

Firmware 1.48L06 Release Note

Updated: Oct. 14th, 2020

Applicable products:

Binary File Name	FA148L06_281_IFT_ESGS.BIN
MD5 Checksum	38E113B7C19EF1E9F6440D07D9270D29
Applicable Models	
GS/GSc/GSa 5000 Series	GS/ GSc 5100R GS/ GSc 5200R GSa 5100 GSa 5200

Compatible Software Versions:

EonOne: 2.5.r.305

Important Notes:

1. The rolling upgrading function did not support before the firmware version 133D01. Please shutdown controller before upgrading. The unit might be stuck if operated rolling upgrade, please reboot the unit and the firmware would be the newer version.

Limitation:

1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
3. When using VMWare mounting NFS as data store and create/migrate VMs into GS share folder, I/O may be freezed unexpectedly. If you encounter this, please temporary switch to use block level iSCSI.

New features:

None.

Enhancements

None.



Bugs fixes:

1. Fixes: A bug in NAS may cause SMB folder to unmount, the files that were inside that folder are moved to recycle bin and cannot be recovered. (ID: 2000284)

Known Issues:

1. The SSD trim function is disabled in this version. When the function is enabled, the host side might take a longer time to format partition on Windows when using all SSD in RAID. (ID: 2000166)
2. It might fail to access share folder via CIFS/SMB protocol on MAC OS when enabling vfs-fruits module.

Firmware 1.48B19 Release Note

Updated: Aug. 31th, 2020

Applicable products:

Binary File Name	FA148B19_281_IFT_ESGS.BIN
MD5 Checksum	79408A82A66D092E8FE99DECCE04CE6F
Applicable Models	
GS/GSc/GSa 5000 Series	GS/ GSc 5100R GS/ GSc 5200R GSa 5100 GSa 5200

Compatible Software Versions:

EonOne: 2.5.r.37

EonView: 1.0.1-0109

Important Notes:

1. The rolling upgrading function did not support before the firmware version 133D01. Please shutdown controller before upgrading. The unit might be stuck if operated rolling upgrade, please reboot the unit and the firmware would be the newer version.

Limitation:

1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
3. When using VMWare mounting NFS as data store and create/migrate VMs into GS share folder, I/O may be freezed unexpectedly. If you encounter this, please temporary switch to use block level iSCSI.

New features:

1. Supports automatically import users/groups from AD server to GS. (ID: 2000127)
2. Supports 64G RAM on each slot.
3. Enables VASA for VMWare.
4. Supports join AD without enabling SMB v1 on AD server. (ID: 2000043)

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5. Central EonOne supports TLS 1.2. (ID: 2000144)
 6. Supports setting up jumbo frame per data port. (ID: 1800047)
 7. Supports checking the flush agent status when mapping the snapshot volume to host. (ID: 2000053, 2000150)

Enhancements

1. Enhances bandwidth test for Replication function. (ID: ID: 1900279)
2. Enhances system information. (ID: 62497, 2000087, 2000153, 2000187)
3. Enhances default routing function. (ID: 2000073)
4. Enhances Germany user interface. (ID: 2000126)
5. From this version (v.148A19), please go to EonOne Channel & network page to reconfigure the DNS server.

Bugs fixes:

2. Fixes: The embedded EonOne might be stuck at 99% during the process of exporting System Information after controller failure occurred. (ID: 2000061)
3. Fixes: When deleting amount of data from cache mode cloud-volume might cause IO hang. (ID: 2000107)
4. Fixes: It might unable to connect Azure cloud after disconnected due to some resource issue. (ID: 2000076)
5. Fixes: It might show "controller almost ready" on GUI and failed to boot up the secondary controller after re-plugin it. (ID: 2000045)
6. Fixes: It might encounter controller fail when deleting the mount-failed snapshot. (ID: 2000118)
7. Fixes: The controller might fail when there are huge amount of IO abort errors reported at a very short time. (ID: 1900232)
8. Fixes: The host IO abort might cause controller fail when using SSD and enable SSD cache function. (ID: 2000029)
9. Fixes: The snapshot image might become mount-failed and corrupted if anyone who has deleted the image from the middle sequence. (ID: 2000036, 2000047)
10. Fixes: It might show incorrect status of "Initializing On-Line" on EonOne after created a LD which size is larger than 256TB. (ID: 2000102)
11. Fixes: User might encounter IO hang and unable to access EonOne when using Windows server. (ID: 2000115)
12. Fixes: The controller might fail when receiving the incorrect iSCSI command from client server. (ID: 2000169)
13. Fixes: When uses thin-provision volume with Tier function and exceeds available space



might cause mount fail. (ID: 2000174)

14. Fixes: It might show wrong status of logical drive on display when there it encountered fatal failed. (ID: 2000193)
15. Fixes: It might fail to flush the cache in host side when taking snapshot and using VMWare. (ID: 2000198)
16. Fixes: It might encounter controller fail when deleting the mount-failed snapshot. (ID: 2000118)
17. Fixed: The Photoshop file might become executable file when saving without file extension via SMB/AFP protocol on Mac. (ID: 2000086)
18. Fixes: It might encounter IO hang and unable to access the WebGUI when 40G hostboard inserted. (ID: 2000128)
19. Fixes: The auto target LUN mapping might not run properly when running Remote Replication task. (ID: 1900106)
20. Fixes: NAS failover might cause EonOne disconnect suddenly. (ID: 2000068)
21. Fixes: The target unit might encounter controller fail when running Remote Replication task. (ID: 2000072)
22. Fixes: When a new controller inserted, it might fail to synchronize the configuration if there was hostboard which includes file-level channel was used in the original configuration. (ID: 1900097, 1900105)
23. Fixes: It might show "sshd" as user name on connection display of WebGUI after upgrading firmware to ver.147. (ID: 2000139)
24. Fixes: It might encounter NAS failover when using EonOne to monitor Capacity or Performance for a long period. (ID: 2000066)
25. Fixes: It might fail to delete the cloud task which includes a space in the task name. (ID: 2000060)
26. Fixes: It might encounter controller fail when enable SNMP notification function. (ID: 2000062)
27. Fixes: Web GUI might show "Unknown" on display due to unexpected condition. (ID: 2000067)
28. Fixes: When there is a user name which includes four characters, it might failed to search it in the File Explore. (ID: 2000082)
29. Fixes: WebGUI might popup incorrect message when using Japanese EonOne to enable Advanced ACL function. (ID: 2000101)
30. Fixes: Unable to modify the file attribute which was copied from windows 7 to GS. (ID: 2000155)
31. Fixes: It might shows the Object function was disabled on Web GUI if enable the function and login again. (ID: 2000162)
32. Fixes: The Rsync task schedule might be stuck due to unexpected condition. (ID: 2000207)

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33. Fixes: It might fail to process firmware rolling upgrade function since there is no enough space in NAS. (ID: 1900134)
 34. Fixes: It might automatically update the database of Anti-Virus function when it was disabled. (ID: 2000159)
 35. Fixes: It might fail to re-create the local user when using the same ID as the one just deleted. (ID: 2000214)
 36. Fixes: The folder path might be changed unexpectedly when it had been taken snapshot and updated firmware from 138A41 to 147F08. (ID: 64586)
 37. Fixes: It might meet poor performance via SMB/NFS protocol when enabling Data access log function without setting database. (ID: 2000252, 2000244)
 38. Fixes: The cloud task might be stuck due to NAS restart improperly. (ID: 2000154)
 39. Fixes: It might fail to complete the upload files process when using Cache mode cloud task. (ID: 2000097)

Known Issues:

1. The SSD trim function is disabled in this version. When the function is enabled, the host side might take a longer time to format partition on Windows when using all SSD in RAID. (ID: 2000166)
2. It might fail to access share folder via CIFS/SMB protocol on MAC OS when enabling vfs-fruit module.



Firmware 1.47M04 Release Note

Updated: May. 28th, 2020

Applicable products:

Binary File Name	FA147M04_281_IFT_ESGS.BIN
MD5 Checksum	A7D871A673BBEDD1F128C85E9C090641
Applicable Models	
GS/GSc/GSa 5000 Series	GS/ GSc 5100R GS/ GSc 5200R GSa 5100 GSa 5200

Compatible Software Versions:

EonOne: 2.5.q.401

EonView: 1.0.1-0109

Important Notes:

2. The rolling upgrading function did not support before the firmware version 133D01. Please shutdown controller before upgrading. The unit might be stuck if operated rolling upgrade, please reboot the unit and the firmware would be the newer version.

Limitation:

1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
3. When using VMWare mounting NFS as data store and create/migrate VMs into GS share folder, I/O may be freezed unexpectedly. If you encounter this, please temporary switch to use block level iSCSI.

New features:

1. Add an on board SSD check detection method which will detect degradation of it.

Enhancements



None

Bugs fixes:

None

Known Issues:

1. The SSD trim function is disabled in this version. When the function is enabled, the host side might take a longer time to format partition on Windows when using all SSD in RAID. (ID: 2000166)

Firmware 1.47G08 Release Note

Updated: May. 27th, 2020

Applicable products:

Binary File Name	FA147G08_281_IFT_ESGS.BIN
MD5 Checksum	8E88E41BA0193C9B2955A9E16CCCCDD8
Applicable Models	
GS/GSc/GSa 5000 Series	GS/ GSc 5100R GS/ GSc 5200R GSa 5100 GSa 5200

Compatible Software Versions:

EonOne: 2.5.q.103

EonView: 1.0.1-0109

Important Notes:

1. The rolling upgrading function did not support before the firmware version 133D01. Please shutdown controller before upgrading. The unit might be stuck if operated rolling upgrade, please reboot the unit and the firmware would be the newer version.

Limitation:

1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
3. When using VMWare mounting NFS as data store and create/migrate VMs into GS share folder, I/O may be freezed unexpectedly. If you encounter this, please temporary switch to use block level iSCSI.

New features:

None

Enhancements

None



Bugs fixes:

4. Fixes: Sometimes it might show wrong message on display when checking on the "Select the configuration of the pool" during Initial setup wizard process. (ID: 2000094)
5. Fixes: Sometimes it might unable to login share folder via CIFS/SMB protocol when enable recycle bin function. (ID: 2000122)
6. Fixes: Sometimes when the Anti-Virus function is enabled might cause NAS high memory usage problem. (ID: 2000133)
7. Fixes: Sometimes it might fail to access share folder via CIFS/SMB protocol because of improper NAS resource allocation. (ID: 2000137)
8. Fixes: Sometimes it might fail to login share folder via CIFS/SMB protocol after upgrade firmware to v.147B19. (ID: 2000132, 2000142)
9. Fixes: Sometimes it might fail to set permission for AD group when ACL was enabled. (ID: 2000146, 2000148)
10. Fixes: Sometimes it might fail to access share folder via CIFS/SMB protocol after upgrade firmware to v.147B19. (ID: 2000136)
11. Fixes: Sometimes the write performance might become worse after upgrading firmware to firmware to v.147B19. (ID: 2000167)

Known Issues:

1. The SSD trim function is disabled in this version. When the function is enabled, the host side might take a longer time to format partition on Windows when using all SSD in RAID. (ID: 2000166)

Firmware 1.47B19 Release Note

Updated: Mar. 13th, 2020

Applicable products:

Binary File Name	FA147B19_280_IFT_ESGS.BIN
MD5 Checksum	A2AD0D4B03D11684BE591FF19B333DBF
Applicable Models	
GS/GSc/GSa 5000 Series	GS/ GSc 5100R GS/ GSc 5200R GSa 5100 GSa 5200

Compatible Software Versions:

EonOne: 2.5.q.18

Important Notes:

1. The rolling upgrading function did not support before the firmware version 133D01. Please shutdown controller before upgrading. The unit might be stuck if operated rolling upgrade, please reboot the unit and the firmware would be the newer version.

Limitation:

1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
3. When using VMWare mounting NFS as data store and create/migrate VMs into GS share folder, I/O may be freezed unexpectedly. If you encounter this, please temporary switch to use block level iSCSI.

New features:

1. Support windows SMB Multichannel.
2. Support trunking onboard channels and hostboard channels as same trunk group. (1G RJ45/10G RJ45/10G SFP+)

Enhancements

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1. Performance enhancement. (ID: 1900161)
 2. Enhance Event log function. (ID: 1900270, 1900339)
 3. Enhance AD function. (ID: 1900358)
 4. Enhance FTP function.

Bugs fixes:

1. Fixes: Sometimes the controller might hang when SATA drive inserted without bridge board. (ID: 1900124)
2. Fixes: Sometimes it might show Drive not ready when SED function is enabled while MTFDDAK3T8QDE drive is inserted. (ID: 1900192)
3. Fixes: Sometimes the performance might be worse when copying and listing files in multiple CIFS folders at the same time. (ID: 1900200)
4. Fixes: Sometimes there are too many unknown session log in SMB server might cause the resource be occupied and the SMB folders unable to accessed. (ID: 1900280, 1900343, 2000025)
5. Fixes: Sometimes drive error might be detected under the situation of heavy IO. (ID: 1900290)
6. Fixes: Sometimes it might fail to create Rsync task when ACL sync option is enabled. (ID: 1900302)
7. Fixes: Sometimes AD join might fail when TLS is enabled on Linux-based AD server. (ID: 1900306)
8. Fixes: Sometimes controller might fail when channels have been set to different network domain without gateway. (ID: 1900322)
9. Fixes: Sometimes the target snapshot might be incomplete when mapping on Linux server. (ID: 1900341)
10. Fixes: Sometimes the controller might fail when SSD is inserted. (ID: 1900344)
11. Fixes: Sometimes the controller might fail when the security was set as SSL on notification setting. (ID: 1900350)
12. Fixes: Sometimes the controller might fail due to rare CPU resource handling. (ID: 1900355)
13. Fixes: Sometimes the display might show file-level channels when mapping block-level remote replication volume on client server. (ID: 2000006)
14. Fixes: Sometimes it might fail to perform snapshot schedule when the volume is used as a datastore in VMWare. (ID: 2000013)
15. Fixes: Sometimes the static IP address could not be assigned when the host connects to a management port without DHCP server available. (ID: 2000024)

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16. Fixes: Sometimes GUI might pop up error message when setting advanced ACL setting and select "Apply configuration to subfolders and files". (ID: 1900165)
 17. Fixes: Sometimes GUI might not show S3 Endpoint when VLAN is configured. (ID: 1900243)
 18. Fixes: Sometimes the shared folder might not able to edit when it is a sync-mode cloud. (ID: 2000021)
 19. Fixes: Sometimes IO might hang when using 4 X 16Gb/s FC ports. (ID: 1900250)
 20. Fixes: Sometimes abnormal IO behavior might cause controller hang. (ID: 1900309)
 21. Fixes: Sometimes it might fail to create a pool with 2PB size. (ID: 1900348)
 22. Fixes: Sometimes Cloud Server might crash when the Linux share folder under heavy IO load. (ID: 2000002)
 23. Fixes: Sometimes the Web GUI error might cause controller fail. (ID: 2000048)
 24. Fixes: Sometimes when adding SCSI ID without rebooting and map block-level volume to host might cause controller fail. (ID: 1900345)
 25. Fixes: Sometime it might fail to boot up RAID with JBOD after a controller failure happened. (ID: 2000009)
 26. Fixes: Sometimes it might fail to mount file-level snapshot. (ID: 1900258)

Known Issues:

None

Firmware 1.46G16 Release Note

Updated: Jan. 31st, 2020

Applicable products:

Binary File Name	FA146G16_280_IFT_ESGS.BIN
MD5 Checksum	5307E17E85D033FE7385B2E72FEC2041
Applicable Models	
GS/GSc/GSa 5000 Series	GS/ GSc 5100R GS/ GSc 5200R GSa 5100 GSa 5200

Compatible Software Versions:

EonOne: 2.5.p.122

Important Notes:

1. The rolling upgrading function did not support before the firmware version 133D01. Please shutdown controller before upgrading. The unit might be stuck if operated rolling upgrade, please reboot the unit and the firmware would be the newer version.

Limitation:

1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
3. When using VMWare mounting NFS as data store and create/migrate VMs into GS share folder, I/O may be freezed unexpectedly. If you encounter this, please temporary switch to use block level iSCSI.

New features:

1. Support Office Shared Storage for GS models. Please refer to the following link for more details. <https://www.infortrend.com/tw/products/office-shared-storage>

Enhancements:



None

Bugs fixes:

1. Fixes: If the GS has ever been firmware version 1.32C13 or older and updated either directly or through other versions to 1.45/ 1.46 the GS will may fail to boot up. If the system has never been restored to default they might meet this issue. (ID: 2000017)

Known Issues:

1. Sometimes AD join might fail when TLS is enabled on Linux-based AD server. (ID: 1900306)



Firmware 1.46B11 Release Note

Updated: Feb. 8th, 2020

Applicable products:

Binary File Name	FA146B11_280_IPT_ESGS.BIN
MD5 Checksum	37DF861C186E7C4D89DB0322D561D5BF
Applicable Models	
GS/GSc/GSa 5000 Series	GS/ GSc 5100R GS/ GSc 5200R GSa 5100 GSa 5200

Compatible Software Versions:

EonOne: 2.5.p.07

Important Notes:

1. The rolling upgrading function did not support before the firmware version 133D01. Please shutdown controller before upgrading. The unit might be stuck if operated rolling upgrade, please reboot the unit and the firmware would be the newer version.

Limitation:

1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
3. When using VMWare mounting NFS as data store and create/migrate VMs into GS share folder, I/O may be freezed unexpectedly. If you encounter this, please temporary switch to use block level iSCSI.

New features:

1. Support Yandex Cloud Service Provider in EonCloud Gateway.
2. Support HiCloud Service

Enhancements:

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1. Enhances AD functions. (ID: 1900128)
 2. Enhances event log function. (ID: 1900062)
 3. Enhances the Object protocol. (ID: 1800396)
 4. Changes Jumbo frame size from 9K to 8K for better utilization of RAM.

Bugs fixes:

1. Fixes: Sometimes the media scan results is different between CLI and system information. (ID: 1800145)
2. Fixes: Sometimes the cloud task keeps initializing and the files might unable to synchronize when ACL synchronization option is enabled. (ID: 1800289)
3. Fixes: Sometimes it might take too long to set ACL on EonOne. (ID: 1800362)
4. Fixes: Sometimes IO might hang when executing tier migration function. (ID: 1900128)
5. Fixes: Sometime user with read only permission cannot copy file or read file via AFP protocol. (ID: 1900266)
6. Fixes: Sometimes it might encounter IO time out when using Infiniband host board. (ID: 1900324)
7. Fixes: Sometimes the controller might fail when delete a pool with tier while the tier migration has been aborted/failed. (ID: 1900311)
8. Fixes: Sometimes the controller might hang when running some specific commands/functions. (ID: 1900294)
9. Fixes: Sometimes Rsync might be incompatible from GS to non-GS modes when source file contain large files. (ID: 1900312)
10. Fixes: Sometimes when using Windows dir command to list the file size which contains large files might show wrong size. (ID: 1900300)
11. Fixes: Sometimes it might show drive failure on display when SED function is enabled while Seagate drive model number XS7680SE70024 is inserted. (ID: 1900325)
12. Fixes: Sometimes AD join might fail when TLS is enabled on Windows AD server. (ID: 1900327)
13. Fixes: Sometimes the CIFS/SMB configuration would be reset to the factory default after rebooting. (ID: 1900326)
14. Fixes: 10G iSCSI link up and down frequently when there is no connect cable on it. (ID: 1900277)
15. Fixes: Sometimes AD join might fail when the router has an incorrect DNS server address. (ID: 1900328)
16. Fixes: Sometimes SNMP notification might not deliver information when primary controller failure occurred. (ID: 1900276)

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17. Fixes: Sometimes there might not be enough resource to handle when huge amount of complicated domain users were joined, and might cause EonOne be stuck. (ID: 1900177, 1900283)
 18. Fixes: Sometimes the improper resource allocate might cause IO hang. (ID: 1900206)
 19. Fixes: Sometimes it might not show the extended LUN on ESXi 6.5 when IQN alias name includes capital letters. (ID: 1900208)
 20. Fixes: Sometimes it might show incorrect display and unable to delete when trunking with 4 channels. (ID: 1800055)
 21. Fixes: Sometimes IO might be stuck when using VMWare. (ID: 1800190)
 22. Fixes: Sometime the system might hang when performing rolling upgrade. (ID: 1900113)
 23. Fixes: Sometime the system might hang when reset controller. (ID: 1900225)
 24. Fixes: Sometimes it might show the wrong event after the media scan task completed. (ID: 1900204)
 25. Fixes: Sometimes controller might fail when huge amounts of SAS errors are reported in a short period. (ID: 1900163, 1900090).
 26. Fixes: Sometimes it might show wrong usage of data service on target unit when performing remote replication task. (ID: 1900251)

Known Issues:

1. Sometimes AD join might fail when TLS is enabled on Linux-based AD server. (ID: 1900306)

Firmware 1.45Q02 Release Note

Updated: Jan. 20th, 2020

Applicable products:

Binary File Name	FA145Q02_278_IFT_ESGS.BIN
MD5 Checksum	EF7FC4CE4F41FF09053D0C30C98FA7DE
Applicable Models	
GS/GSc/GSa 5000 Series	GS/ GSc 5100R GS/ GSc 5200R GSa 5100 GSa 5200

Compatible Software Versions:

EonOne: 2.5.o.102

Important Notes:

1. The rolling upgrading function did not support before the firmware version 133D01. Please shutdown controller before upgrading. The unit might be stuck if operated rolling upgrade, please reboot the unit and the firmware would be the newer version.

Limitation:

1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
3. When using VMWare mounting NFS as data store and create/migrate VMs into GS share folder, I/O may be freezed unexpectedly. If you encounter this, please temporary switch to use block level iSCSI.

New features:

None

Enhancements:

None



Bugs fixes:

1. Fixes: Sometimes AD join might fail when TLS is enabled on Windows AD server. (ID: 1900327)
2. Fixes: Sometimes AD join might fail when the router has an incorrect DNS server address. (ID: 1900328)
3. Fixes an issue that sometimes there might not be enough resource to handle when huge amount of complicated domain users were joined, and might cause EonOne be stuck. (ID: 1900177).

Known Issues:

1. Sometimes AD join might fail when TLS is enabled on Linux-based AD server. (ID: 1900306)

Firmware 1.45B20Release Note

Updated: Nov.11th, 2019

Applicable products:

Binary File Name	FA145B20_278_IFT_ESGS.BIN
MD5 Checksum	395B5DE0AF040A442A482F2183C69410
Applicable Models	
GS/GSc/GSa 5000 Series	GS/GSc 5100R GS/GSc 5200R GSa 5100 GSa 5200

Compatible Software Versions:

Central EonOne: 2.5.o.12

NAS: 73.13.0-014

Important Notes:

1. The rolling upgrading function did not support before the firmware version 133D01. Please shutdown controller before upgrading.
2. The unit might be stuck if operated rolling upgrade, please reboot the unit and the firmware would be the newer version.

Limitation:

1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
3. When using VMWare mounting NFS as data
4. store and create/migrate VMs into GS share folder, I/O may be freezed unexpectedly. If you encounter this, please temporary switch to use block level iSCSI.

New features:

1. Object protocolin shared folders service supports Minio process. Object protocol cannot be chosen when using the rest of protocols because it might cause some problems when using object protocol and others at the same time.(ID: 51440, 51444)

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2. Support Wasabi provider.(ID: 51201, 52067, 51203, 51204)
 3. Support activate/deactivate feature for defragmentation. (ID:1900234)
 4. Support 32Gb host board.

Enhancements:

1. Enhances SMB protocol of Mac OSX. (ID: 1800118).
2. Enhances iSCSI 40Gb read and write performance. (ID: 1900159).
3. Enhances AD join function. (ID: 42577, 49376)
4. Enhances Remote Replication function.(ID: 28470, 48134, 38636, 39359)
5. Adds pop-up message that "Online Initialization is ongoing, please wait until the Logical Drive initialization is completed" to remind users when they are creating multiple Logical Drive simultaneously. (ID:1900077)
6. Enhances event function when there are too many files are not yet uploaded to cloud. (ID: 53481)

Bugs fixes:

1. Fixes an issue that sometimes the NAS CPU usage shows high percentage without I/O. (ID: 1900168)
2. Fixes an issue that sometimes after removing user expiration, users still cannot log into file explorer.(ID: 1900179)
3. Fixes an issue that sometimes the NFS service cannot work normally after replacing a controller.(ID: 1900195)
4. Fixes an issue that sometimes the process of updating user list might be stuck on file explorer when clicking "Update User List" button on EonOne without clicking the "Refresh" button on file explorer. (ID: 1900198)
5. Fixes an issue that sometimes cannot set ACL due to overwritten setting. (ID: 1900246)
6. Fixes an issue that FTP sometimes might be disconnected. (ID: 1900237)
7. Disabled TLS 1.0.(ID: 1900223)
8. Fixes an issue that sometimes when deleting SCSI ID might cause controller fail. (ID: 1900146)
9. Fixes an issue that sometimes the snapshot might not be able to mount when a middle snapshot was deleted.(ID: 1900231)
10. Fixes an issue that sometimes the snapshot might not be able to mount after rebooting when out of free space. (ID:1900241)
11. Fixes pool allocation problems when complexly adding Logical Drives. (ID: 1900238, 1900167)



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12. Fixes NVRAM exports abnormally. (ID: 1900244)
 13. Fixes Pool cannot expand after adding Logical Drive, and the usage space shows zero. (ID: 1900257)
 14. Fixes file explorer sometimes cannot access NTFS format USB drive. (ID: 1900259)
 15. Fixes costing CPU/disk IO resource or GUI cannot access when NAS check file system fragment status by adding activate/deactivate feature for defragmentation. (ID:1900234)
 16. Fixes an issue that sometimes USB disk cannot be detected correctly which might cause controller hang up.(ID: 1900191)
 17. Fixes GUI does not show S3 endpoint URL when VLAN is configured.(ID: 1900243)
 18. Fixes an issue that sometimes when transferring SyncCloud to EonCloud might encounter compatibility problem. (ID: 1900194)

Firmware 1.44B17Release Note

Updated:Aug.28, 2019

Applicable products:

Binary File Name	FA144B17_277_IFT_ESGS.BIN
MD5 Checksum	A17C373ECD28CDCE3F8B0FCA6FC6DF0
Applicable Models	
GS/GSc 5000 Series	GS/GSc5100R GS/GSc5200R

Compatible Software Versions:

Central EonOne: 2.5.n.12

NAS: 73.12.0-34

Important Notes:

1. The rolling upgrading function did not support before the firmware version 133D01. Please shutdown controller before upgrading.The unit might be stuck if operated rolling upgrade, please reboot the unit and the firmware would be the newer version.

Limitation:

1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
2. Volume cannot be rolled back by snapshot when using cloud-connected folder.

New features:

1. Support cloud provider: Google Cloud.
2. Unified password on GS model. (ID: 1800352).
3. Support case-insensitivity for AFP. (ID: 51121).
4. Support Online Help. (ID: 52245).

Enhancements:

1. Enhances WORM Retention Period option to one year. (ID: 1900166).
2. Enhances Rsync function display. (ID: 1900118).

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3. Enhances AFP setting. (ID: 1900111).
 4. Enhances event logs. (ID: 1900133 and 1900109).
 5. Enhances notification function. (ID: 50552).
 6. Support bottom line as naming rule of Logical Volume. (ID: 1900096).

Bugs fixes:

1. Fixes an issue that sometimes thread resource would be depleted due to lots of large sized Read operation which might cause controller hang. (ID: 1800415 and 1800374).
2. Fixes an issue that sometimes Copy and Replace function might operate to wrong objective. (ID: 1900149).
3. Fixes interworking with BOSCH VMS. (ID: 1800358)
4. Fixes an issue that sometimes the controller might fail because the VASA function is disabled. (ID: 1900101 and 1900115).
5. Fixes an issue that sometimes when mapping the extending iSCSI ID without restart might cause controller failure. (ID: 1900155).
6. Fixes an issue that sometimes share folder's Quota cannot be set on EonOne. (ID: 1900150).
7. Fixes an issue that sometimes when driver reset the port of the FC chip to meet with time out but the chip doesn't respond correctly might cause controller failure.(ID: 1800407).

Known Issues:

1. When using VMWare mounting NFS as datastore and create/migrate VMs into GS share folder, I/O may be freezed unexpectedly.If you encounter this, please temporary switch to use block level iSCSI.

Firmware 1.43B13Release Note

Updated:Jun.26, 2019

Applicable products:

Binary File Name	FA143B13_276_IFT_ESGS.BIN
MD5 Checksum	DE750AB7883556172786FDD5CB3A7E2E
Applicable Models	
GS/GSc 5000 Series	GS/GSc5100R GS/GSc5200R

Compatible Software Versions:

Central EonOne: 2.5.m.50

NAS: 73.11.0-34

Important Notes:

1. The rolling upgrading function did not support before the firmware version 133D01. Please shutdown controller before upgrading.The unit might be stuck if operated rolling upgrade, please reboot the unit and the firmware would be the newer version.

Limitation:

1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
2. Volume cannot be rolled back by snapshot when using cloud-connected folder.

New features:

1. Support OFED 4.5 on Infiniband. (ID: 1900052).
2. Support Tencent Cloud.

Enhancements:

1. Performance enhancement.
2. Enhances event log function. (ID: 1800158, 1800320, 1800372 and 41774).
3. Enhances Jumbo frame function.

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4. Enhances Docker function.
 5. Enhances display of service ID. (ID: 1900070).
 6. Enhances NIS service. (ID: 1900021).
 7. Enhances AD service. (ID: 1900021).

Bugs fixes:

1. Fixes an issue that using iSCSI 40G cable may lead to network connection unstable. (ID: 1800387).
2. Fixes an issue that sometimes when using Infiniband 56G host board might cause controller failure and firmware incompatible issue. (ID: 1800166, 1800332 and 1800408).
3. Fixes an issue that sometimes host IO abort might cause controller failure. (ID: 1900008).
4. Fixes an issue that sometimes Remote Replication task might not be successfully created even if the network diagnostic test passed. (ID: 1900046).
5. Fixes an issue that sometimes hostboard might not be detected when using the older version (142A21). (ID: 1900048).
6. Fixes an issue that some improper resource allocation might cause IO abort and cause controller failure. (ID: 1900082).
7. Fixes an issue that sometimes when using converged host board to create channel trunking might cause controller fail to do failover. (ID: 1900033).
8. Fixes an issue that sometimes NAS fail might cause failover and failback to fail. (ID: 1900083).
9. Fixes an issue that sometimes it might not be able to access the share folder when the LD is assigned to the secondary controller. (ID: 1900014).
10. Fixes an issue that sometimes setting advanced ACL might fail because EonOne timeout. (ID: 1900117).
11. Fixes an issue that sometimes customizing EonOne or central EonOne might fail. (ID: 47124).
12. Fixes an issue that sometimes the display shows the incorrect size of share folder on EonOne. (ID: 1900042).
13. Fixe an issue that sometimes infinite loop might cause controller fail. (ID: 1900116).
14. Fixes an issue that sometimes Fiber HostBoard might cause controller cycling bootup. (ID: 1900110).

Known Issues:

1. When using VMWare mounting NFS as datastore and create/migrate VMs into GS share



folder, I/O may be freezed unexpectedly.If you encounter this, please temporary switch to use block level iSCSI.

Firmware 1.42B06Release Note

Updated:Apr.12, 2019

Applicable products:

Binary File Name	FA142B06_275_IFT_ESGS.BIN
MD5 Checksum	F148DF85BF635A6E2B4D20614061EC39
Applicable Models	
GS/GSc 5000 Series	GS/GSc5100R GS/GSc5200R

Compatible Software Versions:

Central EonOne: 2.5.l.15
NAS: 73.10.1-21

Important Notes:

1. The rolling upgrading function did not support before the firmware version 133D01. Please shutdown controller before upgrading.The unit might be stuck if operated rolling upgrade, please reboot the unit and the firmware would be the newer version.

Limitation:

1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.

New features:

1. Supported Baidu Cloud.
2. Added new schedule function of backup to EonCloud Gateway. (ID: 39686).
3. Add new feature of exporting history to EonCloud Gateway. (ID: 41778).

Enhancements:

1. Enhances network diagnosticfunction. (ID: 41777).
2. Changes browser tab title to "Docker". (ID: 44487).

Bugs fixes:

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1. Fixes an issue that sometimes Volume cannot be seen by Fiber. (ID: 1900086).
 2. Fixes an issue that sometimes the display for "available use space" would not be changed after actual IO behavior. (ID: 47522).

Known Issues:

1. When using VMWare mounting NFS as datastore and create/migrate VMs into GS share folder, I/O may be freezed unexpectedly.If you encounter this, please temporary switch to use block level iSCSI.

Firmware 1.42B05 Release Note

Updated:Apr.1, 2019

Applicable products:

Binary File Name	FA142B05_275_IFT_ESGS.BIN
MD5 Checksum	1D74FB516193191F6FEE597AB803589F
Applicable Models	
GS/GSc 5000 Series	GS/GSc5100R GS/GSc5200R

Compatible Software Versions:

Central EonOne: 2.5.l.14
NAS: 73.10.1-20

Important Notes:

1. The rolling upgrading function did not support before the firmware version 133D01. Please shutdown controller before upgrading.The unit might be stuck if operated rolling upgrade, please reboot the unit and the firmware would be the newer version.

Limitation:

1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.

New features:

None.

Enhancements:

None.

Bugs fixes:

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1. Fixes an issue sometime when set parameter "Peripheral Device Qualifier" as Supported but not Connected might cause create File-Level Volume failed. (ID: 1800382, 43788 and 43789).
 2. Fixes an issue that sometimes it might take too long to delete snapshot. (ID: 1800017).
 3. Fixes an issue that sometime when the reserved size of metadata is too small might cause create File-Level Volume failed. (ID: 1800410).
 4. Fixes an issue that sometimes when a name of share folder includes a blank character might cause the share folder cannot be selected when operating Remote Replication. (ID: 1900007, 45902, 46190 and 46191).
 5. Fixes an issue that sometimes it might not be able to customize central EonOne. (ID: 47090).
 6. Fixes an issue that sometimes when removing the users from AD Server might cause the ACL setting error. (ID: 1800377).
 7. Fixes an issue that sometimes when the Pool is assigned to a controller which is not actual inserted in unit might cause privilege setting failure. (ID: 43575).
 8. Fixes an issue that some improperresource allocation might cause heartbeat timeout and cause primary controller be killed by secondary controller. (ID: 1800275).
 9. Fixes an issue that sometimes Jumble Frame size might be incorrect. (ID: 1900019).
 10. Fixes an issue that sometimes rename a Volume might cause NFS service be stuck at 32%. (ID: 1800404).
 11. Fixes an issue that sometimes channels be disconnect on controller might cause IO hang. (ID: 1800367).
 12. Fixes an issue that sometimes the performance might be worse when using dual controllers. (ID: 1800054).
 13. Fixes an issue that sometimes when operating cluster by using 4 or above servers might cause Fiber connection unstable. (ID: 1800402).
 14. Fixes an issue that sometimes VASA might cause controller failure. (ID: 1900056 and 1900099).
 15. Fixes an issue that sometimes Read Ahead function might cause controller failure. (ID: 1900053, 1900055 and 1900057).
 16. Fixes an issue that sometime improperresource allocation might cause controller failure.(ID: 1900009).
 17. Fixes an issue that sometimes NAS Volume might be failed to create when using customization firmware. (ID: 1900071).
 18. Fixes an issue sometimes when all drives are formatted drives but no Logical Drive be created might cause the service center might send a lot of notification. (ID: 1900043).
 19. Fixes an issue sometimes the Enclosure view might display wrong rear view. (ID:



1900020).

20. Fixes an issue sometimes when changing the Pool operation mode from asynchronous to synchronous, the whole system might be reboot without any warning. (ID: 1900016).
21. Fixes an issue that sometimes it might fail to enable the cluster function of moving disk to the best node. (ID: 1900027).
22. Fixes an issue that sometimes controller might shutdown suddenly after LUN mapping. (ID: 1800154).
23. Fixes an issue that controller may fail when receiving excessive amount of fiber initiator login requests. (ID: 1700342).
24. Fixes an issue sometimes controller failover won't be triggered when the other controller fail. (ID: 1700392).
25. Fixes an issue that sometimes logical drive may be locked and the corresponding partition is shown uninitialized on Windows. (ID: 1800015, 1800005).
26. Fixes an issue that sometimes media scan process may be stuck in 0% of scanning one logical drive. (ID: 1800008).
27. Fixes an issue that sometimes attention LED Light may be abnormally light up on front panel. (ID: 1800027, 1800029).
28. Fixes an issue that sometimes I/O may hang while using iSCSI channel. (ID: 1800053).
29. Provides a method to prevent controller failure. (ID: 1800066).
30. Fixes an issue that sometimes the unit might be auto reboot several times during the process of booting up. (ID: 1800081).
31. Fixes an issue that sometimes controller might fail due to NAS boot up unsuccessfully. (ID: 1800086).
32. Fixes an issue that sometimes the Read/Write operation might be stuck due to some allocation request abnormal. (ID: 1800176).
33. Fixes an issue that sometimes restoring from EonCloud Gateway might cause controller failure. (ID: 1800257).
34. Fixes an issue that sometimes spare drive might get stuck while rebooting failed drive. (ID: 1800285).
35. Fixes an issue that sometimes Volume mounting failed might cause controller cannot boot up successfully. (ID: 1800322, 41185 and 40812).
36. Fixes an issue that sometimes it might display virtual devices with wrong LUN channel on server side. (ID: 1900091).

Known Issues:

1. When using VMWare mounting NFS as datastore and create/migrate VMs into GS share



folder, I/O may be freezed unexpectedly.If you encounter this, please temporary switch to use block level iSCSI.



Firmware 1.39G03Release Note

Updated:Mar.6, 2019

Applicable products:

Binary File Name	FA139G03_273_IFT_ESGS.BIN
MD5 Checksum	75C5DF8D98A74EC447DC6FA7E1FCA828
Applicable Models	
GS/GSc 5000 Series	GS/GSc5100R GS/GSc5200R

Compatible Software Versions:

Central EonOne: 2.5.k.16

NAS: 73.9.1-22

Important Notes:

1. The rolling upgrading function did not support before the firmware version 133D01. Please shutdown controller before upgrading.The unit might be stuck if operated rolling upgrade, please reboot the unit and the firmware would be the newer version.

Limitation:

1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.

New features:

None.

Enhancements:

None.

Bugs fixes:

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1. Fixes an issue that sometimes removing the user on AD server might cause privilege on parent folders and child folders inconsistency. It could also cause ACL inheritance failure. (ID: 1900013).
 2. Fixes an issue that when using firmware version 139B08, IP of trunking channel would be reset to DHCP every time when system reboot. (ID: 46314).

Known Issues:

1. When using VMWare mounting NFS as datastore and create/migrate VMs into GS share folder, I/O may be freezed unexpectedly.If you encounter this, please temporary switch to use block level iSCSI.

Firmware 1.39B08Release Note

Updated:Apr.12, 2019

Applicable products:

Binary File Name	FA139B08_273_IFT_ESGS.BIN
MD5 Checksum	138998EA3C33FFDFB6E5A6FAF2ACD76D
Applicable Models	
GS/GSc 5000 Series	GS/GSc5100(5100R) GS/GSc5200(5200R)

Compatible Software Versions:

Central EonOne: 2.5.j.15

NAS: 73.4.0-043

Important Notes:

1. This is a limitation of this version (139B08). The IP of trunking channel would be reset to DHCP every time the system reboot. Please reconfigure trunking channel to static IP after reboot.
2. The rolling upgrading function did not support before the firmware version 133D01. Please shutdown controller before upgrading.The unit might be stuck if operated rolling upgrade, please reboot the unit and the firmware would be the newer version.

New features:

1. Added new event for Rsync feature. (ID: 1800359).
2. Added upgrade BIOS function on EonOne. (ID: 1800283).
3. Added new feature: XFS defragmentation. (ID: 41309).
4. Added new feature which allow user to change password on file explorer. (ID: 42900).

Enhancements:

1. Enhance history function. (ID: 38662).
2. Enhances event table to avoid misprint log. (ID: 1800099).
3. Enhancesnotification of Disaster Recovery function. (ID: 1800059).
4. Enhances NAS network restore feature.(ID: 43121).
5. Enhances SI backup function on EonCloud Gateway. (ID: 34616).

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6. Enhances import function of user list. (ID: 42904).
 7. EonOne UX enhancement. (ID: 42918).
 8. Enhance Deduplication function. (ID: 32636).
 9. Enhance SMART function. (ID: 42433).

Bugs fixes:

1. Fixes an issue that sometimes data may fail to read after reading the same data multiple times. (ID: 1800035).
2. Fixes an issue that sometimes operating disaster recovery test might cause controller failure. (ID: 1800061).
3. Fixes an issue that sometimes copy files to EonCloud Getway might cause controller failure. (ID: 1800077).
4. Fixes an issue that sometimes when operating multiple Rsync Process might cause Sync Cloud malfunctional. (ID: 1800084).
5. Fixes an issue that sometimes channel performance might show incorrect on EonOne. (ID: 1800085).
6. Fixes an issue that sometimes the local spare drive failed might cause the controller unbootable while inserting drives at same time. (ID: 1800087).
7. Fixes an issue that sometimes the WEB GUI may be inaccessible.(ID: 1800100).
8. Fixes an issue that sometimes disconnect EonCloud Getway might cause Disaster Recovery failure. (ID: 1800110).
9. Fixes an issue that sometimes disable "Real Time Cache Update function" on EonCloud Getway might get failed.(ID: 1800111).
10. Fixes an issue that sometimes edit user privilege for share folder might fail. (ID: 1800116).
11. Fixes an issue that sometimes using cp command might fail due to permission error. (ID: 1800124).
12. Fixes an issue that sometimes operate heavy IO via NFS protocol might cause controller failure. (ID: 1800170).
13. Fixes an issue that sometimes Linux terminal might not list all of share folder by using showmount command. (ID: 1800179).
14. Fixes an issue that sometimes when operating multiple Rsync process to different folders might cause controller failure. (ID: 1800194).
15. Fixes an issue that sometimes system might lose data channel IP and trunk setting after firmware upgraded to version 1.33S08.(ID: 1800205).
16. Fixes an issue that sometimes privilege setting might get stuck on EonOne when share folder contain large files.(ID: 1800211).

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17. Fixes an issue that sometimes the size and checksum of a file might be inconsistent after downloading from the Cloud. (ID: 1800236).
 18. Fixes an issue that sometime files or folders might be inconsistent when syncing files to EonCloud Getway. (ID: 1800329).
 19. Fixes an issue that sometimes controller failure might cause RCC timeout. (ID: 1800103).
 20. Enhances internal system to avoid controller shutdown due to unexpected condition. (ID: 1800108).
 21. Fixes an issue that sometimes the notification email might not be sent out in time. (ID: 1800151).
 22. Fixes an issue that sometimes operate IO might be stuck through 40 Gb iSCSI connection. (ID: 1800159).
 23. Fixes an issue that sometimes the Input/Output operation might be stuck and performance may drop on VMware. (ID: 1800162).
 24. Fixes an issue where time in the eazvent log might be incorrect. (ID: 1800163).
 25. Fixes an issue that sometimes the Input/Output operation might hang on VMware. (ID: 1800168).
 26. Fixes an issue that sometimes importing NVRAM to a new host board might cause physical hard drive absent on SANWatch. (ID: 1800173).
 27. Fixes an issue that sometimes the media scan schedule might not complete. (ID: 1800174).
 28. Fixes an issue that sometimes the unit might not reboot successfully when a local spare drive be removed during the reboot procedure. (ID: 1800227).
 29. Fixes an issue that sometimes the unit might not reboot successfully when there is a LD fatal failure detected. (ID: 1800233).
 30. Fixes an issue sometimes reserved space from a removed spare drive might cause controller failure. (ID: 1800245).
 31. Fixes an issue that sometimes controller might fail when triggering memory dump. (ID: 1800253).
 32. Fixes an issue that sometimes create more than 15 logical volumes might cause the controller hangs. (ID: 1800261).
 33. Fixes an issue that sometimes create file system on VMware might fail due to incompatible APIs. (ID: 1800278).
 34. Fixes an issue that sometimes when system hasn't been rebooted for 777.9 days, management port may not be available and date may be stuck as well. (ID: 1800312).
 35. Fixes an issue sometime operate "role switch" might cause controller failure. (ID: 1800246).
 36. Fixes an issue that sometimes connecting JBOD during boot up procedure might cause the unit initialize uncompleted.(ID: 1800148).

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37. Fixes an issue that sometimes the unit might not boot up successfully when there are four JBOD connections. (ID: 1800244).
 38. Fixes an issue that sometimes using thin-provision feature on volume might cause data corrupt.(ID: 1800070).
 39. Fixes an issue that sometimes removing one controller during Read/Write operation might cause cache dirty that lead controller failure occurs.(ID: 1800138).
 40. Fixes an issue that sometimes the controller might suddenly shut down after LUN mapping. (ID: 1800154).
 41. Fixes an issue that sometime searching, editing or selecting a share folder might cause all share folders to be deleted. (ID: 1800304).
 42. Fixes an issue that sometimes controller might fail when using HTTPs to access embedded RAIDWatch. (ID: 1800203).
 43. Fixes an issue that sometimes the LED still light up after removing fiber cable. (ID: 1800024).
 44. Fixes an issue that sometimes when taking snapshot, the IO might hang. (ID: 1800051).
 45. Fixes an issue that sometimes when deleting "LUN mapping", the GUI still shows high throughput on performance. (ID: 1800115).
 46. Fixes an issue that sometimes controller I/O may suddenly be stuck and controller may shutdown. (ID: 1800177)
 47. Fixes an issue that sometimes Email notification feature might not work properly. (ID: 1800199).
 48. Fixes an issue that sometimes EonONE might get stuck at the login page when operating force fail primary controller feature via WebGUI. (ID: 43240 and 43134).
 49. Fixes an issue that sometimes setting VLAN IP on channel might cause communication abnormal and cause some application like AD Server might not use. (ID: 1800388, 44680 and 43872).
 50. Fixes an issue that sometimes AFP share monitor doesn't show all sessions. (ID: 1800400 and 44660).
 51. Fixes an issue that sometime rename volume after mounted on Linux might cause the volume status abnormal. (ID: 1800401).
 52. Fixes an issue that sometimes when NTP Broadcast filling into buffer might cause controller failure. (ID: 1800380).
 53. Fixes an issue that sometimes logical volume creation may fail during the operation of rolling upgrade. (ID: 1800376).
 54. Fixes an issue that sometimes removing AD users might cause failure when getting advanced ACL list. (ID: 1800377).
 55. Fixes an issue that sometimes privilege of share folder cannot be set when Volume is assigned to a non-inserted controller in a redundant unit. (ID: 43574).

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56. Fixes an issue that sometimes data may fail to read after reading the same data multiple times. (ID: 1800035).
 57. Fixes an issue that sometimes SyncCloud task might be stuck. (ID: 1800206).
 58. Fixes an issue that sometimes the permission might be denied when using mkdir command. (ID: 1800221).
 59. Fixes an issue that sometimes might fail to disable Polling Period feature on EonCloud Getway. (ID: 1800349).

Known Issues:

1. When using VMWare mounting NFS as datastore and create/migrate VMs into GS share folder, I/O may be freezed unexpectedly.If you encounter this, please temporary switch to use block level iSCSI.

Firmware 1.38G02Release Note

Updated:Jan.29, 2019

Applicable products:

Binary File Name	FA138G02_272_IFT_ESGS.BIN
MD5 Checksum	F3CC5071A2CA2952BEDE7CAD37821FB2
Applicable Models	
GS 5000 Series	GS 5100(5100R) GS 5200(5200R)

Compatible Software Versions:

Central EonOne: 2.5.j.16

NAS: 73.4.0-045

Important Notes:

1. To support 25G host board, please update to this version (138G02) first. Please **DO NOT** install the host board before upgrading firmware; otherwise, the unit might not be boot up.

New features:

1. Supported 25G host board.

Enhancements:

None.

Bugs fixes:

None.

Known Issues:

1. When using VMWare mounting NFS as datastore and create/migrate VMs into GS share folder, I/O may be freezed unexpectedly.If you encounter this, please temporary switch to use block level iSCSI.

Firmware 1.38B20Release Note

Updated:Nov.21, 2018

Applicable products:

Binary File Name	FA138B20_272_IFT_ESGS.BIN
MD5 Checksum	4AC56171F1BB644C02BD770C1A7C9415
Applicable Models	
GS/GSc 5000 Series	GS 5100 GS 5200 GSc5100 GSc5200

Compatible Software Versions:

Central EonOne: 2.5.j.15

NAS: 73.4.0-043

Important Notes:

None.

New features:

1. Added file access log into system information.
2. Added network recycle bin function.
3. Added monitor function on NAS session.
4. Added Docker Portainer function.
5. Added CPU resource allocate NAS/SAN priority option.

Enhancements:

None.

Bugs fixes:

1. Fixes performance might be poor with 10G iSCSI channel. (ID: 1800147).
2. Fixes an issue where time in the event log might be incorrect. (ID: 1800153).
3. Fixes when accessing share folder via AD domain user account, files copy might fail. (ID: 1800224).
4. To address an issue that sometimes the unit shows an incorrect date which might



could cause operating EonCloud Gateway failure. (ID: 1800308).

5. Fixes "users" of user group might be removed while creating or deleting a same user names as "users", which could cause the new user fail to be created. (ID: 1800337).
6. Fixes block-level channel might automatically trunk after reboot. (ID: 1800348).

Known Issues:

1. When using VMWare mounting NFS as datastore and create/migrate VMs into GS share folder, I/O may be freezed unexpectedly.If you encounter this, please temporary switch to use block level iSCSI.

Firmware 1.37B10Release Note

Updated:Oct11, 2018

Applicable products:

Binary File Name	FA137B10_268_IFT_ESGS.BIN
MD5 Checksum	B6806CC57F23643F54935E8141AC6671
Applicable Models	
GS 5000 Series	GS 5100 GS 5200 GSc5100 GSc5200

Compatible Software Versions:

Central EonOne: 2.5.i.10

NAS: 73.3.0-26

Important Notes:

None.

New features:

None.

Enhancements:

None.

Bugs fixes:

1. Fixes sometimes controller might fail when MaxDriveResponseTimeout or AV optimization is set. (ID: 1800222).
2. Fixes an issue that sometimes privilege setting for share folder might take too long to finish and WebGUI might be stuck during the process. (ID: 1800313).
3. Fixes an issue that sometimes file-level volume may fail to be mounted after upgrading firmware. (ID: 1800072).
4. Fixes an issue that sometimes iSCSI channel may keep sending DHCP request when static IP has been set.(ID: 39380).
5. Fixes an issue that sometimes network connection might be unstable when VLAN is set on trunking channel. (ID: 39644).
6. Added: Record trunking events on event log. (ID: 1800207).

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7. Addresses an issue to prevent TLS/SSL vulnerability issues. (ID: 1800300)
 8. Fixes an issue that sometimes pool might not be able to successfully expand after adding disks to logical drive. (ID: 1800240).
 9. Fixes an issue that sometimes target volume may not be able to mount or create new synchronous mirror schedule when source unit shutdown. (ID: 1800270).
 10. Fixes an issue that sometimes share folders may be deleted when deleting a searched folder.(ID: 1800304).

Known Issues:

1. When using VMWare mounting NFS as datastore and create/migrate VMs into GS share folder, I/O may be freezed unexpectedly.If you encounter this, please temporary switch to use block level iSCSI.



Firmware 1.36Q05Release Note

Updated:Sep17, 2018

Applicable products:

Binary File Name	FA136Q05_256_IFT_ESGS.BIN
MD5 Checksum	8BBEA67FD1DBB8452C3B34BF5555A75D
Applicable Models	
GS 5000 Series	GS 5100 GS 5200 GSc5100 GSc5200

Compatible Software Versions:

Central EonOne: 2.5.e.207

NAS: 73.2.0-357

Important Notes:

None.

New features:

None.

Enhancements:

None.

Bugs fixes:

1. Fixes an issue where volume replication of source volume may synchronize data to a sub-folder that was wrongly created by internal system in target volume after reboot source storage.(ID: 1800291).

Known Issues:

1. When using VMWare mounting NFS as datastore and create/migrate VMs into GS share folder, I/O may be freed unexpectedly.If you encounter this, please temporary switch to use block level iSCSI.



Firmware 1.36I06Release Note

Updated:Aug23, 2018

Applicable products:

Binary File Name	FA136I06_255_IFT_ESGS.BIN
MD5 Checksum	D63DD0A5629B6DFC9C68D6533918D177
Applicable Models	
GS 5000 Series	GS 5100 GS 5200 GSc5100 GSc5200

Compatible Software Versions:

Central EonOne: 2.5.e.203

NAS: 73.2.0-346

Important Notes:

1. This is a initial release for GSc 5000 series, this firmware version support both GS 5000 series and GSc 5000 series.

New features:

1. Add Snapshot reserve option on EonOne pool create page.

Enhancements:

None.

Bugs fixes:

1. Fixessometimes operating Remote Replication may encounter controller failure. (ID: 1800136).
2. Fixes an issue that sometimes SNMP statistics of drives latency may show may show zero (ID: 1800249).
3. Fixes an issue that pool size may not be able to be expanded after adding disk to Logical Drive (ID: 1800240).
4. Fixes an issue that sometimes storage may not be able to be added into Central. (ID: 1800137).
5. Resolves an issue that AD domain group is not applied with correct ACL permission on share folders. (ID: 1800269)

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6. Fixes an issue that sometimes after deleting channels from Target auto mapping page, user is not able to click on ok button. (ID: 1800189)
 7. Fixes an issue that Fibre (WWN) may not be able to be deleted after creation. (ID: 1800150)
 8. Corrects selections and descriptions on LUN mapping page. (ID: 1800135)
 9. Addresses an issue sometimes event logs may not be updated correctly. (ID: 1800126)
 10. Adds IQN of RAID on host channel settings page on EonOne and Central EonOne. (ID: 1700413)
 11. Storage can be added into Central EonOne by auto discover and file-level port. (ID: 1800040).
 12. Allows space in company name on Service Manager page. (ID: 1800001)
 13. Fixes an issue that sometimes CPU usage may reach 100% after host LUN mapping. (ID: 1700414)
 14. Fixes an issue that snapshot may not be taken at configured time. (ID: 1700405)
 15. Controllers can be reset/shutdown individually. (ID: 1700387)
 16. Resolves an issue that sometimes if there is no DHCP network setup in the environment, EonOne may not be accessible after setting up network trunking. (ID: 1700356)
 17. Fixes an issue that management port IP on serial console may be incorrectly shown. (ID: 1800196)
 18. Fixes an issue that sometimes rolling upgrade may not be able to finish. (ID: 1800180, 1800181)
 19. Addresses an issue that Sometimes sub-folder under share folder may be inaccessible. Share folders may be incorrectly shown in Windows explorer. (ID: 1800269)
 20. Snapshot threshold options are added in to EonOne storage/pool menu. (ID: 36652)
 21. Adds force controller failure button. (ID: 31232)
 22. With cloud function, when the cloud receives a snapshot from storage, the snapshot will be deleted on storage. (ID: 27667)
 23. Adds sort solution and changes GUI on snapshot page for user to easier find the snapshot easier. (ID: 27006)
 24. Fixes an issue that sometimes Share name may be changed to same name as Folder name after changing share protocol. (ID: 37277)
 25. Resolves an issue that Firmware/Software notification shows old website. (ID: 34354)
 26. Fixes an issue that sometimes incorrect firmware handling may cause controller failure. (ID: 34002)
 27. Resolves an issue that back up snapshot to cloud may lead controller failure. (ID: 33149)
 28. Fixes an issue where Snapshot share folder may not be able to be edited. (ID: 32981)



29. Adds default setting information to warning message on Trunk group page. (ID: 31939)

Known Issues:

1. When using VMWare mounting NFS as datastore and create/migrate VMs into GS share folder, I/O may be freezed unexpectedly.If you encounter this, please temporary switch to use block level iSCSI.

Firmware 1.33D01 Release Note

Updated: Jun 1, 2018

Applicable products:

Binary File Name	FA133D01_254_IFT_ESGS.BIN
MD5 Checksum	A41FC895B6C47BF927BC0A5E780A977F
Applicable Models	
GS 5000 Series	GS 5100 GS 5200

Compatible Software Versions:

Central EonOne: 2.4.o.06

NAS: 73.2.0-257

Important Notes:

1. This firmware version does not allow rolling upgrade.
2. Please shutdown controller before update firmware.
3. After updating this firmware, please restore factory default.
4. Please update BIOS to version 111K before updating firmware.
5. This firmware version cannot be downgraded.

New features:

None.

Enhancements:

None.

Bugs fixes:

1. Fixed: Sometimes the connection between cloud provider and RAID may disconnect during the DR process. (ID: 1800110).
2. Fixed: Sometimes system may not be able to change the user's privilege of share folder. (ID: 1800116).
3. Fixed: Sometimes the showmount function may not be able to correctly show the folder. (ID: 37045).

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4. Fixed: Sometimes share folder may hang or may not be able to function normally when using NFS service. (ID: 36657).
 5. Fixed: To prevent the wrong order of deleting Sync Cloud task may cause the local share folder will not be accessible. (ID: 34251).
 6. Fixed: Sometimes trunking function may work on trunking four ports and three ports trunking is not able to be deleted. (ID: 34490).
 7. Fixed: Sometimes share folder may not be able to be copied to local server by using cp command. (ID: 35588).
 8. Correct system performance monitor renew from every ten seconds to every one second. (ID: 35299).
 9. Fixed: Sometimes controller may fail while using share folder with NFS service and cloud service. (ID: 37081).
 10. Fixed: Correct Chinese inaccurate description on reset controller page. (ID: 37109).
 11. Fixed: Event log may report wrong warning of SYSLOG server. (ID: 37303).
 12. Fixed: Enable remote folder creates different tasks. (ID: 32021).
 13. Fixed: To prevent delete local folder while the task is still exist in the local folder. (ID: 32948).
 14. Fixed: Sometimes showmount function is not available on Linux server.
 15. Fixed: Sometimes showmount and df function is not available on Linux server.
 16. Fixed: Sometimes upload data may fail while using Object service S3 with Cloudberry. (ID: 35198).
 17. Fixed: Sometimes performance monitor may abnormally show on page. (ID: 1800115).
 18. Fixed: Sometimes block could gateway may fail to connect to cloud with the warning shows "IP Address not found." (ID: 35944).

Known Issues:

None.

Firmware 1.32C13Release Note

Updated: Nov 22, 2017



Applicable products:

Binary File Name	FA132C13_253_IFT_ESGS.BIN
MD5 Checksum	9B22BF838AE48AE800CAF7D206ED41F9
Applicable Models	
GS 5000 Series	GS 5100 GS 5200

Compatible Software Versions:

Central EonOne: 2.4.n.10

NAS: 73.0.10-84

Important Notes:

Initial release.

New features:

None.

Enhancements:

None.

Bugs fixes:

None.

Known Issues:

None.