



# PAC Storage GS/GSe

## Release Note

# Firmware 1.44A17 Release Note

Updated: Aug. 28, 2019

Applicable products:

<b>Binary File Name</b>	FA144A17_277_IFT_ESGS.BIN
<b>MD5 Checksum</b>	5B42C6AF7A115A2C9157191E746F3553
<b>Applicable Models</b>	
<b>GS/GSe 1000 Series</b> <b>GS/GSe 1000 Gen 2 Series</b>	GS 1012 R / S / RT / ST / S2 / R2 GS 1016 R / S / RT / ST / S2 / R2 GS 1024 R / S / RT / ST / RB / SB / RTB / STB / S2 / R2 / S2B / R2B GSe 1012 / 1012T / 10122 GSe 1016 / 1016T / 10162
<b>GS/GSe 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S / RT / ST GS 3016 R / S / RT / ST GS 3024 R / S / RT / ST / RB / SB GS 3025 RB / SB / RTB / STB GS 3060 RL / GL / RTL / GTL GSe 3012 / 3012T GSe 3016 / 3016T
<b>GS 4000 Series</b>	GS 4016 R / S / RT / ST GS 4024 RB / SB / RTB / STB

## Compatible Software Versions:

Central EonOne: 2.5.n.12

NAS: 73.12.0-34



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## Important Notes:

1. When operating the following functions: Adding Drives, Migrating Logical Volume or Initializing on-line Logical Volume, please **DO NOT** upgrade firmware before version 133G50 to the latest firmware. It could cause the Pool to become invalid and cause data lost. Please wait for all procedures to finish and then operate firmware upgrade.
2. The rolling upgrading function did not support before the firmware version 133B08. 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 service. (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).
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)

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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 1.43A32 Release Note

Updated: Jun. 26, 2019

Applicable products:


<b>Binary File Name</b>	FA143A32_275_IFT_ESGS.BIN
<b>MD5 Checksum</b>	675A0F8E529B78C9A20E4E4449933004
<b>Applicable Models</b>	
<b>GS/GSe 1000 Series</b> <b>GS/GSe 1000 Gen 2 Series</b>	GS 1012 R / S / RT / ST / S2 / R2 GS 1016 R / S / RT / ST / S2 / R2 GS 1024 R / S / RT / ST / RB / SB / RTB / STB / S2 / R2 / S2B / R2B GSe 1012 / 1012T / 10122 GSe 1016 / 1016T / 10162
<b>GS/GSe 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S / RT / ST GS 3016 R / S / RT / ST GS 3024 R / S / RT / ST / RB / SB GS 3025 RB / SB / RTB / STB GS 3060 RL / GL / RTL / GTL GSe 3012 / 3012T GSe 3016 / 3016T
<b>GS 4000 Series</b>	GS 4016 R / S / RT / ST GS 4024 RB / SB / RTB / STB

## Compatible Software Versions:

Central EonOne: 2.5.m.50

NAS: 73.11.0-34

## Important Notes:

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1. When operating the following functions: Adding Drives, Migrating Logical Volume or Initializing on-line Logical Volume, please **DO NOT** upgrade firmware before version 133G50 to the latest firmware. It could cause the Pool to become invalid and cause data lost. Please wait for all procedures to finish and then operate firmware upgrade.
  2. The rolling upgrading function did not support before the firmware version 133B08. 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. (ID: 1900074).
2. Enhances event log function. (ID: 1800158, 1800320, 1800372 and 41774).
3. Enhances Jumbo frame function.
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



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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 freed unexpectedly. If you encounter this, please temporary switch to use block level iSCSI.

# Firmware 1.42A21 Release Note

Updated: Apr. 12, 2019

Applicable products:

<b>Binary File Name</b>	FA142A21_273_IFT_ESGS.BIN
<b>MD5 Checksum</b>	04E014F6060E74C74FBED3E2EF6A00D7
<b>Applicable Models</b>	
<b>GS/GSe 1000 Series</b> <b>GS/GSe 1000 Gen 2 Series</b>	GS 1012 R / S / RT / ST / S2 / R2 GS 1016 R / S / RT / ST / S2 / R2 GS 1024 R / S / RT / ST / RB / SB / RTB / STB / S2 / R2 / S2B / R2B GSe 1012 / 1012T / 10122 GSe 1016 / 1016T / 10162
<b>GS/GSe 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S / RT / ST GS 3016 R / S / RT / ST GS 3024 R / S / RT / ST / RB / SB GS 3025 RB / SB / RTB / STB GS 3060 RL / GL / RTL / GTL GSe 3012 / 3012T GSe 3016 / 3016T
<b>GS 4000 Series</b>	GS 4016 R / S / RT / ST GS 4024 RB / SB / RTB / STB


## Compatible Software Versions:

Central EonOne: 2.5.l.15

NAS: 73.10.1-21

## Important Notes:



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1. When operating the following functions: Adding Drives, Migrating Logical Volume or Initializing on-line Logical Volume, please **DO NOT** upgrade firmware before version 133G50 to the latest firmware. It could cause the Pool to become invalid and cause data lost. Please wait for all procedures to finish and then operate firmware upgrade.
  2. The rolling upgrading function did not support before the firmware version 133B08. 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 diagnostic function. (ID: 41777).
2. Changes browser tab title to "Docker". (ID: 44487).

### **Bugs fixes:**

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 1.42A20 Release Note

Updated: Apr. 1, 2019

Applicable products:


<b>Binary File Name</b>	FA142A20_273_IFT_ESGS.BIN
<b>MD5 Checksum</b>	7FB44DFF25B57BB060CFB533C8FE7442
<b>Applicable Models</b>	
<b>GS/GSe 1000 Series</b> <b>GS/GSe 1000 Gen 2 Series</b>	GS 1012 R / S / RT / ST / S2 / R2 GS 1016 R / S / RT / ST / S2 / R2 GS 1024 R / S / RT / ST / RB / SB / RTB / STB / S2 / R2 / S2B / R2B GSe 1012 / 1012T / 10122 GSe 1016 / 1016T / 10162
<b>GS/GSe 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S / RT / ST GS 3016 R / S / RT / ST GS 3024 R / S / RT / ST / RB / SB GS 3025 RB / SB / RTB / STB GS 3060 RL / GL / RTL / GTL GSe 3012 / 3012T GSe 3016 / 3016T
<b>GS 4000 Series</b>	GS 4016 R / S / RT / ST GS 4024 RB / SB / RTB / STB

## Compatible Software Versions:

Central EonOne: 2.5.l.14

NAS: 73.10.1-20

## Important Notes:

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1. When operating the following functions: Adding Drives, Migrating Logical Volume or Initializing on-line Logical Volume, please **DO NOT** upgrade firmware before version 133G50 to the latest firmware. It could cause the Pool to become invalid and cause data lost. Please wait for all procedures to finish and then operate firmware upgrade.
  2. The rolling upgrading function did not support before the firmware version 133B08. 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:**

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 improper resource 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).

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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: 1900054).
  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 improper resource 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).

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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 1.39F04 Release Note

Updated: Mar. 6, 2019

Applicable products:


<b>Binary File Name</b>	FA139F04_269_IFT_ESGS.BIN
<b>MD5 Checksum</b>	166A101B530AA4D8982B8704AC39405E
<b>Applicable Models</b>	
<b>GS/GSe 1000 Series</b> <b>GS/GSe 1000 Gen 2 Series</b>	GS 1012 R / S / RT / ST / S2 / R2 GS 1016 R / S / RT / ST / S2 / R2 GS 1024 R / S / RT / ST / RB / SB / RTB / STB / S2 / R2 / SB2 / RB2 GSe 1012 / 1012T / 10122 GSe 1016 / 1016T / 10162
<b>GS/GSe 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S / RT / ST GS 3016 R / S / RT / ST GS 3024 R / S / RT / ST / RB / SB GS 3025 RB / SB / RTB / STB GS 3060 RL / GL / RTL / GTL GSe 3012 / 3012T GSe 3016 / 3016T
<b>GS 4000 Series</b>	GS 4016 R / S / RT / ST GS 4024 RB / SB / RTB / STB

## Compatible Software Versions:

Central EonOne: 2.5.k.16

NAS: 73.9.1-22

## Important Notes:

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1. When operating the following functions: Adding Drives, Migrating Logical Volume or Initializing on-line Logical Volume, please **DO NOT** upgrade firmware before version 133G50 to the latest firmware. It could cause the Pool to become invalid and cause data lost. Please wait for all procedures to finish and then operate firmware upgrade.
  2. The rolling upgrading function did not support before the firmware version 133B08. 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:**

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 139A29, 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 1.39A29 Release Note

Updated: Feb. 1, 2019

Applicable products:

<b>Binary File Name</b>	FA139A29_269_IFT_ESGS.BIN
<b>MD5 Checksum</b>	C6B704487EF8634F988546FF4E9A4A9A
<b>Applicable Models</b>	
<b>GS/GSe 1000 Series</b> <b>GS/GSe 1000 Gen 2 Series</b>	GS 1012 R / S / RT / ST / S2(S2C) / R2(R2C) GS 1016 R / S / RT / ST / S2(S2C) / R2(R2C) GS 1024 R / S / RT / ST / RB / SB / RTB / STB / S2(S2C) / R2(R2C) / SB2(S2CB) / RB2(R2CB) GSe 1012 / 1012T / 1012G2(10122) GSe 1016 / 1016T / 1016G2(10162)
<b>GS/GSe 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S / RT / ST GS 3016 R / S / RT / ST GS 3024 R / S / RT / ST / RB / SB GS 3025 RB / SB / RTB / STB GS 3060 RL / GL / RTL / GTL GSe 3012 / 3012T GSe 3016 / 3016T
<b>GS 4000 Series</b>	GS 4016 R / S / RT / ST GS 4024 RB / SB / RTB / STB


## Compatible Software Versions:

Central EonOne: 2.5.j.15

NAS: 73.4.0-043

## Important Notes:



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1. This is a limitation of this version (139A29). 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. When operating the following functions: Adding Drives, Migrating Logical Volume or Initializing on-line Logical Volume, please **DO NOT** upgrade firmware before version 133G50 to the latest firmware. It could cause the Pool to become invalid and cause data lost. Please wait for all procedures to finish and then operate firmware upgrade.

### **Limitation:**

1. The rolling upgrading function did not support before the firmware version 133B08. Please shutdown controller before upgrading.

### **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. Enhances notification of Disaster Recovery function. (ID: 1800059).
4. Enhances NAS network restore feature. (ID: 43121).
5. Enhances SI backup function on EonCloud Gateway. (ID: 34616).
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




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failure. (ID: 1800061).

3. Fixes an issue that sometimes copy files to EonCloud Gateway 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 Gateway might cause Disaster Recovery failure. (ID: 1800110).
9. Fixes an issue that sometimes disable "Real Time Cache Update function" on EonCloud Gateway 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).
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 filesto EonCloud Gateway. (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).

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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).
  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

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- 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).
  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 Gateway. (ID: 1800349).

### **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 1.38F07 Release Note

Updated: Jan. 29, 2019

Applicable products:

<b>Binary File Name</b>	FA138F07_268_IFT_ESGS.BIN
<b>MD5 Checksum</b>	5260F2060A25610B17131CC8D467D81B
<b>Applicable Models</b>	
<b>GS/GSe 1000 Series</b> <b>GS/GSe 1000 Gen 2 Series</b>	GS 1012 R / S / RT / ST / S2(S2C) / R2(R2C) GS 1016 R / S / RT / ST / S2(S2C) / R2(R2C) GS 1024 R / S / RT / ST / RB / SB / RTB / STB / S2(S2C) / R2(R2C) / SB2(S2CB) / RB2(R2CB) GSe 1012 / 1012T / 1012G2(10122) GSe 1016 / 1016T / 1016G2(10162)
<b>GS/GSe 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S / RT / ST GS 3016 R / S / RT / ST GS 3024 R / S / RT / ST / RB / SB GS 3025 RB / SB / RTB / STB GS 3060 RL / GL / RTL / GTL GSe 3012 / 3012T GSe 3016 / 3016T
<b>GS 4000 Series</b>	GS 4016 R / S / RT / ST GS 4024 RB / SB / RTB / STB

### Compatible Software Versions:

Central EonOne: 2.5.j.16

**Important Notes:**

1. To support 25G host board, please update to this version (138F07) 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 1.38A41 Release Note

Updated: Nov. 21, 2018

Applicable products:

<b>Binary File Name</b>	FA138A41_268_IFT_ESGS.BIN
<b>MD5 Checksum</b>	0CEDA692B95179046DCD210F400B1E49
<b>Applicable Models</b>	
<b>GS/GSe 1000 Series</b> <b>GS/GSe 1000 Gen 2 Series</b>	GS 1012 R / S / RT / ST / S2(S2C) / R2(R2C) GS 1016 R / S / RT / ST / S2(S2C) / R2(R2C) GS 1024 R / S / RT / ST / RB / SB / RTB / STB / S2(S2C) / R2(R2C) / SB2(S2CB) / RB2(R2CB) GSe 1012 / 1012T / 1012G2(10122) GSe 1016 / 1016T / 1016G2(10162)
<b>GS/GSe 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S / RT / ST GS 3016 R / S / RT / ST GS 3024 R / S / RT / ST / RB / SB GS 3025 RB / SB / RTB / STB GS 3060 RL / GL / RTL / GTL GSe 3012 / 3012T GSe 3016 / 3016T
<b>GS 4000 Series</b>	GS 4016 R / S / RT / ST GS 4024 RB / SB / RTB / STB

## Compatible Software Versions:

Central EonOne: 2.5.j.15

NAS: 73.4.0-043

## Important Notes:

None.



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## **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 1.37A24 Release Note

Updated: Oct 11, 2018

Applicable products:

<b>Binary File Name</b>	FA137A24_266_IPT_ESGS.BIN
<b>MD5 Checksum</b>	EAA1103AD5D7C86D93DE31169A4FD884
<b>Applicable Models</b>	
<b>GS/GSe 1000 Series</b> <b>GS/GSe 1000 Gen 2 Series</b>	GS 1012 R / S / RT / ST / S2C / R2C GS 1016 R / S / RT / ST / S2C / R2C GS 1024 R / S / RT / ST / RB / SB / RTB / STB / S2C / R2C / S2CB / R2CB GSe 1012 / 1012T / 10122 GSe 1016 / 1016T / 10162
<b>GS/GSe 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S / RT / ST GS 3016 R / S / RT / ST GS 3024 R / S / RT / ST / RB / SB GS 3025 RB / SB / RTB / STB GS 3060 RL / GL / RTL / GTL GSe 3012 / 3012T GSe 3016 / 3016T
<b>GS 4000 Series</b>	GS 4016 R / S / RT / ST GS 4024 RB / SB / RTB / STB

## Compatible Software Versions:

Central EonOne: 2.5.i.10

NAS: 73.3.0-26

## Important Notes:

None.



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## **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).
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 1.36P10 Release Note

Updated: Sep 20, 2018

Applicable products:

<b>Binary File Name</b>	FA136P10_265_IPT_ESGS.BIN
<b>MD5 Checksum</b>	4C6A77F3CADD22B565FE1722ED9B3AE
<b>Applicable Models</b>	
<b>GS 3000 Series</b>	GS 3016 R

## Compatible Software Versions:

Central EonOne: 2.5.e.301

NAS: 73.2.0-393

## Important Notes:

None.

## New features:

None.

## Enhancements:

None.

## Bugs fixes:

1. Fixes sometimes file explorer taking too long to list the files when AD server contains too much custom group. (ID: 1800284).
2. Fixes an issue that sometimes when responding time is too long for AD server, create volumes may fail. (ID: 1800302 / 40717).
3. Fixes an issue that sometimes the progress of adding local user may be stuck at 99%, and then fail when manually renew the page. (ID: 1800302 / 40623).
4. Fixed sometimes the progress of setting user's sharefolder privilege may take too long to finish. (ID: 1800313).



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### **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 1.36P07 Release Note

Updated: Sep 17, 2018

Applicable products:

<b>Binary File Name</b>	FA136P07_265_IFT_ESGS.BIN
<b>MD5 Checksum</b>	45AD98745DEEEAA7F7631268BDDA9969
<b>Applicable Models</b>	
<b>GS/GSe 1000 Series</b> <b>GS/GSe 1000 Gen 2 Series</b>	GS 1012 R / S / RT / ST / S2C / R2C GS 1016 R / S / RT / ST / S2C / R2C GS 1024 R / S / RT / ST / RB / SB / RTB / STB / S2C / R2C / S2CB / R2CB GSe 1012 / 1012T / 10122 GSe 1016 / 1016T / 10162
<b>GS/GSe 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S / RT / ST GS 3016 R / S / RT / ST GS 3024 R / S / RT / ST / RB / SB GS 3025 RB / SB / RTB / STB GS 3060 RL / GL / RTL / GTL GSe 3012 / 3012T GSe 3016 / 3016T
<b>GS 4000 Series</b>	GS 4016 R / S / RT / ST GS 4024 RB / SB / RTB / STB

## Compatible Software Versions:

Central EonOne: 2.5.e.207

NAS: 73.2.0-357

## Important Notes:

None.



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**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 freezed unexpectedly. If you encounter this, please temporary switch to use block level iSCSI.

# Firmware 1.36G08 Release Note

Updated: Aug 21, 2018

Applicable products:

<b>Binary File Name</b>	FA136G08_263_IPT_ESGS.BIN
<b>MD5 Checksum</b>	EA99FFC0BFA67481DBE688114347040D
<b>Applicable Models</b>	
<b>GS/GSe 1000 Series</b> <b>GS/GSe 1000 Gen 2 Series</b>	GS 1012 R / S / RT / ST / S2C / R2C GS 1016 R / S / RT / ST / S2C / R2C GS 1024 R / S / RT / ST / RB / SB / RTB / STB / SB2 / RB2 / S2C / R2C / S2CB / R2CB GSe 1012 T / 10122 GSe 1016 T / 10162
<b>GS/GSe 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S / RT / ST GS 3016 R / S / RT / ST GS 3024 R / S / RT / ST / RB / SB GS 3025 RB / SB / RTB / STB GS 3060 RL / GL / RTL / GTL GSe 3012 / 3012T GSe 3016 / 3016T
<b>GS 4000 Series</b>	GS 4016 R / S / RT / ST GS 4024 RB / SB / RTB / STB

## Compatible Software Versions:

Central EonOne: 2.5.e.203

NAS: 73.2.0-346

## Important Notes:

None.



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## **New features:**

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


## **Enhancements:**

None.

## **Bugs fixes:**

1. Fixes sometimes 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)
6. Fixes and 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)



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19. Addresses an issue that Sometimes sub-folder under share folder may be in accessible. 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)
  30. Fixes sometimes errors may occur when creating datastore on VMware. (ID: 1800288)

**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 1.36F09 Release Note

Updated: Aug 8, 2018

Applicable products:

<b>Binary File Name</b>	FA136F09_262_IFT_ESGS.BIN
<b>MD5 Checksum</b>	73EAE29784AF61DC00330384C3B15242
<b>Applicable Models</b>	
<b>GS/GSe 1000 Series</b> <b>GS/GSe 1000 Gen 2 Series</b>	GS 1012 R / S / RT / ST / S2 / R2 GS 1016 R / S / RT / ST / S2 / R2 GS 1024 R / S / RT / ST / RB / SB / RTB / STB / SB2 / RB2 / S2 / R2 GSe 1012 / 1012T /1012G2 GSe 1016 / 1016T /1016G2
<b>GS/GSe 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S / RT / ST GS 3016 R / S / RT / ST GS 3024 R / S / RT / ST / RB / SB GS 3025 RB / SB / RTB / STB GS 3060 RL / GL / RTL / GTL GSe 3012 / 3012T GSe 3016 / 3016T
<b>GS 4000 Series</b>	GS 4016 R / S / RT / ST GS 4024 RB / SB / RTB / STB

## Compatible Software Versions:

Central EonOne: 2.5.e.100

NAS: 73.2.0-609

## Important Notes:

None.



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**New features:**

None.

**Enhancements:**

Enhances internal system.

**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 1.36A33 Release Note

Updated: July 23, 2018

Applicable products:

<b>Binary File Name</b>	FA136A33_262_IPT_ESGS.BIN
<b>MD5 Checksum</b>	86765EC3C964830B33F778176EC7A378
<b>Applicable Models</b>	
<b>GS 1000 Series</b>	GS 1012 R / S / RT / ST / S2 / R2 GS 1016 R / S / RT / ST / S2 / R2 GS 1024 R / S / RT / ST / RB / SB / RTB / STB / SB2 / RB2 / S2 / R2 GSe 1012 / 1012T GSe 1016 / 1016T
<b>GS 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S / RT / ST GS 3016 R / S / RT / ST GS 3024 R / S / RT / ST / RB / SB GS 3025 RB / SB / RTB / STB GS 3060 RL / GL / RTL / GTL GSe 3012 / 3012T GSe 3016 / 3016T
<b>GS/GSe 4000 Series</b>	GS 4016 R / S / RT / ST GS 4024 RB / SB / RTB / STB

## Compatible Software Versions:

Central EonOne: 2.5.d.31

NAS: 73.2.0-312

## Important Notes:

None.



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## **New features:**

1. Supports up to 2048 AFP connections per system.


## **Enhancements:**

None.

## **Bugs fixes:**

1. Fixes: Sometimes channel of extended LUN mapping cannot be deleted on block replication page. (ID: 1800189).
2. Fixes: Fibre(WWN) may fail to be deleted after creating fibre(WWN) on WWN list page. (ID: 2018-00150).
3. Correct the default options setting on "Create LUN mapping to host page". (ID: 2018-00135).
4. Fixes: Sometimes System may start to reboot after clicking create snapshot button and the error code is shown after booting up the unit. (ID: 1800093).
5. Fixes: EonOne may abnormally display while upgrading firmware. (ID: 1800044).
6. Fixes: Logical Drive may fail to be assigned as tier 1 after tier 0 is created in pool. (ID: 1800030).
7. Corrects company name column does not allow space character. (ID: 1800001).
8. Fixes: Sometimes exporting configuration file through CLI may not include SNTP settings. (ID: 1700101).
9. Corrects the description from reset controller to reset system and from shutdown controller to shutdown system. (ID: 1700387).
10. Fixes: Sometimes IQN on RAID may not be shown on GUI. (ID: 1700413).
11. Fixes: The performance may be poor when AD users are increased. (ID: 1800065).
12. During data security issue, the default users privilege is corrected from read only to no right if the user is not added in a group or not be authorized. (ID: 34181).
13. Fixes: Firmware and Software update notifications may have wrong information. (ID: 34360).
14. Add schedule into internal Log event (ID: 32901).
15. Fixes: Sometimes user cannot access share folder via File server name. (ID: 1700344).

## **Known Issues:**

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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 1.35A17 Release Note

Updated: July 2, 2018

Applicable products:

<b>Binary File Name</b>	FA135A17_262_IPT_ESGS.BIN
<b>MD5 Checksum</b>	5B179C01294B30BE00B6BD16A21F6870
<b>Applicable Models</b>	
<b>GS 1000 Series</b>	GS 1012 R / S / RT / ST / S2 / R2 GS 1016 R / S / RT / ST / S2 / R2 GS 1024 R / S / RT / ST / RB / SB / RTB / STB / SB2 / RB2 / S2 / R2 GSe 1012 / 1012T GSe 1016 / 1016T
<b>GS 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S / RT / ST GS 3016 R / S / RT / ST GS 3024 R / S / RT / ST / RB / SB GS 3025 RB / SB / RTB / STB GS 3060 RL / GL / RTL / GTL GSe 3012 / 3012T GSe 3016 / 3016T
<b>GS/GSe 4000 Series</b>	GS 4016 R / S / RT / ST GS 4024 RB / SB / RTB / STB

## Compatible Software Versions:

Central EonOne: 2.5.c.09

NAS: 83.4.0-36

## Important Notes:

None.



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## **New features:**

None.

## **Enhancements:**

None.

## **Bugs fixes:**

1. Fixes: Sometimes After rebooting RAID, primary controller may switch to controller B. (ID: 1700294).
2. Fixes: Sometimes data may fail to read after reading the same data multiple times. (ID: 1800035).
3. Fixes: Controller may fail after deleting files, volumes or pools. (ID: 1700371).
4. Fixes: When mounting NFS share folder using NFSv4, GID/UID may show as nobody/nobody. Same configuration won't happen on NFSv3. (ID: 1800152).
5. Fixes: WWN list may fail to be deleted. (ID: 1800150).
6. Fixes: Web GUI sometimes may not generate event Log. (ID: 1800126).
7. Corrects service manager does not allow space character includes title. (ID: 1700394).
8. Fixes: WORM File-Volume enterprise setting cannot use admin to remove file during retention. (ID: 1800134).
9. Corrects share name in share folder will not be changed when changing folder name. (ID: 37352).
10. Corrects select options on LUN Mapping page. (ID: 1800135).
11. Fixes: Wrong JBOD cable connection may lead controllers fail to boot up. (ID: 1800183).

## **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 1.33G50 Release Note

Updated: May 18, 2018

Applicable products:

<b>Binary File Name</b>	FA133G50_260_IFT_ESGS.BIN
<b>MD5 Checksum</b>	B2FACF891BEE9818F42FEC1366FF2604
<b>Applicable Models</b>	
<b>GS 1000 Series</b>	GS 1012 R / S / RT / ST GS 1016 R / S / RT / ST GS 1024 R / S / RT / ST / RB / SB / RTB / STB GSe 1012 / 1012T GSe 1016 / 1016T
<b>GS 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S / RT / ST GS 3016 R / S / RT / ST GS 3024 R / S / RT / ST / RB / SB GS 3025 RB / SB / RTB / STB GS 3060 RL / GL / RTL / GTL GSe 3012 / 3012T GSe 3016 / 3016T
<b>GS/GSe 4000 Series</b>	GS 4016 R / S / RT / ST GS 4024 RB / SB / RTB / STB

## Compatible Software Versions:

Central EonOne: 2.5.b.103

NAS: 73.1.1-200

## Important Notes:

None.

## New features:



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None.

**Enhancements:**

None.

**Bugs fixes:**

1. Fixes: Sometimes controller may fail when processing IO through iSCSI port. (ID: 1800139).

**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 1.33G30 Release Note

Updated: May 9, 2018

Applicable products:

<b>Binary File Name</b>	FA133G30_260_IPT_ESGS.BIN
<b>MD5 Checksum</b>	7E11E25AC43492D6C03247585B7C492B
<b>Applicable Models</b>	
<b>GS 1000 Series</b>	GS 1012 R / S / RT / ST GS 1016 R / S / RT / ST GS 1024 R / S / RT / ST / RB / SB / RTB / STB GSe 1012 / 1012T GSe 1016 / 1016T
<b>GS 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S / RT / ST GS 3016 R / S / RT / ST GS 3024 R / S / RT / ST / RB / SB GS 3025 RB / SB / RTB / STB GS 3060 RL / GL / RTL / GTL GSe 3012 / 3012T GSe 3016 / 3016T
<b>GS/GSe 4000 Series</b>	GS 4016 R / S / RT / ST GS 4024 RB / SB / RTB / STB

## Compatible Software Versions:

Central EonOne: 2.5.b.103

NAS: 73.1.1-200

## Important Notes:

None.

## New features:



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None.

**Enhancements:**

None.

**Bugs fixes:**

1. Fixes: LED indicators on management port may not light on after rebooting controller (ID: 1800140).
2. Fixes: Sometimes LD may not be able to be configured as tier 1 after creating tier 0 in pool; sometimes user may fail to expand Volume on WEB GUI. (ID: 1800030).
3. Fixes: On NFS service, sometimes NFSv4 mount may show nobody while NFSv3 is correctly shown. (ID: 1800152).
4. Fixes: Sometimes the WEB GUI may be inaccessible. (ID: 1800100).

**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 1.33G12 Release Note

Updated: Apr 10, 2018

Applicable products:

<b>Binary File Name</b>	FA133G12_260_IPT_ESGS.BIN
<b>MD5 Checksum</b>	2F43AA7FF22C4DDC8BC4A1224E3BB35A
<b>Applicable Models</b>	
<b>GS 1000 Series</b>	GS 1012 R / S / RT / ST GS 1016 R / S / RT / ST GS 1024 R / S / RT / ST / RB / SB / RTB / STB GSe 1012 / 1012T GSe 1016 / 1016T
<b>GS 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S / RT / ST GS 3016 R / S / RT / ST GS 3024 R / S / RT / ST / RB / SB GS 3025 RB / SB / RTB / STB GS 3060 RL / GL / RTL / GTL GSe 3012 / 3012T GSe 3016 / 3016T
<b>GS/GSe 4000 Series</b>	GS 4016 R / S / RT / ST GS 4024 RB / SB / RTB / STB

## Compatible Software Versions:

Central EonOne: 2.5.b.102

NAS: 73.1.1-179

## Important Notes:

None.

## New features:

None.



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## **Enhancements:**

None.

## **Bugs fixes:**

1. Fixes: Sometimes percentage of Uninterruptible Power Supply (UPS) may be incorrectly shown in Power page on WEB GUI. (ID: 1800064).
2. Fixes: Sometimes ls command on cmd may take a long time to process if user mounts Volume with NFS service. (ID: 1700419).
3. Fixes: When configuring file-level volume, it may take a long time to finish and the mount status may show l after finishing the configuration. (ID: 1800095).

## **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 1.33G05 Release Note

Updated: Mar 8, 2018

Applicable products:

<b>Binary File Name</b>	FA133G05_260_IPT_ESGS.BIN
<b>MD5 Checksum</b>	2E60B1B42B441C11C1E36580E9698E96
<b>Applicable Models</b>	
<b>GS 1000 Series</b>	GS 1012 R / S / RT / ST GS 1016 R / S / RT / ST GS 1024 R / S / RT / ST / RB / SB / RTB / STB GSe 1012 / 1012T GSe 1016 / 1016T
<b>GS 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S / RT / ST GS 3016 R / S / RT / ST GS 3024 R / S / RT / ST / RB / SB GS 3025 RB / SB / RTB / STB GS 3060 RL / GL / RTL / GTL GSe 3012 / 3012T GSe 3016 / 3016T
<b>GS/GSe 4000 Series</b>	GS 4016 R / S / RT / ST GS 4024 RB / SB / RTB / STB

## Compatible Software Versions:

Central EonOne: 2.5.b.102

NAS: 73.1.1-179

## Important Notes:

None.

## New features:

None.



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## Enhancements:

None.

## Bugs fixes:

1. Fixes: Adjusted event message content of taking snapshots without installing Flush Agent. (ID: 1700406).
2. Added: Allow "@" in the account name of SMTP in Service Manager login account (ID: 1700396).
3. Fixes: When renaming a volume, License Expired error will show up on units without cloud gateway license (ID: 1800043).
4. Fixes: Enhanced the performance of mid-size I/O after a snapshot has been taken (ID: 1800003).
5. Fixes: Controller may fail when deleting files, volumes or pools where user has cloud service in the configuration. (ID: 1700395).
6. Fixes: System fault LED Light may be abnormally light up. (ID: 1800022).

## 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 1.33F02 Release Note

Updated: Feb 12, 2018

Applicable products:

<b>Binary File Name</b>	FA133F02_260_IFT_ESGS.BIN
<b>MD5 Checksum</b>	0055127D985DD0B41A5C9D622A66975F
<b>Applicable Models</b>	
<b>GS 1000 Series</b>	GS 1012 R / S / RT / ST GS 1016 R / S / RT / ST GS 1024 R / S / RT / ST / RB / SB / RTB / STB GSe 1012 / 1012T GSe 1016 / 1016T
<b>GS 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S / RT / ST GS 3016 R / S / RT / ST GS 3024 R / S / RT / ST / RB / SB GS 3025 RB / SB / RTB / STB GS 3060 RL / GL / RTL / GTL GSe 3012 / 3012T GSe 3016 / 3016T
<b>GS/GSe 4000 Series</b>	GS 4016 R / S / RT / ST GS 4024 RB / SB / RTB / STB

## Compatible Software Versions:

Central EonOne: 2.5.b.101

NAS: 73.1.1-173

## Important Notes:

None.



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## **New features:**

None.

## **Enhancements:**

None.

## **Bugs fixes:**

1. Fixes: Sometimes I/O may hang when using iSCSI channel. (ID: 1700411, 1700415)
2. Fixes: Sometimes iSCSI port of controller may not respond to Windows 2016. (ID: 1700410).
3. Fixes: Service Manager "Company Name" field does not accept Space character. (ID: 1800001).

## **Known Issues:**

1. When installed 1 SSD disk and enabled SSD cache, rolling upgrade will cause controller fail.
2. 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 1.33B07 Release Note

Updated: Dec 14, 2017

Applicable products:

<b>Binary File Name</b>	FA133B07_260_IFT_ESGS.BIN
<b>MD5 Checksum</b>	74AC1E3C5903AE5E46ABD93A1C6FC005
<b>Applicable Models</b>	
<b>GS 1000 Series</b>	GS 1012 R / S / RT / ST GS 1016 R / S / RT / ST GS 1024 R / S / RT / ST / RB / SB / RTB / STB GSe 1012 / 1012T GSe 1016 / 1016T
<b>GS 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / RT / RB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S / RT / ST GS 3016 R / S / RT / ST GS 3024 R / S / RT / ST / RB / SB GS 3025 RB / SB / RTB / STB GS 3060 RL / RTL GSe 3012 / 3012T GSe 3016 / 3016T
<b>GS/GSe 4000 Series</b>	GS 4016 R / S / RT / ST GS 4024 RB / SB / RTB / STB

## Compatible Software Versions:

Central EonOne: 2.5.b.12

NAS: 73.1.1-153

## Important Notes:

After installing this version, it is not possible to downgrade to previous version of firmware.

## New features:



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None.

## **Enhancements:**

None.

## **Bugs fixes:**

1. Fixes: After de-asserts failed controller, the deleted snapshot is still occupying data service space (ID: 1700350).
2. Fixes: Firmware for the remote replication does not match the datasheet. (ID: 29877).
3. Fixes: Sometimes controller connected with ATTO 16G FC adapter 8MB I/O size may cause failure (ID: 1700316)
4. Fixes: Statistics showing inaccurate readings on Central EonOne. (ID: 1700279).
5. Fixes: After adding Alias to WWN, the Alias was not shown in EonOne GUI or may receive error. (ID: 1700215).
6. Fixes: Controller may fail when fiber initiator port loss connection with a device (ID: 1700297).
7. Fixes: NFS share cannot delete default \* host. (ID: 1700257).
8. Enhanced: Adding (GMT+03:00) Moscow, Saint Petersburg, Volgograd and (GMT+03:00) Kuwait, Riyadh on Time zone list (ID: 28533).
9. Enhanced: Changing SNMP in user interface (ID: 29299).
10. Enhanced: Remove the IP address of GSe Pro 200 in the main menu (ID: 28935).
11. Fixes: Controller may failed while taking snapshot with the logical drive almost full. (ID: 1700326)
12. Fixes: Sometimes ping from GS to Mac OS cannot work, due to some routing entry disappearing (ID: 1700357).
13. Fixes: If there is a space in the WWN alias name, the WWN alias cannot be deleted (ID: 1700225).
14. Fixes: SMTP server with a 4 level domain name is not accepted (ID: 1700234).
15. Fixes: If using invalid physical channel to query information, management port IP may disappear (ID: 1700314).
16. Fixes: Using Remote Replication to test the bandwidth, the log and result is different (ID: 1700319).
17. Fixes: Sometimes it may be fail to issue I/O to the iSCSI channel (ID: 1700336).
18. Fixes: File-level channel performance chart have abnormal figures (ID: 31113).
19. Enhanced: Pop-up notice for file level volume snapshots (ID: 31110).



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**Known Issues:**

1. When installed 1 SSD disk and enabled SSD cache, rolling upgrade will cause controller fail.
2. When using Symmetric Active-Active and rolling upgrade firmware, controller may fail.

# Firmware 1.33A10 Release Note

Updated: Nov 29, 2017

Applicable products:

<b>Binary File Name</b>	FA133A10_259_IFT_ESGS.BIN
<b>MD5 Checksum</b>	EDBD624FFA82E19BC1D3E08442FB999F
<b>Applicable Models</b>	
<b>GS/GSe 1000 Series</b>	GS 1012 R / S / RT / ST GS 1016 R / S / RT / ST GS 1024 R / S / RT / ST / RB / SB / RTB / STB GSe 1012 / 1012T GSe 1016 / 1016T
<b>GS/GSe 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S / RT / ST GS 3016 R / S / RT / ST GS 3024 R / S / RT / ST / RB / SB GS 3025 RB / SB / RTB / STB GS 3060 RL / RTL GSe 3012 / 3012T GSe 3016 / 3016T
<b>GS/GSe 4000 Series</b>	GS 4016 R / S / RT / ST GS 4024 RB / SB / RTB / STB

## Compatible Software Versions:

Central EonOne: 2.5.b.07

NAS: 73.1.1-120

## Important Notes:

None

## New features:

None



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**Enhancements:**

None

**Bugs fixes:**

1. Sometimes the performance of saving file in share folder is poor when there are huge amount of data in share folder.

**Known Issues:**

None.

# Firmware 1.33A07 Release Note

Updated: Nov 2, 2017

Applicable products:

<b>Binary File Name</b>	FA133A07_259_IFT_ESGS.BIN
<b>MD5 Checksum</b>	4915483D10AC5C6B0336E65DB16ECE22
<b>Applicable Models</b>	
<b>GS/GSe 1000 Series</b>	GS 1012 R / S / RT / ST GS 1016 R / S / RT / ST GS 1024 R / S / RT / ST / RB / SB / RTB / STB GSe 1012 / 1012T GSe 1016 / 1016T
<b>GS/GSe 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S / RT / ST GS 3016 R / S / RT / ST GS 3024 R / S / RT / ST / RB / SB GS 3025 RB / SB / RTB / STB GS 3060 RL / RTL GSe 3012 / 3012T GSe 3016 / 3016T
<b>GS/GSe 4000 Series</b>	GS 4016 R / S / RT / ST GS 4024 RB / SB / RTB / STB

## Compatible Software Versions:

Central EonOne: 2.5.b.07


NAS: 73.1.1-52

## Important Notes:

For GS 1000 series, if you select the rolling upgrade option from any firmware version to the latest 1.33.A07 version, the upgrade process will be jammed. Please use reset instead.

If customer already has this issue, please reset the whole system (via serial console or





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in-band) for recovery.

(The upgrade process will finish, there is no need to re-upgrade).

This issue will be fixed in the next firmware release.

### **New features:**


1. Rsync target folder can have the same attribute as source folder.
2. Change the interface of specification.
3. Support Azure in SyncCloud feature.
4. Support VMS feature for surveillance (NVR).
5. SyncCloud library update for Microsoft Azure provider.
6. Service Manager Enhancement.
7. New user interface of Pool creating on EonOne.

### **Enhancements:**

None

### **Bugs fixes:**

1. Fixes: User name shows "Unknown" in MAC ACL using AFP protocol (ID: 1700333).
2. Fixes: Controller may fail when converged host board unexpectedly lose connection to the fiber target.
3. Fixes: NAS share folder may be lost controller A failure (ID: 201700161).
4. Fixes: Invalid iSCSI node ID may cause controller to fail (ID: 1700238).
5. Fixes: Controller may not correctly fail-over after one controller failed (ID: 1700206).
6. Fixes: Some events from redundant controller may be missing in the event logs (ID: 1700178).
7. Fixes: After performing Disaster Recovery, file system may not be automatically mounted correctly (ID: 1700200).
8. Fixes: NTP server IP address may be mixed up after multiple servers are configured (ID: 1700232).
9. Fixes: NFS permission settings do not allow CIDR network assignment (ID: 1700242).

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10. Fixes: SMTP server configuration does not allow complex domain name (ID: 1700234).
  11. Fixes: A default entry of read-only configuration cannot be modified in NFS permission settings (ID: 1700257).
  12. Fixes: WWN alias configuration may not be showing up correctly after duplicate entries are configured (ID: 1700283).
  13. Fixes: After enabled tiering, controllers may take a long time to boot up (ID: 1700227).
  14. Fixes: Controller may fail when receiving invalid iSCSI commands (ID: 1700305).
  15. Fixes: DNS is not correctly added in the system and may cause other entries to disappear (ID: 1700302).
  16. Fixes: Controller may fail when clients query the controller with invalid channel information (ID: 1700314).
  17. Fixes: Controller may fail when the I/O commands go through iSCSI channel.
  18. Fixes: Notification popup may pop-up notice for outdated firmware download (ID: 31159).
  19. Fixes: When using Remote Replication and testing the bandwidth, the log and result is different (ID: 30632).
  20. Fixes: Controller may fail when both controllers are not synchronized properly (ID: 24512).
  21. Fixes: Cannot login to share folder even if Active Directory is successfully joined (ID: 29604).
  22. Fixes: Central EonOne drive's capacity is not accurately displayed (ID: 29529).
  23. Fixes: Enhancements in the Cloud Gateway user interface (ID: 28942).
  24. Fixes: IQN alias cannot be deleted if there are multiple duplicated entries (ID: 28333).
  25. Fixes: Service Manager may send invalid SMTP failure event messages every day at 12:00 AM (ID: 32116).

**Known Issues:**

None.

# Firmware 1.32N10 Release Note

Updated: Oct 6, 2017

Applicable products:

<b>Binary File Name</b>	FA132N10_258_IFT_ESGS.BIN
<b>MD5 Checksum</b>	7F3670926D0994DE7357EAB424AD155B
<b>Applicable Models</b>	
<b>GS/GSe 1000 Series</b>	GS 1012 R / S / RT / ST GS 1016 R / S / RT / ST GS 1024 R / S / RT / ST / RB / SB / RTB / STB GSe 1012 / 1012T GSe 1016 / 1016T
<b>GS/GSe 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S GS 3016 R / S GS 3024 R / S / RB / SB GSe 3012 GSe 3016
<b>GS/GSe 4000 Series</b>	GS 4016 R / S GS 4024 RB / SB

## Compatible Software Versions:

Central EonOne: 2.4.n.04

NAS: 73.0.10-78

## Important Notes:

If customers unit has 132K05, then it can support rolling upgrade to the latest version, but if the unit has 1.32J05 or earlier, it should shutdown first and follow

"GS\_Update\_BIOS\_and\_Firmware\_V1.2" sop to upgrade to this firmware for GS

2000/3000/4000 series



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## **New features:**

None.

## **Enhancements:**

1. Add progress bar in File Explorer.
2. Add test button for SMTP and SNMP in the notification settings.
3. Service Manager feature has been improved.
4. EonOne install wizard has improved to configure the Notification and Service Manager.
5. Event messages for drives have improved. The location and slot number of the disk are listed in the event log.
6. EonOne UI has been improved.

## **Bugs fixes:**

1. Fixes: Controller may fail when using trunking (ID: 1700278).
2. Fixes: Drive capacity may not correctly display on the EonOne (ID: 1700279).
3. Fixes: The WWN alias may not correctly display on the WebGUI (ID: 1700283).
4. Fixes: Management port's gateway may disappear after rebooting the system (ID: 1700284).
5. Fixes: DNS may not show up after added in WebGUI (ID: 1700302).
6. Fixes: LAN port and file channel may be unable to use after firmware upgrade (ID: 1700227).

## **Known Issues:**

None.

# Firmware 1.32K05 Release Note

Updated: Sep 22, 2017

Applicable products:

<b>Binary File Name</b>	FA132K05_257_IFT_ESGS.BIN
<b>MD5 Checksum</b>	75FD719B1739A68EF7291AF1DAD0F026
<b>Applicable Models</b>	
<b>GS/GSe 1000 Series</b>	GS 1012 R / S / RT / ST GS 1016 R / S / RT / ST GS 1024 R / S / RT / ST / RB / SB / RTB / STB GSe 1012 / 1012T GSe 1016 / 1016T
<b>GS/GSe 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S GS 3016 R / S GS 3024 R / S / RB / SB GSe 3012 GSe 3016
<b>GS/GSe 4000 Series</b>	GS 4016 R / S GS 4024 RB / SB

## Compatible Software Versions:

Central EonOne: 2.4.j.06

NAS: 73.0.10-6

## Important Notes:

For GS 1000 series, if you select "Rolling Upgrade" to install to this firmware release, the controller may fail after the upgrade. Please use Reset instead.

For GS 2000/3000/4000 series, you have to follow "GS\_Update\_BIOS\_and\_Firmware\_V1.0" sop to upgrade to this firmware.



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**New features:**

None

**Enhancements:**

None

**Bugs fixes:**

1. Fixes: Controller may fail with heavy IO (ID: 1700258, 1700264).

**Known Issues:**

None

# Firmware 1.32J05 Release Note

Updated: Sep 12, 2017

Applicable products:

<b>Binary File Name</b>	FA132J05_257_IFT_ESGS.BIN
<b>MD5 Checksum</b>	AA8F95CC44C0BDA458DB37A3A21AD1C6
<b>Applicable Models</b>	
<b>GS/GSe 1000 Series</b>	GS 1012 R / S / RT / ST GS 1016 R / S / RT / ST GS 1024 R / S / RT / ST / RB / SB / RTB / STB GSe 1012 / 1012T GSe 1016 / 1016T
<b>GS/GSe 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S GS 3016 R / S GS 3024 R / S / RB / SB GSe 3012 GSe 3016
<b>GS/GSe 4000 Series</b>	GS 4016 R / S GS 4024 RB / SB

## Compatible Software Versions:

Central EonOne: 2.4.j.06

NAS: 73.0.10-6

## Important Notes:

For GS 1000 series, if you select "Rolling Upgrade" to install to this firmware release, the controller may fail after the upgrade.

Please shutdown the controllers before installing the firmware update, and then reset the controllers.



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## **New features:**

None

## **Enhancements:**

None

## **Bugs fixes:**

20. Fixes: Controller may fail when CPU receives illegal request.
21. Fixes: Buzzer may keep beeping when expanding drive (ID: 1700186).
22. Fixes: The enclosure view may display abnormally in EonOne (ID: 2017-00181).
23. Fixes: Sometimes EonOne keep pop up "device is busy " when perform any action (ID: 1700190).
24. Fixes: Sometimes the volume may unable to delete (ID: 1700176).
25. Fixes: Trunk may fail if there're multiple trunking exist already (ID: 1700202).
26. Fixes: The SNTP setting file may lost when exporting config by CLI (ID: 1700101).
27. Fixes: Sometimes it may unable to change from DHCP to static IP (ID: 1700204).
28. Fixes: Share folder may lost after primary controller shutdown (ID: 1700161).
29. Fixes: Sometimes it may unable to failover to secondary controller after primary controller shutdown (ID: 1700206).
30. Fixes: Routing page may not show options for block level channels (ID: 1700183)
31. Fixes: It may show incorrect drive slot number in CLI (ID: 1700194).
32. Fixes: Sometimes when running tier-migration with heavy I/O, the I/O may stuck (ID: 1700171).
33. Fixes: Controller may fail due to hardware issue in redundant connection (ID: 2017-00135).
34. Fixes: Controller may fail if technical support data has been exporting multipath times.
35. Fixes: Rolling upgrade may fail when the primary controller is in slot B.

## **Known Issues:**

1. For GS 1000/2000 series, controllers may encounter unexpected failures if you have JBOD expansion enclosures connected and any of the JBOD SAS cables is detached. Please avoid removing JBOD connection SAS cables when controllers are powered on.



# Firmware 1.32D05 Release Note

Updated: July 11, 2017

Applicable products:

<b>Binary File Name</b>	FA132D05_257_IPT_ESGS.BIN
<b>MD5 Checksum</b>	179D52CCE44617B39A24292055745E7E
<b>Applicable Models</b>	
<b>GS/GSe 1000 Series</b>	GS 1012 R / S / RT / ST GS 1016 R / S / RT / ST GS 1024 R / S / RT / ST / RB / SB / RTB / STB GSe 1012 / 1012T GSe 1016 / 1016T
<b>GS/GSe 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S GS 3016 R / S GS 3024 R / S / RB / SB GSe 3012 GSe 3016
<b>GS/GSe 4000 Series</b>	GS 4016 R / S GS 4024 RB / SB

## Compatible Software Versions:

Central EonOne: 2.4.h.04

NAS: 73.0.8-15

## Important Notes:

If customers unit has 1.32A09, then it can support rolling upgrade to the latest version, but if the unit has 1.31E14 or earlier, it should shutdown first and do full reboot.

## New features:

1. Add the Apsara Stack and Endpoint options for Aliyun in SyncCloud.



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## Enhancements:

1. User's credentials for cloud providers are hidden when using cloud gateway.
2. The data uploaded through the cloud gateway is protected by a checksum mechanism.
3. Upload device information when connected to the cloud via API.
4. The system will automatically enable continuous flush mode when the cloud cache mode is selected.
5. Cloud gateway performance is improved.
6. SyncCloud feature is improved.
7. EonOne UI has been improved to correct translation errors.

## Bugs fixes:

1. Fixes: The event log may not be displayed when using the TCP protocol.
2. Fixes: The performance may low when using Qlogic fiber 16G 4-port host board.
3. Fixes: The UI may display incorrectly when manually creating a new ticket through the Service Manager (ID: 1700157).
4. Fixes: The capacity usage of a file-level volume may be displayed incorrectly (ID: 1700137).
5. Fixes: Sometimes the share folder may fail to create (ID: 1700168).
6. Fixes: Share folder may disappear after primary controller fail (ID: 1700076).

## Known Issues:

None

# Firmware 1.32A.09 Release Note

Updated: June 20, 2017

Applicable products:

<b>Binary File Name</b>	FA132A09_255_IPT_ESGS.BIN
<b>MD5 Checksum</b>	2CEFAE08C3AA787D4A67C83BA25F18CD
<b>Applicable Models</b>	
<b>GS/GSe 1000 Series</b>	GS 1012 R / S / RT / ST GS 1016 R / S / RT / ST GS 1024 R / S / RT / ST / RB / SB / RTB / STB GSe 1012 / 1012T GSe 1016 / 1016T
<b>GS/GSe 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S GS 3016 R / S GS 3024 R / S / RB / SB GSe 3012 GSe 3016
<b>GS/GSe 4000 Series</b>	GS 4016 R / S GS 4024 RB / SB

## Compatible Software Versions:

Central EonOne: 2.4.d.05

NAS: 73.0.5-17

## Important Notes:

If customers unit has 131E14, then it can support rolling upgrade to the latest version, but if the unit has 1.21K10 or earlier, it should shutdown first and do full reboot.



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## **New features:**

1. Jumbo frame size display.
2. Supports EonNAS to EonStor GS/GSe ACL migration.

## **Enhancements:**

1. The default password for adding devices via Central EonOne is now the same as the login ID.
2. SyncCloud cache mode performance is improved.
3. The data uploaded through the cloud gateway is protected by a checksum mechanism.
4. Executions of snapshot rollback operations are moved to the background.
5. The connection status to cloud services is displayed for network troubleshooting during installation.
6. NAS security is improved.
7. File explorer features are improved.
8. A warning message is shown to inform the user if a wrong IP address is set for the NTP server.
9. Snapshot rollback performance is improved.
10. When accessing the root directory using the CIFS protocol, the shared folders will not be displayed to users who do not have access permission.

## **Bugs fixes:**

1. Fixes: Sometimes the CPU usage may be incorrectly displayed.
2. Fixes: Sometimes the performance when using 10G iSCSI channel on the converged host board may lower than using the in board channel.
3. Fixes: The EonOne may not be available during snapshot rollback.
4. Fixes: The domain administrator login ID and password are saved in the log file in clear text
5. Fixes: The lun mapping may create fail after setting the IQN (ID: 1700134).

## **Known Issues:**

# Firmware 1.31E.14 Release Note

Updated: May 16, 2017

Applicable products:

<b>Binary File Name</b>	FA131E14_254_IPT_ESGS.BIN
<b>MD5 Checksum</b>	C29886BC8A8210350CA8443A7B93C4FC
<b>Applicable Models</b>	
<b>GS/GSe 1000 Series</b>	GS 1012 R / S / RT / ST GS 1016 R / S / RT / ST GS 1024 R / S / RT / ST / RB / SB / RTB / STB GSe 1012 / 1012T GSe 1016 / 1016T
<b>GS/GSe 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S GS 3016 R / S GS 3024 R / S / RB / SB GSe 3012 GSe 3016
<b>GS/GSe 4000 Series</b>	GS 4016 R / S GS 4024 RB / SB

## Compatible Software Versions:

Central EonOne: 2.4.c.06


NAS: 73.0.2-23

## Important Notes:

Please shutdown the controller first before upgrading to this firmware version, and reset it after the upgrade.

## New features:


1. Antivirus feature.
2. SyncCloud gateway for Aliyun (Alibaba Cloud).

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3. Administrator privilege (including Super admin, Power admin, and General admin).
  4. Read-ahead mechanism for NAS.
  5. An option to turn off auto-collecting data function to avoid performance impact.
  6. Enclosure view.
  7. Notification for folder quota.
  8. Auto-tuning mechanism for performance enhancement.
  9. Added cache mode to SyncCloud feature.
  10. Added volume details on EonOne to show when the volume can be rolled back via disaster recovery mechanism.
  11. Added on/off switch for "Login Authentication with CHAP" when adding initiators.

### **Enhancements:**

1. Exporting NAS configuration function is now available on EonOne. A warning message informs users to read release note and back up the exported NAS configuration file before upgrading firmware.
2. Monitoring contents for devices, pools, and channels in SRM (Storage Resource Management) is integrated in the Monitor page.
3. EonOne now supports Win10-style list.
4. Infotrend Online Help now supports Traditional Chinese.
5. Users can re-submit log for a specified ticket and Internet auto-connection is now available in Service Manager.
6. Information-level logs are now available.
7. The name of administrator displayed in Main menu is now substituted by username.
8. On/Off behavior on EonOne is now consistent.
9. The default device name is now modified into "Model name\_Service ID" for convenient centralized management.
10. Users do not need to compress the license application file when downloading it from EonOne.
11. A pop-up message informs users about possible ramifications when downgrading firmware.
12. LDAP Server now supports SMB/CIFS protocol.
13. The hint message of naming rule may appear when adding IQN in initiator setting.
14. Cloud capacity usage is added in Settings > Backup & Restore > Cloud provider.
15. Data transmission monitoring for Cloud Tiering feature is added.

### **Bugs fixes:**

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1. Fixes: Sometimes the read value may show different on performance monitor and IO meter.
  2. Fixes: Sometimes users may unable to move subfolders that contain hidden files or large files.
  3. Fixes: Sometimes users may not be able to enable the file system when creating a volume after setting a LUN with less than 5 SCSI IDs per host.
  4. Fixes: It may fail to enable file system when creating volume after setting LUN per host SCSI ID to less than 5.
  5. Fixes: Sometimes the socket buffer full may cause controller fail (ID: 1700062).
  6. Fixes: I/O may still go to controller A when pool with tiering and assigned to controller B (1700091).
  7. Fixes: The warning dialog may not pop up when refreshing Central EonOne.
  8. Fixes: the warning dialog may not pop up when using volume snapshot.
  9. Fixes: an error may occur when synchronizing with the root folder on Aliyun (Alibaba cloud) via SyncCloud.
  10. Fixes: The LDAP server is not compatible with Windows authentication.
  11. Fixes: The permission of the sub folder may not the same as the parent folder which create in GS file explorer (ID: 1700093).

**Known Issues:**

# Firmware 1.21K.10 Release Note

Updated: April 20, 2017

Applicable products:

<b>Binary File Name</b>	FA121K10_252_IPT_ESGS.BIN
<b>MD5 Checksum</b>	3FEFDAC04C1254B857ABE64BF614F054
<b>Applicable Models</b>	
<b>GS/GSe 1000 Series</b>	GS 1012 R / S / RT / ST GS 1016 R / S / RT / ST GS 1024 R / S / RT / ST / RB / SB / RTB / STB GSe 1012 / 1012T GSe 1016 / 1016T
<b>GS/GSe 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S GS 3016 R / S GS 3024 R / S / RB / SB GSe 3012 GSe 3016
<b>GS/GSe 4000 Series</b>	GS 4016 R / S GS 4024 RB / SB

## Compatible Software Versions:

Central EonOne: 2.3.h.04

NAS: 8.2.6-11

## New features:

None

## Enhancements:

1. UI enhance on login page of the device added by Central EonOne.
2. UI enhance on the encryption of the cloud disaster recovery.





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### **Important Notes:**

None

### **Bugs fixes:**

1. Fixes: The pool may disappear after change controller assignment (ID: 1700048).
2. Fixes: SyncCloud setting may be deleted when sync with Dropbox folder named in Korean.
3. Fixes: Sometimes system may hang with pools lager than 10TB when booting up.

### **Known Issues:**

None

# Firmware 1.21H.01 Release Note

Updated: March 16, 2017

Applicable products:

<b>Binary File Name</b>	FA121H01_251_IFT_ESGS.BIN
<b>MD5 Checksum</b>	FD944BFF8B7F6336E5C66C7A6DF1090F
<b>Applicable Models</b>	
<b>GS/GSe 1000 Series</b>	GS 1012 R / S / RT / ST GS 1016 R / S / RT / ST GS 1024 R / S / RT / ST / RB / SB / RTB / STB GSe 1012 / 1012T GSe 1016 / 1016T
<b>GS/GSe 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S GS 3016 R / S GS 3024 R / S / RB / SB GSe 3012 GSe 3016
<b>GS/GSe 4000 Series</b>	GS 4016 R / S GS 4024 RB / SB

## Compatible Software Versions:

Central EonOne: 2.3.f.01

NAS: 8.2.4-1

## New features:

None



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## **Enhancements:**

1. UI will display the rules/restrictions of the account and password.
2. iSCSI interface options are added when the user is creating host LUN mapping.
3. An InfiniBand host board can be installed from slot 1 or slot 2 of the controller.
4. Exporting system log time from EonOne is enhanced.

## **Important Notes:**

None

## **Bugs fixes:**

1. Fixes: The World Wide Name (WWN) format changed after firmware upgrade.
2. Fixes: Optimize the volume creation and lun mapping in workflow.
3. Fixes: Remove the duplication option in pool creation workflow.

## **Known Issues:**

None

# Firmware 1.21E.12 Release Note v1.0

Updated: March 3, 2017

Applicable products:

<b>Binary File Name</b>	FA121E12_251_IPT_ESGS.BIN
<b>MD5 Checksum</b>	36256EDEA974D0ADCAF92069E229CDA0
<b>Applicable Models</b>	
<b>GS/GSe 1000 Series</b>	GS 1012 R / S / RT / ST GS 1016 R / S / RT / ST GS 1024 R / S / RT / ST / RB / SB / RTB / STB GSe 1012 / 1012T GSe 1016 / 1016T
<b>GS/GSe 2000 Series</b>	GS 2012 R / S / RT / ST GS 2016 R / S / RT / ST GS 2024 R / S / RT / ST / RB / SB / RTB / STB GSe 2012 / 2012T GSe 2016 / 2016T
<b>GS/GSe 3000 Series</b>	GS 3012 R / S GS 3016 R / S GS 3024 R / S / RB / SB GSe 3012 GSe 3016
<b>GS/GSe 4000 Series</b>	GS 4016 R / S GS 4024 RB / SB

## Compatible Software Versions:

Central EonOne: 2.3.c.09

NAS: 5.2.2-23

## New features:

None



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## Enhancements:

1. Added a notification to remind users about firewall or antivirus on the host PC may affect the result of adding storage devices in Central EonOne.
2. The used capacity information of a file-level volume is enhanced (based on shared-folder usage) on Storage and Monitor setting pages.
3. A system reset is not required after the trial license for cloud gateway feature is installed.
4. Added Korean language user interface.
5. File transfer performance in sequential read is enhanced.


## Important Notes:

1. Duplicated pool/volume names are not allowed and the share path will be displayed in the structure //Pool\_Name/Volume\_Name/SharedFolder\_Name/. **Before upgrading firmware, it is important to make sure there are no duplicated pool/volume names in the system.** For further assistance, please contact support.
2. It is necessary to open the specific ports (58630, 58632, and 58641) of Firewall before you add a storage device on Central EonOne.
3. It is necessary to reset the controller after users switch the type of host channel between iSCSI and NAS.
4. To use the cloud backup feature, it is necessary to keep at least one block-level channel and Internet access available.
5. Rsync will update source task path automatically after upgrading to new firmware. If customer upgrades target GS firmware to same version, it will need to modify target path manually.

## Bugs fixes:

1. Fixes: Compatibility issue when setting up cloud backup with Internet Explorer 11 browser.
2. Fixes: Snapshot name is not displayed in the event log after snapshots have been created.
3. Fixes: An error may occur when mounting a pair in remote replication.
4. Fixes: Channel MAC addresses may be changed after firmware upgrade.
5. Fixes: Syslog server may be disabled after a system reset.
6. Fixes: Controller may fail when un-mapping and re-sync remote pair.

## Known Issues:


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1. With FC 16Gx4 host board, clustering Hyper-V may fail to work on failover feature properly.
  2. System log takes some time to export. This will be enhanced in a future firmware version.
  3. File transfer performance on random I/O will be enhanced in a future firmware version.
  4. With converged host board in iSCSI-10G mode, system performance would be dropped if jumbo frame is disabled.

# Firmware 1.21B.18 Release Note v1.0

Updated: January 24, 2017

Applicable products:

Models	Binary File Name
<b>GS/GSe 1000 Series</b>	
GS 1012 R/S GS 1016 R/S GS 1024 R/S GS 1024 RB/SB GS 1012 RT/ST GS 1016 RT/ST GS 1024 RT/ST GS 1024 RTB/STB GSe 1012 GSe 1016 GSe 1012T GSe 1016T	
<b>GS/GSe 2000 Series</b>	
GS 2012 S/R GS 2016 S/R GS 2024 S/R GS 2024 RB/SB GS 2012 RT/ST GS 2016 RT/ST GS 2024 RTB/STB GSe 2012 GSe 2016 GSe 2012T GSe 2016T	FA121B18_251_IFT_ESGS.BIN
<b>GS/GSe 3000 Series</b>	
GS 3012R/S GS 3016R/S GS 3024R/S GS 3024RB/SB GSe 3012 GSe 3016	
<b>GS/GSe 4000 Series</b>	



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GS 4016 R/S GS 4024 RB/SB	
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## Compatible Software Versions:

Central EonOne: 2.3.b.17

NAS: 5.2.2-23


## New features:

1. Support Qlogic FC16G host board.
2. Support Mellanox 40G host board.
3. Support Infiniband 56G host board.
4. Support new monitor target of SRM.
5. Symmetric active-active feature is now available in storage pools.
6. WORM (Write-Once, Read Many) for File-level Volumes.
7. VPN server with L2TP/IPSec.
8. Proxy server.
9. Syslog server.
10. File explorer (administrator use only).
11. SyncCloud for syncing files with cloud providers (administrator use only, Dropbox/Google Cloud/Amazon S3 supported).
12. IP auto block.
13. UPS via SNMP protocol.
14. Share Folder encryption.
15. Folder quota.
16. Service Manager for reporting system critical events to Infortrend.
17. Rolling firmware upgrade.
18. Online help with a brand new user interface.
19. Threshold alert function.
20. iSNS configuration.
21. NIS configuration.
22. Settings for host-side, drive-site, disk array, controller, and configuration backup/restore.

## Enhancements

1. The configuration procedure of Initial Setup Wizard is redesigned.
2. Database backup/restore in LDAP server is supported.
3. Backup once option for folder rsync is supported.




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4. Validation for incorrect DNS server address.
  5. Snapshot creation for multiple volumes is supported.
  6. Auto search function is available when adding devices in Central EonOne.
  7. Volume size information is added in user quota settings page.
  8. Monitoring contents for devices, pools, and channels in SRM (Storage Resource Management) is available now.
  9. System boot-up time is 40% faster (300 seconds in average for GS 1000 series).
  10. Tiering performance is enhanced.
  11. The stability of file transfer performance is enhanced.
  12. File transfer performance is enhanced.

### **Notes:**

1. Remove the letter "E" of "GS 3016RE" which display on UI for all GS models
2. 8GB memory is required to install one InfiniBand 56Gb/s host board on one controller and 16GB is required for two InfiniBand 56Gb/s host boards on one controller.
3. It is necessary to install InfiniBand host board from slot 1 of the controller.
4. It is necessary to reset the system for effectiveness after a license is installed.
5. Options of backing up and restoring configuration to/from local disks are removed. Backing up configuration as a file to PC remains available.
6. It is necessary to open the specific ports (58630, 58632, and 58641) of Windows Firewall before you add a storage device on Central EonOne.
7. It is necessary to reset the controller after users switch the type of host channel between iSCSI and NAS.
8. To use Cloud backup feature, it is necessary to keep at least one block-level channel and Internet access available.
9. After volumes are recovered from cloud (Disaster Recovery without full restoration), it is necessary to mount the volumes manually.

### **Bugs fixes:**

1. Fixes: The "SSD Wear Life remaining" item may be missing in Central EonOne.
2. Fixes: Performance monitor may show abnormal value.
3. Fixes: It may be unable to connect Aliyun (ID: 1600276).
4. Fixes: The content in Maintenance may still shows in English even in Chinese UI.
5. Fixes: GS FW upgrade may sometimes fail and show "invalid format".
6. Fixes: Disaster Recovery may not work correctly.
7. Fixes: Central EonOne may sometimes fail to create pool with In-band connection.
8. Fixes: SRM IOPS may show abnormal value.
9. Fixes: Controller B may not get WWPN after multiple controller resets.

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10. Fixes: System fault LED may not light when disconnecting fiber cable.
  11. Fixes: Target pool may sometimes disappear after creating remote sync.
  12. Fixes: Multiple schedule snapshot may sometimes fail.
  13. Fixes: Static IP address may not keep after controller resets.
  14. Fixes: Controller cache dirty LED constant light after shutting down device.
  15. Fixes: Adding receiver/trap server mail in service manager may fail.
  16. Fixes: DB flush agent may not be found.
  17. Fixes: Sometimes export coredump may fail.
  18. Fixes: Notification settings may not match at same version of Central EonOne and EonOne.
  19. Fixes: It may show error message when adding too much user at LDAP Server.
  20. Fixes: Service ID may show incorrect information after upgrading firmware.
  21. Fixes: Sometimes it may stock when creating file system volume.
  22. Fixes: Schedule.txt may not export when exporting system information.
  23. Fixes: Did not block user using the same Volume name.
  24. Fixes: Controller may fail after deleting local sync mirror pair.

### **Known Issues:**

1. With FC 16G (Qlogic chip) connection, clustering Hyper-V failed to work on failover feature properly.

# Firmware 1.11R.06 Release Note v1.0

Updated: December 1, 2016

Applicable products:

Model	Binary File Name
GS 3012R/S	FA111R06_248_IFT_ESGS.BIN
GS 3016R/S	
GS 3024RB/SB	
GS 1012R/S	
GS 1016R/S	
GS 1024R/S	
GS 1024RB/SB	
GS 1012 RT/ST	
GS 1016 RT/ST	
GS 1024 RT/ST	
GS 1024 RTB/STB	
GSe 3012	
GSe 3016	
GSe 1012	
GSe 1016	
GSe 1012T	
GSe 1016T	

## Compatible Software Versions:

Central EonOne: 2.2.c.27


NAS: 5.0.5-86

## New features:

1. NVRAM import/export.
2. Volume quota for AD domain users.

## Notes:

1. It is necessary to open the specific ports (58630, 58632, and 58641) of Windows Firewall before you add a storage device on Central EonOne.
2. It is necessary to reset controller after users switch the type of host channel between iSCSI and NAS.
3. To use Cloud backup feature, it is necessary to keep at least one block-level channel and Internet access available.
4. After volumes recovered from cloud (Disaster Recovery without fully restore), it is necessary to



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mount the volumes manually.

### **Bugs fixes:**

1. Fixes: an issue where Central EonOne & SANWatch cannot run on the same server (Mac & Linux)
2. Fixes: an issue where the system fault light on LED panel is not on after JBOD is disconnected
3. Fixes: an issue where user quota fails to support domain users.
4. Fixes: an issue where the information of FC 16G host board might be displayed incorrectly.
5. Fixes: an issued where user interface might become unresponsive during firmware upgrade in initial setup.
6. Fixes: an issue where firmware upgrade for GS/GSe 1000 series may fail.
7. Fixes: NFS share service does not have a Nobody option (ID: 2016-00258).
8. Fixes: No error messages are shown when deleting Pool.
9. Fixes: Sometimes it may be fail to shutdown the controller successfully.
10. Fixes: Sometimes it may be fail to join the AD domain.
11. Fixes: Cloud connection allows user to cancel the encryption after setup.
12. Fixes: Setting a channel as static IP in the same network with the AD server, after reboot, the AD settings may disappear.
13. Fixes: Unable to set snapshot schedule in a cloud-enabled Volume.
14. Fixes: Controller may fail after configuring cloud Disaster Recovery.
15. Fixes: Unable to configure file-level channel to IPv6.
16. Fixes: Cannot edit folder being rescued via Disaster Recovery.
17. Fixes: Failed to create cloud-enabled Pool using Workflow with Aliyun.
18. Fixes: Failure to keep customized routing table configuration.

### **Known Issues:**

N/A

# Firmware 1.11O.14 Release Note v1.0

Updated: November 22, 2016

Applicable products:

Model	Binary File Name
GS 3012R/S	FA111O14_248_IFT_ESGS.BIN
GS 3016R/S	
GS 3024RB/SB	
GS 1012R/S	
GS 1016R/S	
GS 1024R/S	
GS 1024RB/SB	
GS 1012 RT/ST	
GS 1016 RT/ST	
GS 1024 RT/ST	
GS 1024 RTB/STB	
GSe 3012	
GSe 3016	
GSe 1012	
GSe 1016	
GSe 1012T	
GSe 1016T	

## Compatible Software Versions:

Central EonOne: 2.2.c.23

NAS: 5.0.5-76

## New features:

1. Support Storage tiering.
2. Support Jumbo frames.
3. Support Storage finder utility for locating GS/GSe device (available on Infortrend support site).
4. Increase the maximum number of Volumes per pool from 64 to 96.

## Notes:

1. When creating Logical Drive, progress status will show percentage of completion.



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## Bugs fixes:

1. Enhanced: Browser compatibility with Internet Explorer 11.
2. Fixes: Central EonOne & SANWatch cannot run on the same server (Windows only)
3. Fixes: Bandwidth test in Remote Replication cannot work properly.
4. Fixes: Fail to assign static IPv6 address.
5. Fixes: Fail to show SSD cache hit rate.
6. Fixes: Fail to export Coredump file when coredump folder size is nearly full.
7. Fixes: Fail to delete a user group in LDAP server.
8. Fixes: Target volume cannot display correctly when creating a scheduled snapshot task.
9. Fixes: Cloud Bucket information cannot display properly (ID: 1600246).
10. Fixes: "Failed to lock device" error message is shown when resetting units with Cloud-enable Pools.
11. Fixes: Fail to delete some volumes when multiple select in volume menu.
12. Fixes: False alarm of IP conflict error message is shown when configuring IP address.
13. Fixes: Controller may unexpectedly fail due to network packet handling issue (ID: 1600185).

## Known Issues:

N/A

# Firmware 1.11K.18 Release Note v1.0

Updated: October 31, 2016

Applicable products:

Model	Binary File Name
GS 3012R/S	FA111K18_248_IFT_ESGS.BIN
GS 3016R/S	
GS 3024RB/SB	
GS 1012R/S	
GS 1016R/S	
GS 1024R/S	
GS 1024RB/SB	
GS 1012 RT/ST	
GS 1016 RT/ST	
GS 1024 RT/ST	
GS 1024 RTB/STB	
GSe 3012	
GSe 3016	
GSe 1012	
GSe 1016	
GSe 1012T	
GSe 1016T	

## Compatible Software Versions:

EonOne: 2.2.c.17

NAS: 5.0.5-61

## New features:


N/A

## Notes:

N/A

## Bugs fixes:

1. Fixes: System may show wrong disk information of 6TB drive in JBOD (ID: 1600148).
2. Fixes: Controller may fail when JBOD is disconnected online (ID: 1600192).
3. Fixes: EonOne Overview doesn't update to "Healthy" after PSU return to normal (ID: 1600196).
4. Fixes: PSU and drive failure event is not reported in time (ID: 1600197).
5. Fixes: Rsync settings are not saved after enabling (ID: 1600198).

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6. Fixes: Performance monitor in the console default shows 1MB/s (ID: 1600200).
  7. Fixes: Share folder is unable to mount, if controller password is set (ID: 1600202).
  8. Fixes: UI operating response is slow (ID: 1600212).
  9. Fixes: EonOne password restored to default after controller reboot (ID: 1600213).
  10. Fixes: System cannot join AD domain server (ID: 1600213).
  11. Fixes: Gateway setting of management port is changed after reboot (ID: 1600213).
  12. Fixes: Delayed event display on EonOne.
  13. Fixes: Available quota space mismatch from Windows Explorer.
  14. Fixes: Abnormal CPU usage on EonOne.
  15. Fixes: Sometimes it may be unable to fetch AD domain controller.
  16. Fixes: File sharing IP may be unable to access.
  17. Fixes: EonOne cannot set default gateway IP.
  18. Fixes: When management port and data channel set in the same subnet, file I/O is failed.
  19. Fixes: Logical Drive is failed but EonOne still shows as on-line.
  20. Fixes: Full restore function is successful even if no snapshot image is selected.
  21. Fixes: Converge host board cannot be set to 16G FC mode.
  22. Fixes: Firmware upgrade may fail.
  23. Fixes: Tier ratio setting function isn't available, but can be selected in EonOne.
  24. Fixes: EonOne may be stuck in creating a file-level volume.
  25. Fixes: Failed to get DHCP IP after removing trunk settings.
  26. Fixes: License check is not enforced on tiering.
  27. Fixes: Unable to create Aliyun cloud storage link.
  28. Fixes: Unable to create file-level volume in workflow.
  29. Fixes: Cannot save IPv6 IP settings.
  30. Fixes: SFTP services may not be enabled.
  31. Fixes: Logical Drive may display garbled strings.
  32. Fixes: UI response is too long when deleting many users.
  33. Fixes: Failed to restart CIFS service error message is shown at boot up.
  34. Fixes: Cannot connect to OpenStack SSL cloud storage.
  35. Fixes: Cannot create Remote Replication pair.
  36. Fixes: Scheduled rsync is not executed at scheduled time.
  37. Fixes: Cannot change baud-rate by terminal.
  38. Fixes: Management port did not show 10.10.1.1 after restore defaults.
  39. Fixes: Email notification settings are not saved after configuration.
  40. Fixes: Logical Drive and Drive list is not refreshed after deleting Pool.
  41. Fixes: Some UI is not responsive to click on Internet Explorer (IE) 11.
  42. Fixes: SSD is not correctly added to cache pool after configuration.

### **Known Issues:**





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N/A



# Firmware 1.11G.17 Release Note v1.0

Updated: September 22, 2016

Applicable products:

Model	Binary File Name
GS 3012R/S	FA111G17_248_IFT_ESGS.BIN
GS 3016R/S	
GS 3024RB/SB	
GS 1012R/S	
GS 1016R/S	
GS 1024R/S	
GS 1024RB/SB	
GSe 3012	
GSe 3016	
GSe 1012	
GSe 1016	

## Compatible Software Versions:

EonOne: 2.2.b.20

NAS: 5.0.5-39

## New features:

N/A

## Notes:

Initial release for GS/GSe 1000/3000

## Bugs fixes:

N/A

## Known Issues:

N/A