS HDD volumes.	
DESC OF CHANGE:	Added check that will comapre the error messages set by MPTLIB2 library. If both error messages are same then, second time error message will not be displayed. Two error messages will be displayed only if there are different.	
TO REPRODUCE:	1)Flash latest firmware and bios to the controller 2)Using Sas2ircu version: 13.250.01.00, create 2 SAS HDD volumes 3)Try to create SATA HDD hotspare for the above created 2 SAS HDD volumes using Sas2ircu 4)Observe the issue that below error message will be repeated twice. "Drives specified cannot be used as RAID member as they are a mix of SAS and SATA type drives"	
ISSUE DESC:	On trying to create SATA HDD hotspare using Sas2ircu for 2 SAS HDD volumes, following error message is displayed twice. "Drives specified cannot be used as RAID member as they are a mix of SAS and SATA type drives"	
(SCGCQ00286141)		Defect 3/3
HEADLINE:	SAS2IRCU: Not able to create single drive RAID0 volume without "noprompt" option.	
DESC OF CHANGE:	While executing "CREATE" command the command line parameter count is checked for minimum numbers. If there are no correct number of parameters are passed, then SAS2IRCU exits the utility. Since single drive volume creation is possible (after NVDAT changes), the minimum number of parameters needed are 6. Hence reduced the minimum number of parameters count from 7 to 6.	
TO REPRODUCE:	1)Flash the controller with latest bios and firmware 2)Change the value of offset "000c" to "54" in Manufacturing page10 (for single drive RAID0 support) 3)Try to create a RAID0 volume using single drive without mentioning "NOPROMPT" option. 4) The utility fails the command.	
ISSUE DESC:	After changing value of offset "000c" to "54" in Manufacturing page10, can able to create RAID0 volume with single drive only when "noprompt" option is provided with the command. Sas2ircu not allows to create single drive RAID0 volume when "noprompt" option not provided Command example: Sas2ircu <controller no> create raid0 max <single drive> noprompt -> can able to create volume Sas2ircu <controller no> create raid0 max <single drive> -> not able to create volume	



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Phase14 Alpha Release Version 13.250.01.00 - SAS2IRCU_Phase14.0 (SCGCQ00264709)

Change Summary (Enhancements=3)

SCGCQ00227279 (ENHREQ) - IRCU needs check the status of the volume in the BOOTIR command

SCGCQ00227281 (ENHREQ) - Provide more granular incompatibility messages based on the SubStatus result from the corresponding API's.

SCGCQ00228606 (ENHREQ) - IRCU should detect if the controller is running on IT firmware or disabled RAID functionality



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Phase14 Alpha Release Version 13.250.01.00 - SAS2IRCU_Phase14.0 (SCGCQ00264709)

Total Enhancements Implemented (3)

(SCGCQ00227279) Enhancement 1/3

HEADLINE: IRCU needs check the status of the volume in the BOOTIR command
NEW FUNCTIONALITY: The IRCU will not set an FAILED volume as boot device. If attempted the utility will show error information and exits.

(SCGCQ00227281) Enhancement 2/3

HEADLINE: Provide more granular incompatibility messages based on the SubStatus result from the corresponding API's.
NEW FUNCTIONALITY: SAS2IRCU will display the specific incompatible reason while creating volumes. If drive selection for volume creation contains incompatible drives (ex: 512 byte and 4K sector size drives), the specific error message for 512 and 4k mixing is displayed on screen.

(SCGCQ00228606) Enhancement 3/3

HEADLINE: IRCU should detect if the controller is running on IT firmware or disabled RAID functionality
NEW FUNCTIONALITY: SAS2IRCU will not execute RAID commands if the controller FW does not support RAID. Instead error information will be displayed on screen. DISPLAY, LIST, HELP, LOCATE, MFGPAGE, commands are executed irrespective of RAID support.