

PAC Storage PS Release Notes

Applicable Models:

PS/PSe 1000 Gen2 series

PS 1012S2/R2

PS 1016S2/R2

PS 1024S2/R2/S2B/R2B

PSe 10122

PSe 10162

PS/PSe/ PSc/ PSa 2000 Series

PS 2012R/S/RT/ST

PS 2016R/S/RT/ST

PS 2024R/S/RT/ST

PS 2024RB/SB/RTB/STB

PSe 2012/2012T

PSe 2016/2016T

PSc 2012R/S/RT/ST

PSc 2016R/S/RT/ST

PSc 2024R/S/RT/ST

PSc 2024RB/SB/RTB/STB

PSa 2024S/2024R/2024ST/2024RT

PS/PSe/ PSc/GSi 3000 series

PS/PSe/ PSc / PSa 3000Gen2 series

PS 3012R/S/RT/ST

PS 3016R/S/RT/ST

PS 3024R/S/RT/ST

PS 3024RB/SB

PS 3025RB/SB/RTB/STB

PS 3060RL/GL/RTL/GTL

PS 3025RA/3025SA

PS 3025RTA/3025STA

PS 3025RAF/3025SAF



PS 3025RTAF/3025STAF PS 3025RA1/3025RTA1/3025RAF1/3025RTAF1

PSe 3012/3012T

PSe 3016/3016T

PSc 3012R/S/RT/ST

PSc 3016R/S/RT/ST

PSc 3024R/S/RT/ST

PSc 3024RB/SB

PSc 3025RB/SB/RTB/STB

PSc 3060RL/GL/RTL/GTL

PSa 3025S/3025R/3025ST/3025RT

PSa 3025R2/S2

PS 3012R2/S2

PS 3016R2/S2

PS 3024R2/S2

PS 3025R2B/S2B

PS 3060R2L/G2L

PSe 30162/30242

PSe 3060G2L/3060R2L

PSi 3016G

PS/PSe/ PSc 4000 series

PS/PSe/ PSc 4000Gen2 series

PS 4016R/S/RT/ST

PS 4024RB/SB/RTB/STB

PS 4012R2/S2

PS 4016R2/S2

PS 4024R2/S2

PS 4025R2B/S2B

PS 4060R2L/G2L

PSa 4025R2/S2

PSe 40162/40242

PSe 4060G2L/GS4060R2L



PS/PSc /PSa /PSi 5000 series

PS/PSc 5100R
PS/PSc 5200R
PSa 5100
PSa 5200
PSi 5016G/5016G1

PSi 5016GE/5016GL/5016GT/5016GU

All Firmware Versions:

Version	Release Date	Note
1.67G03	05/21/2024	
1.67A14	04/29/2024	
1.66T01	04/17/2024	
1.66M01	02/06/2024	
1.66G08	01/04/2024	
1.65T18	12/08/2023	
1.65G04	09/13/2023	
1.65B19	08/22/2023	For PS 1000 Gen1, please use FW version 165F19.
1.64V20	06/12/2023	
1.64K25	02/21/2023	
1.64G18	01/09/2023	
1.64A21	11/08/2022	Initial release for below models: PS/PSe 2U12/3U16/4U24, PS3000 G3, PS4000 G3, PS/PSe 4U60, PS3060T, PS4060
1.62G18	07/22/2022	
1.62A30	07/11/2022	
1.62A23	05/31/2022	
1.61Q05	04/28/2022	
1.61K37	03/10/2022	
1.61K20	01/26/2022	
1.61K10	01/26/2022	
1.61H14	01/12/2022	



1.61E21	12/03/2021	
1.52J22	05/31/2022	
1.52J07	04/28/2022	
1.52H02	05/04/2022	
1.52F06	01/26/2022	
1.52E44	12/24/2021	
1.52A77	06/26/2021	
1.52A26	06/26/2021	
1.49C14	12/15/2020	



Firmware 1.67G.03 Release Note

Updated: May. 21st, 2024

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included.

Binary File Name	FA167G03_317_IFT_ESGS.BIN
MD5 Checksum	B03E2457612282F9DDF413351A6DD59B

Compatible Software Versions

Central EonOne: 2.6.p.206

Witness: 1.0.0.8 PS CLI: 2.3.a.48

EonView for Mac: 1.0.26-0320 EonView for Windows: 1.0.26-0320

Important Note

- When you update from an earlier version to v.1.61H14 or a later version, rolling update is NOT supported on a unit with a 128G memory or above (per controller). Please schedule a downtime, shut down the system to stop IO, and then update the firmware.
- 2. If you took snapshots on firmware 162G18, please delete all snapshots before upgrading.
- 3. This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.
- 4. Users with block-level deduplication volumes will be blocked from downgrading to previous versions that do not support block deduplication.
- 5. The controller with new 3808 HB/MB downgrade to the firware (Gen3: not before 164V01/Others: not before 166G01).
- 6. Prevent cross-load FW when InnoDisk M.2 present and downgrade to firmware older than EC4.13.1.



New features

None

Enhancements

None

Fixed Issues

- Resolved the issue with email notification delivery when no username/password is used on specific SMTP servers. (ID:2400053)
- 2. Resolved an issue where the VMware VAAI copy command could result in controller failure. (ID: 2400082)
- Resolved an issue where an internal HA process created an excessive number of threads, causing incorrect WebGUI information and potential NAS failure. (ID: 2400067/2400031)

Known Issues

 When setting up remote replication, remote replication pair can't be created since this firmware version is not compatible with the version earlier or after. (ID: 2200180)

- The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
- 2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
- 3. Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.67A.14 Release Note

Updated: Apr. 29th, 2024

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included.

Binary File Name	FA167A14_315_IFT_ESGS.BIN
MD5 Checksum	B640F83B5E554840018D9E89D17E851C

Compatible Software Versions

Central EonOne: 2.6.p.18

Witness: 1.0.0.8 PS CLI: 2.3.a.48

EonView for Mac: 1.0.26-0320 EonView for Windows: 1.0.26-0320

Important Note

- When you update from an earlier version to v.1.61H14 or a later version, rolling update is NOT supported on a unit with a 128G memory or above (per controller). Please schedule a downtime, shut down the system to stop IO, and then update the firmware.
- 2. If you took snapshots on firmware 162G18, please delete all snapshots before upgrading.
- 3. This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.
- 4. Users with block-level deduplication volumes will be blocked from downgrading to previous versions that do not support block deduplication.

New features

- 1. Support new SAS controller chip.
- 4TB U.2 SSD as cache available on G3 models.(PS 3040/3060/3090/4040/4060/4090)
- 3. New 4-port 32GB Fibre Channel host board.



- 4. Ability to disable NetBIOS within the CIFS protocol.
- 5. Support file level read SSD cache in HA function.

Enhancements

- 1. Enhance file SSD cache capability and fixed bugs.(ID:230297)
- 2. Enhanced the file SSD cache function. (ID:2300297)
- Enhanced NTP protocol processing on the storage side to support NTP servers with multiple hyphen symbols in their names.(ID: 2400001)
- 4. Remote replication supports object storage.(ID: 117380)
- 5. Enhanced AD functionality to support AD accounts with nonstandard symbols in their name\password.(ID: 117359)
- 6. Modify the description of the total cache size on the system information page.(ID: 116960)

Fixed Issues

- 1. Resolved an issue where changing the "Performance optimization" setting resulted in controllers having different cache sizes, causing one of them to be turned off.(ID:2300181)
- 2. Fixed a controller hang-up issue occurring when cache data was not synchronized under certain conditions (ID: 2300216).
- 3. Resolved a TCP connection problem that was causing SMTP notification to fail (ID: 2300270).
- 4. Fixed the issue where the data access log didn't record entries when the share folder contained specific characters.(ID:113660)
- 5. Addressed an iSCSI communication issue that could lead to controller hang-ups. (ID: 2300306)
- 6. Resolved the issue preventing the selection of the Korean language in Rsync target settings.(ID: 113872)
- 7. Resolved the user interface becoming stuck at 99% when editing a folder. (ID: 2300315)



- 8. Addressed intermittent link up and down issues with the file channel.(ID: 114077)
- 9. Fixed drive scan initiated before firmware initialization caused controller failure. (ID: 2300311)
- 10. Addressed the need for horizontal bar usage in the EonOne screen to access the system menu in the upper-right corner. (ID: 2400009)
- 11. Added an option in CIFS (SMB) settings to disable or enable NetBIOS/nmb support.(ID: 2300319)
- 12. Fixed an issue where file server backup for CIFS account login could fail due to a specific account format.(ID:114816)
- 13. Resolved inconsistencies in backup events, where some showed failure despite normal backup data. (ID: 2400002)
- 14. Fixed the SMB service was affected by the expiration of the trial license key. (ID: 2300323)
- 15. Addressed the absence of replication progress status display in EonOne.(ID: 115383)
- 16. Addressed potential risks associated with scans by the Nessus tool on port 22 and 161.(ID: 115882)
- 17. Resolved export scale-out configuration would stall at 99% completion.(ID: 116571)
- 18. Fixed an issue with the HA service that could lead to the file system being unmounted, resulting in the loss of the ability to edit NAS-related settings.(ID: 2400028)
- 19. Removed incorrect configuration information from the detailed configuration list view. (ID: 116676)
- 20. Fixed a warning message pop-up when delivering emails using SMTP notification with an IP address in the SMTP server configuration (ID: 2400017)



- 21. Resolved the 'Idap3search NTLM bind failed' issue within the 'getAllTrustName' process during AD join. (ID: 2400005)
- 22. Resolved the firmware issue that caused controller failure during media scan or copy & replace operation.(ID: 2400004)
- 23. Resolved Active Directory (AD) server failed to join if the admin user's name contains special characters.(ID: 2400030)
- 24. Addressed the issue where Active Directory (AD) connection would occasionally fail due to NTLM bind failure.(ID: 117718)
- 25. Resolved an issue where one of the firmware modules would overwrite the incoming iSCSI buffer, leading to a controller failure.(ID: 117998)
- 26. Resolved XFS snapshot cannot be unmounted successfully.(ID: 2400003)
- Fixed incorrect controller failure event reported on single controller model (S model).(ID: 2400035)
- 28. Fixed an unexpected API causing race condition to result in controller failure. (ID: 2400050)
- 29. Fixed NFS services can not start automatically with FQDN set in the NFS config.(ID: 2300316)
- 30. Fixed an issue of an improper internal resource allocation resulting in a dead lock and subsequent controller failure.(ID: 2400038)
- 31. Fixed an issue with 25Gb host board's channels not being able to show the correct MAC address.(ID: 2400069)

Known Issues

 When setting up remote replication, remote replication pair can't be created since this firmware version is not compatible with the version earlier or after. (ID: 2200180)



- 1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
- 2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
- 3. Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.66T.01 Release Note

Updated: Apr. 17th, 2024

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included.

Binary File Name	FA166T01_313_IFT_ESGS.BIN
MD5 Checksum	6F402B41F0ED7B883E8A48C3E12962AD

Compatible Software Versions

Central EonOne: 2.6.o.600

Witness: 1.0.0.8 PS CLI: 2.3.a.43

EonView for Mac: 1.0.24-1213 EonView for Windows: 1.0.24-1213

Important Note

- When you update from an earlier version to v.1.61H14 or a later version, rolling update is NOT supported on a unit with a 128G memory or above (per controller). Please schedule a downtime, shut down the system to stop IO, and then update the firmware.
- 2. If you took snapshots on firmware 162G18, please delete all snapshots before upgrading.
- 3. This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.
- 4. Users with block-level deduplication volumes will be blocked from downgrading to previous versions that do not support block deduplication.

New features

None

Enhancements

None



Fixed Issues

- 1. CPU usage consistently over 90% until next reboot.(ID:2300322)
- 2. Cannot unmounting a XFS snapshot volume successfully.(ID:2300014)
- 3. Controller will get stuck when using RDMA function.(ID:2300044)
- 4. Improper FW interaction causing inability to create a Volume in LD with a stripe size of 64K.(ID:2300060)
- 5. Fixed shutdown failed because of unmounting volume unsuccessfully. (ID:2300062)
- 6. Cannot join AD due to some special characters in password. (ID:2300063,2300030)
- 7. An issue causing the WebGUI to hang due to extensive log generation in the NAS part of the system.(ID:2300064)

Known Issues

 When setting up remote replication, remote replication pair can't be created since this firmware version is not compatible with the version earlier or after. (ID: 2200180)

- 1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
- 2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
- 3. Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.66M.01 Release Note

Updated: Feb. 6th, 2024

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included.

Binary File Name	FA166M01_313_IFT_ESGS.BIN
MD5 Checksum	70492999BCFDDC32951104F0E34AC251

Compatible Software Versions

Central EonOne: 2.6.o.27

Witness: 1.0.0.8 PS CLI: 2.3.a.43

EonView for Mac: 1.0.24-1213 EonView for Windows: 1.0.24-1213

Important Note

- When you update from an earlier version to v.1.61H14 or a later version, rolling update is NOT supported on a unit with a 128G memory or above (per controller). Please schedule a downtime, shut down the system to stop IO, and then update the firmware.
- 2. If you took snapshots on firmware 162G18, please delete all snapshots before upgrading.
- 3. This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.
- 4. Users with block-level deduplication volumes will be blocked from downgrading to previous versions that do not support block deduplication.

New features

None

Enhancements

Enhancement for drive high latency disk detection mechanism.
 (ID:116768/116359)



When setting up remote replication, remote replication pair can't be created

Fixed Issues

None

Known Issues

 When setting up remote replication, remote replication pair can't be created since this firmware version is not compatible with the version earlier or after. (ID: 2200180)

- 1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
- 2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
- 3. Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.66G.08 Release Note

Updated: Jan. 4th, 2024

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included.

Binary File Name	FA166G08_313_IFT_ESGS.BIN
MD5 Checksum	770AF6793D658CE19B5341F0C2FD2481

Compatible Software Versions

Central EonOne: 2.6.o.27

Witness: 1.0.0.8 PS CLI: 2.3.a.43

EonView for Mac: 1.0.24-1213 EonView for Windows: 1.0.24-1213

Important Note

- When you update from an earlier version to v.1.61H14 or a later version, rolling update is NOT supported on a unit with a 128G memory or above (per controller). Please schedule a downtime, shut down the system to stop IO, and then update the firmware.
- 2. If you took snapshots on firmware 162G18, please delete all snapshots before upgrading.
- 3. This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.
- 4. Users with block-level deduplication volumes will be blocked from downgrading to previous versions that do not support block deduplication.

New features

- 1. Support new 2-port 25Gb host board
- 2. Support Backblaze Cloud
- 3. Support dmesg log displaying



Enhancements

- Drive latency message displaying
- 2. XFS defragment speed
- Enhanced EonCloud event for reporting abnormal network connection status.(ID:105441)
- 4. Enhance drive I/O latency message.(ID:2300097)
- 5. Enhance join AD authentication mechanism. (ID: 2300145)
- Enhanced the process of updating domain users\groups, fixing the issue of domain users\groups not being able to load due to a timeout on the AD server side. (ID: 2300232)
- Enchanced the syncing mechanism between two controllers while processing some of the SCSI commands with Windows Offloaded Data Transfer (ODX) function enabled. (ID:113902)

Fixed Issues

- Fixed an improper UPS error handling on the PS side, resulting in controller failure. (ID:109269)
- 2. Fixed the issue where permissions cannot be set due to the simultaneous calculation of file number and size.(ID:109155)
- Modify warning that at least install more than 16G memory while enable PC files backup function.(ID:110290)
- 4. Improper bind service mechanism on management port lead to controller failed. (ID:110670)
- Fixed that after restore default, user could continue using existing data.
 (ID:2100305)
- 6. Fixed controller I/O stuck in heavy loading application. (ID:2200264)
- 7. Fixed an internal error which could cause a Volume expansion process to be stuck. (ID:2300042)
- 8. Improper iSCSI I/O timeout mechanism lead to remote replication process stuck. (ID:2300059)



- Using the 10G ISCSI host board to create file system mounting time takes too long.(ID:2300074)
- 10. Improper I/O queue mechanism lead to performance slow.(ID:2300093)
- 11. Fixed channel type setting incorrect with inserted controller. (ID:2300100)
- 12. Adjusted several internal mechanisms to not cause an infinite loop and, therefore, a controller failure. (ID:2300117)
- 13. Improper internal resource allocating mechanism cause internal resource insufficient, and controller failed.(ID:2300119)
- 14. Fixed an improper time-out handler, which tried to remove a previously aborted IO request from the queue, causing controller failure.(ID:2300130)
- 15. Improper unmap size handling on Micron 5300 SATA SSD lead to drive can't be detected.(ID:2300166)
- 16. Fixed controller hang up in firmware cross load stage.(ID:2300168)
- 17. Improper LDAP user UID matching mechanism cause setting user quota of LDAP user failed. (ID: 2300171)
- 18. FW error causes WebGUI failed to access.(ID:2300184)
- 19. Improved the TCP connection processing between the CPU cores, which could lead to a controller failure in some niche situations. (ID:2300187)
- 20. Fixed an issue causing one of the controllers to fail after configuring a trunk. (ID: 2300188)
- 21. Controller file volume I/O speed will down to zero while deleting huge size of files on SSD pool. (ID: 2300200)
- 22. Improper snapshot reserve space monitoring mechanism will cause volume to expand false event. (ID: 2300203)
- 23. Improper drive abort command handling lead to drive error. (ID:2300226)
- 24. Login PS via CLI tool or Central EonOne with password over 39 characters will cause controller failed. (ID: 2300229)
- 25. Fixed an incorrect unmap command trigger, which could increase latency on further operations. (ID:2300244)



- 26. Fixed EonOne will display "Storage expansion for the volume has continued after a power outage" when pool usage reaches full. (ID: 2300253)
- 27. Fixed an improper processing of a TCP connection causing a performance drop. (ID: 2300212)
- 28. Fixed that NAS process got problem cause UI shows abnormal. (ID:2300202)
- 29. While logging in the AD server, DNS entry will include PS management port and cause client cannot access to the share folder via PS hostname.

 (ID:2300213)
- 30. Fixed that SSD write cache got problem after controller failover/failback.(ID:2300094)
- 31. Fixed that NAS may fail if use NFS IO in Linux.(ID:2300249)
- 32. Fixed an improper checking mechanism of Central EonOne management software, which caused memory usage to pile up and led to controller failure.(ID: 2300301)
- 33. Fixed CTRL failed while LD is rebuilding. (ID: 2300278)
- Improper cloud database restore mechanism will cause cloud connected folder disconnect after PS restart. (ID: 2300247)
- 35. Improved the error handling mechanism during the Pool deletion. (ID: 2300282)
- 36. Improper SSD cache mount mechanism after disk roaming lead to metadata corrupt.(ID: 2300240)
- 37. Improper cloud database restore mechanism lead to cloud service unable to use.(ID: 2300247)
- 38. Fixed AD join failure when the client has one or more domain controllers without the DNS Host Name attribute set; the PS couldn't receive DNS names from specific DCs in the AD server.(ID:112246)
- 39. Fixed MFA function can not login.(ID: 2300291)
- 40. Copy process hang when copy files from one share folder to another share folder on same PS unit. (ID: 2300289)
- 41. Fxied that nfs bug caused NAS kernal panic. (ID: 2300220)



- 42. Fixed an improper interaction between processing cores while using iSCSI interface, causing one of controller failed. (ID: 2300280)
- 43. Fixed an improper interaction between CPU cores while synchronizing an updated system configuration (NVRAM), leading to a controller failure. (ID: 2300281)
- 44. After changing the channel IP, the ISER session will fail to login probably. (ID: 2300233)
- 45. Fixed an issue where Central EonOne would not show the list of existing pools while using Russian OS, with block level deduplication enabled. (ID: 2300242)
- 46. Fixed a possible controller failure scenario in case of I2C device reponse timeout to a user or booting request (e.g. slot present, fan active, etc.)(ID: 2300295)
- 47. Improper SSD unmap mechanism when file deletion lead to I/O performance slow.(ID: 2300143)
- 48. Fixed that NAS may fail because specific NAS process uses too much memory. (ID:2300202)
- 49. Fixed RAID+JBOD environment, JBOD suddenly power off and cause data pool offline on startup.(ID: 2300261)
- 50. Fixed the controller's inability to boot up when creating more than 30 LDs. (ID: 2300299)
- 51. Fixed an improper IO abort handling, which could cause one of the controllers to fail.(ID:113720)
- 52. Fixed the resource leak which could be caused by a high IO loading on a BTRFS volume. (ID: 2300298)
- 53. Fixed that backup function cannot enable normally if primary controller is on slot B. (ID:113918)
- 54. System shut down process got problem cause the system cannot reboot. (ID:2300317)
- 55. Fixed rolling firmware upgrade will stuck in the middle of the process. (ID:2300302)



Known Issues

 When setting up remote replication, remote replication pair can't be created since this firmware version is not compatible with the version earlier or after. (ID: 2200180)

- 1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
- 2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
- 3. Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.65T.18 Release Note

Updated: Dec. 8th, 2023

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included.

Binary File Name	FA165T18_311_IFT_ESGS.BIN
MD5 Checksum	FFC3C435F28ECDD8BA349348DEA26BE8

Compatible Software Versions

Central EonOne: 2.6.n.1515

Witness: 1.0.0.8 PS CLI: 2.3.a.39

EonView for Mac: 1.0.23-1123 EonView for Windows: 1.0.23-1123

Important Note

- When you update from an earlier version to v.1.61H14 or a later version, rolling update is NOT supported on a unit with a 128G memory or above (per controller). Please schedule a downtime, shut down the system to stop IO, and then update the firmware.
- 2. If you took snapshots on firmware 162G18, please delete all snapshots before upgrading.
- 3. This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.
- 4. Users with block-level deduplication volumes will be blocked from downgrading to previous versions that do not support block deduplication.

New features

None



Enhancements

1. Enhance backup app function.

Fixed Issues

- 1. Fixed that NAS may fail if use NFS IO in Linux. (ID:2300249)
- 2. Fixed that NAS may fail because specific NAS process uses too much memory.(ID:2300202)
- Fixed an improper checking mechanism of Central EonOne management software, which caused memory usage to pile up and led to controller failure.(ID: 2300301)
- Fixed the improper interaction on the firmware side causing the PSe Pro system not being able to boot up with SAS host boards installed.
 (ID: 2300256)

Known Issues

 When setting up remote replication, remote replication pair can't be created since this firmware version is not compatible with the version earlier or after. (ID: 2200180)

- 1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
- 2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
- 3. Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.65G.04 Release Note

Updated: Sep. 13th, 2023

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included.

Binary File Name	FA165G04_311_IFT_ESGS.BIN
MD5 Checksum	056523D854F19B5C1979B656FB62CAC9

Compatible Software Versions

Central EonOne: 2.6.n.1001

Witness: 1.0.0.8 PS CLI: 2.3.a.39

EonView for Mac: 1.0.21-0801 EonView for Windows: 1.0.21-0801

Important Note

- When you update from an earlier version to v.1.61H14 or a later version, rolling update is NOT supported on a unit with a 128G memory or above (per controller). Please schedule a downtime, shut down the system to stop IO, and then update the firmware.
- 2. If you took snapshots on firmware 162G18, please delete all snapshots before upgrading.
- 3. This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.
- 4. Users with block-level deduplication volumes will be blocked from downgrading to previous versions that do not support block deduplication.

New features

None

Enhancements

None



Fixed Issues

None

Known Issues

 When setting up remote replication, remote replication pair can't be created since this firmware version is not compatible with the version earlier or after. (ID: 2200180)

- 1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
- 2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
- 3. Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.65B.19 Release Note

Updated: Aug. 22nd, 2023

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included.

Binary File Name	FA165B19_310_IFT_ESGS.BIN
MD5 Checksum	9CEC7EC0B82C6B76D9BF631755D42D72

Compatible Software Versions

Central EonOne: 2.6.n.214

Witness: 1.0.0.8 PS CLI: 2.3.a.37

EonView for Mac: 1.0.21-0801 EonView for Windows: 1.0.21-0801

Important Note

- When you update from an earlier version to v.1.61H14 or a later version, rolling update is NOT supported on a unit with a 128G memory or above (per controller). Please schedule a downtime, shut down the system to stop IO, and then update the firmware.
- 2. If you took snapshots on firmware 162G18, please delete all snapshots before upgrading.
- 3. This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.

New features

None

Enhancements

None



Fixed Issues

- Fixed that still see HA related event after system restore default.(ID:2200181)
- 2. Log4j vulnerability. (ID:2200182)
- 3. Fixed that cannot install 3rd party app. (ID:108683)
- Fixed EonOne will report "Folder/Teste_Backup/vai_dar_certo/ _bbackup_AppData_exists" while enabling PC backup function and network configuration can not connect to Internet. (ID:108683)
- 5. Fixed an issue where the network driver handled the packet missing\recovery incorrectly, causing performance issues during write operations. (ID:109822)
- 6. Creating file-level snapshot schedules via CLI, show No required parameter. (ID:2300152)
- 7. Fixed a controller hang up caused by improper iSCSI packets handling. (ID:2300154)
- Fixed the handling of IO queues while working with VMWare, which could lead to some latency issues and IO aborts. (ID:2300160)
- 9. Fixed routing configuration can not be set. (ID:2300173)
- Fixed if a user adds the permission "deny all for everyone" it will result in the inability to add any other permissions on particular folder. (ID:2300175)
- 11. Fixed that the file with simplified Chinese character cannot backup normally for PC files backup function. (ID:2300177)
- 12. Fixed that backup history no show running backup schedule if enable advance acl for volume. (ID:2300179)
- 13. Fixed a resource leak during some scheduled events causing a controller to fail. (ID:2300186)
- 14. Fixed a firmware infinite loop issue and causing controller hangup. (ID:2300191)



Known Issues

 When setting up remote replication, remote replication pair can't be created since this firmware version is not compatible with the version earlier or after. (ID: 2200180)

- 1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
- 2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
- 3. Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.64V.20 Release Note

Updated: Jun. 12th, 2023

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included.

Binary File Name	FA164V20_309_IFT_ESGS.BIN
MD5 Checksum	FEB16D0EDC2E26AD0F81B069B73F29D6

Compatible Software Versions

Central EonOne: 2.6.n.25

Witness: 1.0.0.8 PS CLI: 2.3.a.34

EonView for Mac: 1.0.15-0428 EonView for Windows: 1.0.15-0428

Important Note

- When you update from an earlier version to v.1.61H14 or a later version, rolling update is NOT supported on a unit with a 128G memory or above (per c ontroller). Please schedule a downtime, shut down the system to stop IO, and then update the firmware.
- 2. If you took snapshots on firmware 162G18, please delete all snapshots before upgrading.
- 3. This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.

New features

- 1. Support Traffic control(QoS)
- 2. Support Backup Function
- 3. Support Application Center



- 4. Support Block Volume Deduplication
- 5. Support 90-bay JBOD

Enhancements

1. Enhance the AD join process. (ID:101671)

Fixed Issues

- 1. Still show HA event after system restore default. (ID: 2200181)
- 2. Log4j vulnerability. (ID: 2200182)
- 3. Sometimes mapped snapshot might not be recognized.(ID: 2200194)
- Resource insufficient on iSCSI channel might cause iSCSI connection abort.(ID: 2200195)
- 5. Improper configuration parameters fetching mechanism on NAS background when primary controller failed.(ID: 2200201)
- 6. Event reports high packet loss during async replication. (ID: 2200203)
- 7. async pair becomes invalid status in some cases. (ID: 2200204)
- 8. Specific SSD model show not compatible on GUI. (ID: 2200226)
- 9. Controller failure caused by abnormal command. (ID: 2200227)
- 10. Inconsistent snapshot data might cause system can't boot up.(ID:2200254)
- 11. After changing 'LUN per Host SCSI ID' setting, system will failed to export NVRAM to Disk. (ID:2300002)
- 12. Vulnerability fixed while key in management port IP in browser. (ID:2300022)
- 13. Can not set color tag on Mac. (ID:2300023)
- 14. Folders and files name with garbled will cause folders information scanning hang on PS file explorer. (ID: 2300028)
- NAS fail causing NVRAM configuration reset to default setting. (ID: 2300012/2300035)
- 16. Scheduling events in WebGUI causing controller failure. (ID: 2300057)
- 17. Improper internal command handling cause volume mirror remote replication process stuck. (ID: 2300059)
- 18. Internal resource not initialized might cause system can't boot up. (ID: 2300065)



- 19. Volume can not expand properly in some condition. (ID: 2300070)
- 20. EonOne stuck at 10% when exporting log.(ID:104335)
- 21. A bug in process of generating command causing WWN not being able to join the initiator group.(ID:104267)
- 22. Configuration setting failed with read-ahead or streaming settings.(ID:104157)
- 23. Inability to export the diagnostic log.(ID:103491)
- 24. NAS temp folder not being cleared after reboot causing losing SMB connection. (ID: 2300019)
- 25. Unable to connect to SMTP server (ID: 2300072)
- 26. A bug causing improper resource allocation during the time when a lot of VAAI commands are being issued, resulting in the Controller failure. (ID:2300108/106380)
- 27. Controller fail when using RAID1 and change maximum drive response timeout value.(ID: 2300126)
- 28. If the AD server does not have the NTP service enabled and another NTP server is used, AD join will fail. (ID: 2300031)
- 29. Updating domain users may fail when daily update schedule is set. (ID:2300067)
- 30. Volume deactivated before completely shut down that causing metadata inconsistency.(ID:106102)
- 31. GUI bandwidth wrong displayed.(ID:2300050)
- 32. Share folder mount on wrong controller and causing configuring share folder fail.(ID:2300051)
- 33. EonOne can not accept "-" in FQDN and reports invalid parameter. (ID:2300053)
- 34. Modify folder replication task event.(ID:2300033)
- 35. PSe Pro unit can not power off automatically by shutdown button. (ID:2300148)



- 36. Fixed a bug, causing the system not to use the resource allocation function properly which can lead to the controller failure. (ID: 2300109)
- 37. Fixed a bug causing deletion process of a volume getting stuck at 100%. (ID:2300114)

Known Issues

 When setting up remote replication, remote replication pair can't be created since this firmware version is not compatible with the version earlier or after. (ID: 2200180)

- 1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
- 2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
- 3. Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.64K.25 Release Note

Updated: Feb. 21st, 2023

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included.

Binary File Name	FA164K25_305_IFT_ESGS.BIN
MD5 Checksum	03D577978CCDAE37068DE37EAD1C50FD

Compatible Software Versions:

Central EonOne_2_6_L_18 Witness_1.0.0.8 CLI ESGS 2.3.a.28

Important Note:

- When you update from an earlier version to v.1.61H14 or a later version, rolling update is NOT supported on a unit with a 128G memory or above (per controller).
 Please schedule a downtime, shut down the system to stop IO, and then update the firmware.
- 2. This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.
- 3. If you took snapshots on firmware 162G18, please delete all snapshots before upgrading.

New features:

- 1. Support File-level HA service.
- 2. Support CRPS model.(Except GS4024R2B)
- Support 64 bytes username and password on SMTP notification function.(ID:2200225)
- 4. Support using Google Workspace mail as a SMTP server.(ID:2200252)

Enhancements:

None



Fixed Issues:

- 1. Modify event while disconnect one of internal lan port. (ID: 2200223)
- 2. The qualified SSD show incompatible on GUI. (ID: 2200232)
- 3. Channel type does not restore to replacement controller, and causing LAN data port nonfunctional.(ID:2200039)
- 4. IP and mac address of data channel disappear after replace controller.(ID:2200039)
- 5. NIS users quantity show different between UI and file explorer.(ID:2200261)
- 6. Creating snapshot scheduler and causing GUI hangs.(ID:101854)
- 7. Adjust threshold of using NAS swap memory message.(ID: 2200248)
- 8. NAS fail causing NVRAM configuration reset to default setting. (ID: 2300012)
- NAS temp folder not being cleared after reboot causing losing SMB connection. (ID: 2300019)
- 10. One of a GUI program occupies too much memory than intended and cause NAS fail. (ID:2300013)

Known Issues

 When setting up remote replication, remote replication pair can't be created since this firmware version is not compatible with the version earlier or after. (ID: 2200180)

- The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
- 2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
- 3. Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.64G.18 Release Note

Updated: Jan. 9th, 2023

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included.

Binary File Name	FA164G18_305_IFT_ESGS.BIN
MD5 Checksum	0064C8C29AE7E249E2CD2DBB3F75F87C

Compatible Software Versions:

Central EonOne_2_6_k_11 Witness_1.0.0.8 CLI ESGS 2.3.a.27

Important Note:

- When you update from an earlier version to v.1.61H14 or a later version, rolling update is NOT supported on a unit with a 128G memory or above (per controller).
 Please schedule a downtime, shut down the system to stop IO, and then update the firmware.
- 2. This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.
- 3. If you took snapshots on firmware 162G18, please delete all snapshots before upgrading.

New features:

1. Support WORM on Btrfs volumes.

Enhancements:

- 1. SSD cache flush mechanism enhancement.
- 2. Enhance the volume name display format on performance monitor.(ID: 2200215)

Fixed Issues:

 Improper failover mechanism between RAID and NAS side cause XFS metadata corrupt. (ID: 2200172)



- 2. Sometimes mapped snapshot might not be recognized.(ID: 2200194)
- 3. Resource insufficient on iSCSI channel might cause iSCSI connection abort.(ID: 2200195)
- 4. Can not operate LCD menu content if controller password enables.(ID: 2200197)
- 5. Event reports high packet loss during async replication. (ID: 2200203)
- 6. async pair becomes invalid status in some cases. (ID: 2200204)
- 7. HA check mechanism might unmount volume and shows the error message "Invalid cluster folder path".(ID: 99730)
- 8. Controller failure caused by abnormal command. (ID: 2200227)
- 9. Use thin provision volume will cause pool available size incorrect.(ID: 2200171)
- 10. EonOne scheduler did not run setting schedule on the specified time.(ID: 2200193)
- 11. Central EonOne snapshot scheduler displays password mismatch and can not run. (ID: 2200196)
- 12. Improper configuration parameters fetching mechanism on NAS background when primary controller failed.(ID: 2200201)
- 13. Enhance event after channel disconnect to let user know in detail.(ID: 2200223)
- 14. Use project server cause SSD cache create fail.(ID: 2200216)
- 15. Improper NAS handling mechanism might cause fail to create a SSD cache pool.(ID: 2200115)

Known Issues

 When setting up remote replication, remote replication pair can't be created since this firmware version is not compatible with the version earlier or after. (ID: 2200180)

- The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
- 2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
- 3. Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.64A.21 Release Note

Updated: Nov. 8th, 2022

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included.

Binary File Name	FA164A21_302_IFT_ESGS.BIN
MD5 Checksum	10027ADAB3D417F2C7B900D001B4103C

Compatible Software Versions:

Central EonOne_2_6_i_20 Witness_1.0.0.8 CLI ESGS 2.3.a.23

Important Note:

- When you update from an earlier version to v.1.61H14 or a later version, rolling update is NOT supported on a unit with a 128G memory or above (per controller).
 Please schedule a downtime, shut down the system to stop IO, and then update the firmware.
- 2. This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.
- 3. If you took snapshots on firmware 162G18, please delete all snapshots before upgrading.

New features:

- 1. Support HA Service.
- 2. Support PS icelake model (PS 4024UR PS 3024URT)
- 3. Support PS/PSe G3 model

PS/PSe 2U12/3U16/4U24 (PS3000 G3, PS4000 G3)

PS/PSe 4U60 (PS3060T, PS4060)

4. Support PSe U.2 model

PSe 3024UT/4024U(Ice Lake)

PSe 2024U/3024U(Hewitt Lake)



- 5. Support "Update virus pattern" function from WebGUI.(ID:2200149)
- 6. Support CIFS/SMB opportunistic lock (oplock) option.
- 7. Support RDMA with 100Gb host board and 25Gb on-board channel.

Enhancements:

- 1. Optimize boot up output information in RS-232 terminal.(ID: 2200117)
- 2. The White list function will not block PS outbound connection.(ID: 2200058)
- 3. Can show AD disconnection on specific controller.(ID: 2200119)
- 4. GUI will Prompt space too small and skip for pool creation while available size is less than 110GB.(ID: 2200100)

Fixed Issues:

- 1. It may encounter IO error/hang issue when using Micron SATA SSD with bridge board. (ID: 2200062)
- 2. UI will show message to let user know whether login model support for Madmin or not.(ID: 2200043)
- 3. Improper failover mechanism will cause management port IP display as 'standby' after failover.(ID: 2200136)
- 4. OpenSSL 1.0.2 vulnerabilities.(ID: 2200090)
- 5. Trunk setting may fail to delete.(ID: 2200148)
- Improper failover mechanism will cause incorrect controller slot on EonOne login event.(ID: 2200130)
- 7. Sometimes it is unable to create a new logical column when using Micron SATA SSD. (ID: 2200110/220062)
- 8. Cannot save docket config if storage has ever set up docker before.(ID: 2200023)
- Improper volume expand flow might cause file level volume can't be expanded properly.(ID: 2200106/2200103)
- 10. SMB config lost cause smb share cannot set up normally.(ID: 2200125)
- 11. UI will show message to let user know RAID volume cannot assign for root folder. (ID: 2200133)
- 12. Java load class abnormal might cause EonOne can't be access. (ID: 2200137)
- Central EonOne performance monitor doesn't show any performance data.(ID: 2200234)
- 14. Volume expand fail in Tier-ed pool.(ID: 2200068)



- 15. CLI cannot run by double clicking runcli bat.(ID: 2200135)
- 16. Fail to access EonOne when disabling "You can turn off the connection between the device and the local management interface to boost its data access".
 (ID:220142)
- 17. Volume may shutdown when too many expanding has been executed.(ID:2200093)
- 18. When upgrade FW from 1.4.X or 15.X to 161 version, apply smb share or AD configuration or SSD cache may fail. (ID: 2200095/2200115)
- 19. Cannot set user quota normally.(ID:2200125)
- 20. Multiple user list window will show if clicks multiple times.(ID:2200177)
- 21. Abnormal afp function cause M.2 run out of space and unable to access to NAS system.(ID:2200176)
- 22. Improper volume delete process will cause new created partition can't be initialized on host.(ID:2200162)
- 23. Fibre channel LUN lost on 16/32Gb host board after long time using. (ID:2200186)
- 24. Qualified FW still shows unqualify in UI.(ID:2200163)
- 25. Controller may shutdown due to FW got infinite loop. (ID:2200173)
- 26. Fixed a bug that would cause metadata corruption.(ID:2200167)
- 27. Hide SSD qualify line after customized FW.(ID:2200174)
- 28. Improper NAS process handling mechanism might cause NAS lose its configuration.(ID:2200183)
- 29. Sometime it is unable to mount the volume when taking a snapshot and roll back a disk by using a snapshot.(ID:2200194)
- 30. EonOne will not show any Infortrend/EonOne/PS wording after plv customization.(ID: 2200153)
- 31. Improper SSD File cache enabling process might cause cache pool can't be created and process stuck.(ID:2200192)
- 32. User can not set folder/files with Mac Finder color tag.(ID:2200187)
- 33. Improper parameter change on drive side lead to IO stuck and system hang.(ID:2200184)



Known Issues

 When setting up remote replication, remote replication pair can't be created since this firmware version is not compatible with the version earlier or after. (ID: 2200180)

- 1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
- 2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
- 3. Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.62G.18 Release Note

Updated: July. 22nd, 2022

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included.

Binary File Name	FA162G18_299_IFT_ESGS.BIN
MD5 Checksum	4CF23DC7EEA422B8E682269219B30DBA

Compatible Software Versions:

Central EonOne_2_6_g_17

Important Note:

- When you update from an earlier version to v.1.61H14 or a later version, rolling update is NOT supported on a unit with a 128G memory or above (per controller).
 Please schedule a downtime, shut down the system to stop IO, and then update the firmware.
- This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.

New features:

- 1. Support Immutable Object Storage.
- 2. Support Multi-Factor Authentication.
- 3. Support Multi-factor authentication for EonOne login. (ID:2100290)

Enhancements:

None

Fixed Issues:

- 1. Inconsistent iSCSI data channel cause partition lose connection. (ID: 2100301)
- 2. The system experience large amount of IO abort may cause controller failure. (ID: 2200067)
- 3. Fixes media scan will not with configuring all disks as spare and scheduling scan for all eligible drives. (ID: 2200076)



- 4. Skip scanning controller internal drive. (ID: 2200077)
- 5. Fibre host sometimes hanged up the controllers with improper login/logout command. (ID: 2100205)
- 6. Fibre channel ports incorrectly reports itself as initiator + target. (ID: 2200092)
- 7. When upgrade FW from 1.4.X or 15.X to 161 version, apply smb share or AD configuration or SSD cache may fail. (ID: 2200095)
- 8. It may unable to give permission to the new created folder. (ID: 2200109)
- 9. PS can't do Clam AV antivirus pattern manually upgrade. (ID: 2200114)
- 10. When synchronizing too many user and group profile from AD server might cause GUI cannot access. (ID:2100307)
- 11. When IP is set in trunking channel, VLAN IP can not be set with same IP address. (ID:2200116)
- 12. User cannot set quota of sharefolder normally. (ID:2200126)
- 13. Improper IO handling mechanism on FC driver might cause low performance when using StorNext MDC.(ID:2200056)

Known Issues:

 When setting up remote replication, remote replication pair can't be created since this firmware version is not compatible with the version earlier or after. (ID: 2200180)

- 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.
- Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.62A.30 Release Note

Updated: July. 11th, 2022

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included.

Binary File Name	FA162A30_299_IFT_ESGS.BIN
MD5 Checksum	92C9A485539D50386B1342CD3C5DC31B

Compatible Software Versions:

Central EonOne _2_6_f_34

- Non-PS 3000/4000 Gen.2 series do NOT support rolling upgrade from FW 1.48 and older. Please stop IO and shutdown controller before upgrading firmware to v.1.49C14.
- 2. Do NOT support rolling upgrade from older firmware when there is 128G RAM inserted. Please stop IO and shutdown controller before upgrading firmware.
- 3. Please make sure to use Central EonOne v.2.5.r.27 or older for this update, otherwise you might see "Failed to update firmware due to incompatibility with the system." message. Please shutdown the controller if it is not shutdown already and initiate the update again.
- This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.
- 5. This firmware(1.62) DOES NOT support directly upgrade from ver.148 series or older version. PLEASE upgrade to 1.49 before performing firmware upgrade to 1.62.
- 6. If the firmware installed on the unit is older than ver. 1.33A.07, please upgrade to 1.49 and restored to default, then upgrade to ver. 1.62 series.



	STORAGE
New features:	
None	

None

Fixed Issues:

Enhancements:

1. Sometimes faulty events would be reported after upgrading firmware to ver.162A23/162B23 when there is AD server connected. (ID: 94385)

Known Issues:

None

- 1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
- 2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
- 3. Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.62A.23 Release Note

Updated: May. 31st, 2022

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included.

Binary File Name	FA162A23_299_IFT_ESGS.BIN
MD5 Checksum	F044DBA1398CFC885F87F06255AAD539

Compatible Software Versions:

Central EonOne _2_6_f_34

- Non-PS 3000/4000 Gen.2 series do NOT support rolling upgrade from FW 1.48 and older. Please stop IO and shutdown controller before upgrading firmware to v.1.49C14.
- 2. Do NOT support rolling upgrade from older firmware when there is 128G RAM inserted. Please stop IO and shutdown controller before upgrading firmware.
- 3. Please make sure to use Central EonOne v.2.5.r.27 or older for this update, otherwise you might see "Failed to update firmware due to incompatibility with the system." message. Please shutdown the controller if it is not shutdown already and initiate the update again.
- This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.
- 5. This firmware(1.62) DOES NOT support directly upgrade from ver.148 series or older version. PLEASE upgrade to 1.49 before performing firmware upgrade to 1.62.
- If the firmware installed on the unit is older than ver. 1.33A.07, please upgrade to
 1.49 and restored to default, then upgrade to ver. 1.62 series.



New features:

- 1. Support cluster folder snapshot for Btrfs volume.
- 2. Support cluster configuration backup and restore.
- 3. Support offline deduplication for Btrfs volume.
- 4. Support Inline compression for Btrfs volume.
- 5. Support configuration drive latency level for drive latency warning function via CLI command.(ID:2100167)
- 6. Shows redundant controller memory size.(ID:2100042)
- 7. User could use project server in embedded EonOne for specific models. (ID:2100161)

Enhancements:

- 1. Scale out UI enhancement.
- 2. Enhance migration performance.
- 3. Enhance cluster folder settings function.
- 4. Enhance U.2 over provisioning function for SSD DWPD.
- 5. DockerGUI Enhancement.(ID: 89893)
- 6. Enhance log function. (ID:2200021)
- 7. Enhances warning when pausing upload to cloud. (ID: 2000217)
- 8. Enhance unit of quota will display more properly according to the input value. (ID: 2100090)

Fixed Issues:

- 1. Incorrect JBOD SAS connection status on EonOne. (ID: 2100143)
- 2. Improper license might cause incorrect expiration date. (ID: 2100219)
- 3. Rsync task will start over when there is file vanish on source share. (ID: 2100269)
- 4. When there is no modification on permission of share folder and apply on EonOne, share folder permission will not re-apply. (ID: 2100323)
- 5. Cannot set NFS permission on scale-out folder. (ID:2100324)
- 6. Controller may shut down by FW handling bug. (ID:2200001/2200002/2200060)
- 7. Faulty slot number may be reported when there is Drive SMART error state that has been detected. (ID:2100057)
- 8. Abnormal fibre login behavior might cause system hang. (ID:2100303)



- Improper memory allocation mechanism might cause controller failed. (ID:2100317)
- 10. Fixed a bug which cause controller to shut down when running IO before volume not fully initialized. (ID: 2100247)
- 11. Added support for disabling all HTTP related ports. (ID: 2100168)
- 12. The size of non-cloud volume will be limited by cloud volume maximum size on standard license and cause volume can't be expanded.(ID:2200009)
- 13. Cannot connect via iSCSI after firmware update. (ID: 2100236)
- 14. Network risk of PS file explorer. (ID: 2200035)
- 15. Failed to delete snapshot. (ID:2200040)
- 16. Update from FW 149 to 152 cannot boot successfully. (ID: 2100193)
- 17. Excel file cannot save successfully in shared folder. (ID:2100263)
- 18. Fix an issue that too many consecutive unsuccessful login attempts may cause system hang. (ID:2200015)
- 19. The particular user permission does not apply to the folder & subfolder, and shows the error message "INVALID SID couldn't convert SID S-0-0 to UID". (ID:2200020)
- 20. When there is file vanish occur on source folder during Rsync backup, there won't be a backup complete event on event log.(ID:2200026)
- System fault LED may be turned on automatically without any warning/error message.(ID:2200019)
- 22. Fail to rebuild the logical drive when it was been created before the firmware ver. 152 series. (ID:2200051)
- 23. May not apply read & write permissions to the folder which has been migrated. (ID:2200050)
- 24. Network risk of SSH weak key exchange algorithm and weak ciphers. (ID: 2200037)
- 25. Failed to expand logical drive when there is a larger sizes that to be expanded. (ID:2100292)
- 26. Apache log4j vulnerability. (ID:2100311)
- 27. A UDP requests that are sent by an unused IP-address. (ID:2200028)
- 28. HA checking mechanism might cause NAS can't boot up.(ID:2200033)
- 29. Wrong file attribute might cause the files not be able to be saved by word/excel. (ID:2200049)
- 30. Improper flush mechanism might cause data corruption when controller failed. (ID:2200057)



31. The backup has been completed log is displayed even though the backup was not completed. (ID:2200061)

Known Issues:

None

- 1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
- 2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
- 3. Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.61Q.05 Release Note

Updated: Apr. 28th, 2022

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included.

Binary File Name	FA161Q05_299_IFT_ESGS.BIN
MD5 Checksum	04ADC9024E195D4A75B4690545626D6B

Compatible Software Versions:

Central EonOne _2_6_e_200

- Non-PS 3000/4000 Gen.2 series do NOT support rolling upgrade from FW 1.48 and older. Please stop IO and shutdown controller before upgrading firmware to v.1.49C14.
- 2. Do NOT support rolling upgrade from older firmware when there is 128G RAM inserted. Please stop IO and shutdown controller before upgrading firmware.
- 3. Please make sure to use Central EonOne v.2.5.r.27 or older for this update, otherwise you might see "Failed to update firmware due to incompatibility with the system." message. Please shutdown the controller if it is not shutdown already and initiate the update again.
- This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.
- 5. This firmware (1.61) DOES NOT support directly upgrade from ver.148 series or older version. PLEASE upgrade to 1.49 before performing firmware upgrade to 1.61.
- 6. If the firmware installed on the unit is older than ver. 1.33A.07, please upgrade to 1.49 and restored to default, then upgrade to ver. 1.61 series.



New features:

1. Support ResourceSpace App in Docker with license required.

Enhancements:

None

Fixed Issues:

1. Fail to rebuild the logical drive when it was been created before the firmware ver. 152 series. (ID:2200051)

Known Issues:

None

- 1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
- 2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
- 3. Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.61K.37 Release Note

Updated: Mar. 10th, 2022

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included.

Binary File Name	FA161K37_299_IFT_ESGS.BIN
MD5 Checksum	849F7B28331DBEF64CBCB7784DC7660E

Compatible Software Versions:

Central EonOne _2_6_e_102

- Non-PS 3000/4000 Gen.2 series do NOT support rolling upgrade from FW 1.48 and older. Please stop IO and shutdown controller before upgrading firmware to v.1.49C14.
- Do NOT support rolling upgrade from older firmware when there is 128G RAM inserted. Please stop IO and shutdown controller before upgrading firmware.
- 3. Please make sure to use Central EonOne v.2.5.r.27 or older for this update, otherwise you might see "Failed to update firmware due to incompatibility with the system." message. Please shutdown the controller if it is not shutdown already and initiate the update again.
- This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.
- This firmware(1.61K) DOES NOT support directly upgrade from ver.148 series or older version. PLEASE upgrade to 1.49 before performing firmware upgrade to 1.61K.
- 6. If the firmware installed on the unit is older than ver. 1.33A.07, please upgrade to 1.49 and restored to default, then upgrade to ver. 1.61K series.



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New features:	

Enhancements:

None

None

Fixed Issues:

1. System fault LED may be turned on automatically without any warning/error message.(ID:2200019)

Known Issues:

None

- 1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
- 2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
- 3. Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.61K.20 Release Note

Updated: Jan. 26th, 2022

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included.

Binary File Name	FA161K20_299_IFT_ESGS.BIN
MD5 Checksum	BA8CD2E8906F45248FECD62ECA2EB3CE

Compatible Software Versions:

Central EonOne _2_6_e_100

- Non-PS 3000/4000 Gen.2 series do NOT support rolling upgrade from FW 1.48 and older. Please stop IO and shutdown controller before upgrading firmware to v.1.49C14.
- 2. Do NOT support rolling upgrade from older firmware when there is 128G RAM inserted. Please stop IO and shutdown controller before upgrading firmware.
- 3. Please make sure to use Central EonOne v.2.5.r.27 or older for this update, otherwise you might see "Failed to update firmware due to incompatibility with the system." message. Please shutdown the controller if it is not shutdown already and initiate the update again.
- This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.
- This firmware(1.61K) DOES NOT support directly upgrade from ver.148 series or older version. PLEASE upgrade to 1.49 before performing firmware upgrade to 1.61K.
- 6. If the firmware installed on the unit is older than ver. 1.33A.07, please upgrade to 1.49 and restored to default, then upgrade to ver. 1.61K series.



New features:

None

Enhancements:

None

Fixed Issues:

- The size of non-cloud volume will be limited by cloud volume maximum size on standard license and cause volume to be unable to expand.(ID:2200009)
- 2. When there is no modification on permission of share folder and apply on EonOne, share folder permission will not re-apply. (ID:2100323)
- 3. Cannot set NFS permission on scale-out folder. (ID:2100324)
- 4. While changing ACL setting, it will not apply to all sub-folders if top level ACL is not modified in EonOne. (ID:2100325)

Known Issues:

None

- 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.
- Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.61K.10 Release Note

Updated: Jan. 26th, 2022

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included.

Binary File Name	FA161K10_299_IFT_ESGS.BIN
MD5 Checksum	46D2300B3E819EBA9065FC3995BC728C

Compatible Software Versions:

Central EonOne 2 6 e 09

- Non-PS 3000/4000 Gen.2 series do NOT support rolling upgrade from FW 1.48 and older. Please stop IO and shutdown controller before upgrading firmware to v.1.49C14.
- 2. Do NOT support rolling upgrade from older firmware when there is 128G RAM inserted. Please stop IO and shutdown controller before upgrading firmware.
- 3. Please make sure to use Central EonOne v.2.5.r.27 or older for this update, otherwise you might see "Failed to update firmware due to incompatibility with the system." message. Please shutdown the controller if it is not shutdown already and initiate the update again.
- 4. This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.
- 5. This firmware(1.61K) DOES NOT support directly upgrade from ver.148 series or older version. PLEASE upgrade to 1.49 before performing firmware upgrade to 1.61K.
- 6. If the firmware installed on the unit is older than ver. 1.33A.07, please upgrade to 1.49 and restored to default, then upgrade to ver. 1.61K series.



New features:

1. Support NFS configuration for Cluster Folder.

Enhancements:

1. Enhance cluster user interface.

Fixed Issues:

- 1. Cannot display domain users correctly in rare cases. (ID: 2100265)
- 2. IFT VASA provider and vCenter server are online, but EonOne is still unable to connect after the PS reboot. (ID: 2100320)
- 3. Data port can not turn off management functionality. (ID: 2100310)
- 4. Fixed that server cannot detect LUN since IO stuck in drive side.(ID:2100300)
- 5. The abnormal internal database update mechanism might cause GUI can't access.(ID:2100291)
- 6. Controller hanged up with specific fibre channel command. (ID:2100287)

Known Issues:

None.

- 1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
- 2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
- 3. Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.61H.14 Release Note

Updated: Jan. 12th, 2022

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included.

Binary File Name	FA161H14_299_IFT_ESGS.BIN
MD5 Checksum	05419311DF645CAC688A0EA8434AF8A4

Compatible Software Versions:

Central EonOne 2 6 d 11

Important Note:

- Non-PS 3000/4000 Gen.2 series do NOT support rolling upgrade from FW 1.48 and older. Please stop IO and shutdown controller before upgrading firmware to v.1.49C14.
- Do NOT support rolling upgrade from older firmware when there is 128G RAM inserted. Please stop IO and shutdown controller before upgrading firmware.
- 3. Please make sure to use Central EonOne v.2.5.r.27 or older for this update, otherwise you might see "Failed to update firmware due to incompatibility with the system." message. Please shutdown the controller if it is not shutdown already and initiate the update again.
- 4. This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.

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None

Enhancements:

None



Fixed Issues:

- 1. Fixed vulnerability in Apache Log4j Java logging library.
- 2. Correct some wording of drive events to avoid confuse. (ID: 2100302)
- 3. Add error handle and debug message when encounter IO hang. (ID: 2100134)

Known Issues:

None

- 1. The unit needs to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
- 2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
- 3. Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.61E.21 Release Note

Updated: Dec. 23rd, 2021

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included.

Binary File Name	FA161E21_299_IFT_ESGS.BIN
MD5 Checksum	990E50A7FF3E4AE2127F17A91B1A2BB7

Compatible Software Versions:

Central EonOne 2 6 c 31

Important Note:

- Non-PS 3000/4000 Gen.2 series do NOT support rolling upgrade from FW 1.48 and older. Please stop IO and shutdown controller before upgrading firmware to v.1.49C14.
- 2. Please make sure to use Central EonOne v.2.5.r.27 or older for this update, otherwise you might see "Failed to update firmware due to incompatibility with the system." message. Please shutdown the controller if it is not shutdown already and initiate the update again.
- This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.

New features:

- 1. Support disabling TLS 1.0 & 1.1 to enhance web browsing security. (ID: 2100115/ID: 2000492)
- 2. Display redundant controller DNS respectively. (ID:2100164)
- 3. Support Eoncloud file-level connection with TLS 1.2.(ID:2000497)
- 4. Allow admin account to login SMB and FTP protocol. (ID: 2000383)
- Support life remaining display for Samsung SATA SSD PM883/PM883 DCT. (ID: 2100201)



6. Added hyperlink to online help in deafult route setting page. (ID: 2000431)

Enhancements:

- 1. Added a warning message for drives with high latency. (ID: 2000092)
- 2. Fixed a bug which caused abnormal memory usage of NAS if Syncback Pro program is used. (ID: 2100189)
- 3. Enhance the buzzer behavior while pressing the power button on GSEpor 208T. (ID: 2000495)
- 4. Enhance event for the hard drive status detection. (ID: 2000420)
- 5. Enhance event messages readability. (ID: 2000334)
- 6. Enhances the R/W performance.(ID: 2000479)
- 7. NAS File service longer support underscore as host name. (ID: 2100250)

Fixed Issues:

- 1. A bug might cause all SATA SSD drives to report an error once each. (ID: 2000375, 2000461)
- Controller might fail when configuring channel IP for iSCSI 25G Host Boards. (ID: 2100160)
- Management interface might become unavailable if one of the controllers encounters ECC memory error. (ID: 2100076)
- 4. Controller might fail in unstable network environment. (ID: 2100106)
- 5. Controller might fail while executing Asynchronyze RR pair. (ID: 2100091)
- 6. Controllers from the same model, but different part number may not be able to boot up together. (ID: 2100116)
- 7. Controller might fail due to internal FC resource running out. (ID: 2100172)
- 8. Incompatibility issue with XMC software if using SNMPv3. (ID: 2100162)
- 9. Controller might fail due to incorrect memory allocation issue. (ID: 2100082)
- 10. SSD Cache might corrupt VMWare Snapshots if using SATA SSD. (ID: 2100198)
- 11. When renaming a snapshot that was shared via CIFS/SMB, it may report an error "Name already exists", which would block it from sharing again. (ID: 2100178)
- 12. Machines accessing SMB shares may disconnect if using custom attributes for files.(ID: 2100192)
- 13. If the system has been under long use, EonOne might stop showing new events. (ID: 2100111)
- 14. SWAP functionality might not behave correctly (ID: 2100243)



- 15. Sometimes GUI might unable synchronize with AD after rebooting when there are huge groups and users. (ID: 2000484)
- Might unable setting NFS permissions for a range of IP address. (ID: 2100197 / ID:2100049)
- 17. The disk pool becomes degraded when running IO before the LD initialization is complete. (ID: 2100244/ ID:2100200)
- 18. The 3rd party library code that causes the GUI inaccessible. (ID: 2100213)
- 19. Disabling drive idle mode (Seagate HDD model only) (ID: 2100210)
- 20. After updating the FW to 1.52A.26 user couldn't configure SNMP monitoring via. (ID: 2100229)
- 21. Unable to delete a partition due to existing mapping. (ID: 2100214)
- 22. AD join may fail when customer choose to create home folder. (ID: 2100184)
- 23. May not open file in UI file manager when folder including specific naming. (ID: 2100159)
- 24. IO may stop in some environments while running IO. (ID: 2100212)
- 25. Unexpected error on controller shut down due to when too many SSH requests in DS. (ID: 2100217/ ID:2100257/ ID:2100258)
- 26. Unexpected error on controller shut down due to there being some missing command between controller A and B. (ID: 2100238)
- 27. PSe Pro firmware can be installed on PS unit, which will result in unable to boot up the controller. (ID: 2100241)
- 28. When enabling File SSD cache and expand the pool by adding another LD, it will result in the capacity of volume not expand on client. (ID: 2100252)
- When disabling the Proxy server function and delete the cache folder in share folder, after PS restart, cache folder will still exist. (ID: 2100262)
- Unable to add PS as device on Central EonOne if one of the file data port is disconnected. (ID: 2100108)
- 31. Day light saving time (DST) does not shown correctly. (ID: 2100158)
- 32. Wrong display of "The share name already exists" while mounting a snapshot.(ID: 2100194)
- 33. Snapshot schedule does not failover to secondary controller if primary controller failed. (ID: 2100181)
- 34. Volume might shutdown if the space usage is higher than 95%.(ID: 2100226)
- 35. Improper description as "If the system is down, it cannot transfer its workload to any other network channel" under initial wizard. (ID: 2100203)
- 36. A bug that may potentially cause a loss of connection to the data and management channels when using iSCSI 40G host board.(ID: 2100190)
- 37. Access event may not be seen in UI while some Unicode cannot decode. (ID:2100276)



- 38. Target PS with advanced ACL permission will lose the share folder permission after performing rsync. (ID: 2100128)
- 39. Create Pool will fail with SSD over-provisioning set as non-zero value. (ID: 2100278)
- 40. It may encounter controller failure when performing rsync. (ID: 2100248)
- 41. When using VMWare mounting NFS as data store and create/migrate VMs into PS share folder, I/O may be frozen unexpectedly. (ID: 2100221)
- 42. Sometimes the failover might incomplete and cause GUI can't access due to SSD cache checking mechanism. (ID: 2100298)

Known Issues:

None.

- 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.
- Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.52J.22 Release Note

Updated: May 31st, 2022

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included. They can be found via the links listed at the footnote.

Binary File Name	FA152J22_292_IFT_ESGS.BIN
MD5 Checksum	74D13DE2A02E1E4F255FDDA3931784B5

Compatible Software Versions:

Central EonOne _2_5_u_1102

Important Note:

- 1. Non-PS 3000/4000 Gen.2 series do NOT support rolling upgrade from FW 1.48 and older. Please stop IO and shutdown controller before upgrading firmware to v.1.49C14.
- 2. Please make sure to use Central EonOne v.2.5.r.27 or older for this update, otherwise you might see "Failed to update firmware due to incompatibility with the system." message. Please shutdown the controller if it is not shutdown already and initiate the update gain.
- 3. This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.
- 4. Please make sure to temporarily disable SSD Trim (Unmap) on the Windows server by executing "fsutil behavior set DisableDeleteNotify 1" in terminal before creating a new file system on partition. After it's done enable it by entering "fsutil behavior set DisableDeleteNotify 0". Otherwise, creating a file system will be very slow.

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None

Enhancements:

None



Fixed Issues:

1. Improper flush mechanism might cause data corruption when controller failed. (ID: 2200057)

Known Issues:

None

- 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.
- When using VMWare mounting NFS as data store and create/migrate VMs into PS share folder, I/O may be freezed unexpectedly. If you encounter this, please temporary switch to use block level iSCSI.
- 4. Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.52J.07 Release Note

Updated: Apr 28th, 2022

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included. They can be found via the links listed at the footnote.

Binary File Name	FA152J07_292_IFT_ESGS.BIN
MD5 Checksum	12797A0BE294F2995215B558C58B467B

Compatible Software Versions:

Central EonOne _2_5_u_1102

- 1. Non-PS 3000/4000 Gen.2 series do NOT support rolling upgrade from FW 1.48 and older. Please stop IO and shutdown controller before upgrading firmware to v.1.49C14.
- 2. Please make sure to use Central EonOne v.2.5.r.27 or older for this update, otherwise you might see "Failed to update firmware due to incompatibility with the system." message. Please shutdown the controller if it is not shutdown already and initiate the update gain.
- 3. This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.
- 4. Please make sure to temporarily disable SSD Trim (Unmap) on the Windows server by executing "fsutil behavior set DisableDeleteNotify 1" in terminal before creating a new file system on partition. After it's done enable it by entering "fsutil behavior set DisableDeleteNotify 0". Otherwise, creating a file system will be very slow.



New features:

1. Support ResourceSpace App in Docker with license required.

Enhancements
None

Fixed Issues:

None

Known Issues:

None

- 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.
- When using VMWare mounting NFS as data store and create/migrate VMs into PS share folder, I/O may be freezed unexpectedly. If you encounter this, please temporary switch to use block level iSCSI.
- 4. Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.52H.02 Release Note

Updated: Mar 4th, 2022

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included. They can be found via the links listed at the footnote.

Binary File Name	FA152H02_292_IFT_ESGS.BIN
MD5 Checksum	84FCA3963621134BB5C0FE0B5458E748

Compatible Software Versions:

Central EonOne 2 5 u 905

- 1. Non-PS 3000/4000 Gen.2 series do NOT support rolling upgrade from FW 1.48 and older. Please stop IO and shutdown controller before upgrading firmware to v.1.49C14.
- 2. Please make sure to use Central EonOne v.2.5.r.27 or older for this update, otherwise you might see "Failed to update firmware due to incompatibility with the system." message. Please shutdown the controller if it is not shutdown already and initiate the update again.
- 3. This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.
- 4. Please make sure to temporarily disable SSD Trim (Unmap) on the Windows server by executing "fsutil behavior set DisableDeleteNotify 1" in terminal before creating a new file system on partition. After it's done enable it by entering "fsutil behavior set DisableDeleteNotify 0". Otherwise, creating a file system will be very slow.



New features:

1. Support Resource space APP and AI app.(for GSi model)

Enhancements:

None

Fixed Issues:

1. Cannot connect via iSCSI after firmware update. (ID: 2100236)

Known Issues:

None

- 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.
- When using VMWare mounting NFS as data store and create/migrate VMs into PS share folder, I/O may be freezed unexpectedly. If you encounter this, please temporary switch to use block level iSCSI.
- Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.52F.06 Release Note

Updated: Jan 26th, 2022

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included. They can be found via the links listed at the footnote.

Binary File Name	FA152F06_291_IFT_ESGS.BIN
MD5 Checksum	21883CFF73B817ECDA3EEC960A029A13

Compatible Software Versions:

Central EonOne 2 5 u 904

Important Note:

- 1. Non-PS 3000/4000 Gen.2 series do NOT support rolling upgrade from FW 1.48 and older. Please stop IO and shutdown controller before upgrading firmware to v.1.49C14.
- 2. Please make sure to use Central EonOne v.2.5.r.27 or older for this update, otherwise you might see "Failed to update firmware due to incompatibility with the system." message. Please shutdown the controller if it is not shutdown already and initiate the update again.
- 3. This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.

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None

Enhancements

1. Enhances the R/W performance.(ID:

2000479)



Fixed Issues:

- 1. Fixed vulnerability in Apache Log4j Java logging library.
- 2. Sometimes GUI might unable synchronize with AD after rebooting when there are huge groups and users. (ID: 2000484)
- A bug that may potentially cause a loss of connection to the data and management channels when using iSCSI 40G host board.
 (ID: 2100190)
- 4. Sometimes the failover might incomplete and cause GUI can't access due to SSD cache checking mechanism. (ID: 2100298)
- Create Pool will fail with SSD over-provisioning set as non-zero value. (ID: 2100278)
- 6. AD join may fail when customer choose to create home folder. (ID: 2100184)
- 7. May not open file in UI file manager when folder including specific naming. (ID: 2100159)
- Enhance the buzzer behavior while pressing the power button on GSEpor 208T.
 (ID: 2000495)
- 9. IO may stop in some environments while running IO. (ID: 2100212)
- 10. Access event may not be seen in UI while some Unicode cannot decode. (ID: 2100276)
- 11. After updating the FW to 1.52A.26 user couldn't configure SNMP monitoring via. (ID: 2100229)
- 12. Machines accessing SMB shares may disconnect if using custom attributes for files.(ID: 2100192)
- 13. Target PS with advanced ACL permission will lose the share folder permission after performing rsync. (ID: 2100128)
- 14. When renaming a snapshot that was shared via CIFS/SMB, it may report an error "Name already exists", which would block it from sharing again. (ID: 2100178)
- 15. SWAP functionality might not behave correctly (ID: 2100243)
- Machines accessing SMB shares may disconnect if using custom attributes for files.(ID: 2100192)
- 17. Inconsistent iSCSI data channel cause partition lose connection. (ID: 2100301)
- 18. Fixed controller hanged up with specific fibre channel command. (ID: 2100287)
- 19. Rsync task will start over when there is file vanish on source share. (ID: 2100269)
- 20. Fixed that server cannot detect LUN since IO stuck in drive side. (ID: 2100300)
- 21. Fixed a bug which cause controller to shutdown when running IO before volume not fully initialized. (ID: 2100247)
- 22. Fixed a bug which cause controller to shutdown and whole ESXi cluster to shutdown. (ID: 2100172)



- 23. Improper memory allocate mechanism on iSCSI session might cause Bosch IPCAM connection drop. (ID: 2100222)
- 24. When there is no modification on permission of share folder and apply on EonOne, share folder permission will not re-apply. (ID: 2100323)
- 25. Improper coredump generate mechanism might cause coredump not generated after press the service button. (ID: 2100299)
- 26. Fixed a bug which caused abnormal memory usage of NAS if Syncback Proprogram is used. (ID: 2100189)

Known
Issues:

None.

- 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.
- When using VMWare mounting NFS as data store and create/migrate VMs into PS share folder, I/O may be freezed unexpectedly. If you encounter this, please temporary switch to use block level iSCSI.
- 4. Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.52E.44 Release Note

Updated: Dec. 24th, 2021

Note: Starting from 1.49C.14 Firmware for PSe/GSa/GSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included. They can be found via the links listed at the footnote.

Binary File Name	FA152E44_292_IFT_ESGS.BIN
MD5 Checksum	DBDC1581EE7B36762AD1E93BAD734CFC

Compatible Software Versions:

Central EonOne _2_5_u_1003

Important Note:

- 1. Non-PS 3000/4000 Gen.2 series do NOT support rolling upgrade from FW 1.48 and older. Please stop IO and shutdown controller before upgrading firmware to v.1.49C14.
- 2. Please make sure to use Central EonOne v.2.5.r.27 or older for this update, otherwise you might see "Failed to update firmware due to incompatibility with the system." message. Please shutdown the controller if it is not shutdown already and initiate the update again.
- This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.

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None

Enhancements None



Fixed Issues:

1. Fixed vulnerability in Apache Log4j Java logging library.

Known Issues:

None.

- 1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
- 2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
- 3. When using VMWare mounting NFS as data store and create/migrate VMs into PS share folder, I/O may be freezed unexpectedly. If you encounter this, please temporary switch to use block level iSCSI.
- 4. Systems with Pool larger than 1PB and firmware before v.1.52A26 can't do rolling update to this release. Please shutdown system first.



Firmware 1.52A.77 Release Note

Updated: Aug. 15th, 2021

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included. They can be found via the links listed at the footnote.

Binary File Name	FA152A77_292_IFT_ESGS.BIN
MD5 Checksum	915228188421A121414909071FB7F7CD

Compatible Software Versions:

Central EonOne _ 2_5_u_35 EonView for

Windows: 1.0.6-0322 EonView for MAC

1.0.6-0421

Important Note:

- 1. Non-PS 3000/4000 Gen.2 series do NOT support rolling upgrade from FW 1.48 and older. Please stop IO and shutdown controller before upgrading firmware to v.1.49C14.
- 2. Please make sure to use Central EonOne v.2.5.r.27 or older for this update, c.

New features:

None



Enhancements

 The enclosure will increase Fan speeds if it detects high temperature on the ECC memory for PS 3000/4000 Gen2.

Fixed Issues:

None

Known Issues:

1. When SSD trim is enabled, the host side might take a longer time to format partition on Windows when using all SSD in RAID. (ID: 2100160)

- 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.
- When using VMWare mounting NFS as data store and create/migrate VMs into PS share folder, I/O may be freezed unexpectedly. If you encounter this, please temporary switch to use block level iSCSI.
- 4. Systems with Pool larger than 1PB can't do rolling update to this release. Please shutdown the system first.



Firmware 1.52A.26 Release Note

Updated: Jun. 26th, 2021

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included. They can be found via the links listed at the footnote.

Binary File Name	FA152A26_291_IFT_ESGS.BIN
MD5 Checksum	4937E56E02FA47E0230072AF58B26A40

Compatible Software Versions:

Central EonOne _ 2_5_u_35 EonView for

Windows: 1.0.6-0322 EonView for MAC

1.0.6-0421

Important Note:

- 1. Non-PS 3000/4000 Gen.2 series do NOT support rolling upgrade from FW 1.48 and older. Please stop IO and shutdown controller before upgrading firmware to v.1.49C14.
- 2. Please make sure to use Central EonOne v.2.5.r.27 or older for this update, otherwise you might see "Failed to update firmware due to incompatibility with the system." message. Please shutdown the controller if it is not shutdown already and initiate the update again.
- 3. This firmware version does NOT support firmware downgrade to 1.49C or older unless all Logical Drives are deleted from the system.

New features:

- 1. Supports SSD file cache.
- 2. Supports file-level SSD cache.
- Added support for SSD lifespan optimization via overprovisioning, TRIM (unmap), and improved RAID 5/6 architecture for avoiding clustered SSD failures. It's automatically used when a new All SSD Raid 5/6 Logical Drive is created.



- 4. Supports settings NAS write policy on single controller models.
- 5. Supports NAS memory usage optimization via virtual memory. Please ensure that the Pool with file-level volume has more than 64GB of free space.
- 6. Supports 9K jumbo frames. (ID: 210003)
- 7. Supports vCenter Plug-ins for VMWare v6.7 and v7.0 (ID: 2000344)
- 8. Supports local/domain group quota for share folders. (ID: 2000363)
- 9. Supports changing owner on user home folders. (ID: 2000378)
- 10. Supports disabling HTTP port. (ID: 2000385)
- 11. Supports event log forwarding. (ID: 2000412)
- 12. Supports Asynchronous I/O mode on SMB. (ID: 2000480)
- 13. Supports setting NFS permissions for a range of IP's. (ID: 2000475)
- 14. Supports more SMB encryption options. (ID: 2100040)

Enhancements

- Enhances memory utilization for NAS. (ID: 2000145, 2000210, 2100012, 2000478, 2100056)
- 2. Enhances WORM with more retention options. (ID: 2000410)
- 3. Enhances initial setup wizard with stripe size selection. (ID: 2000443)
- 4. Enhances setting NFS permissions via wildcard characters. (ID: 2000475)
- 5. Enhances SSH security by disabling cipher CBC mode. (ID: 2100004)
- 6. Enhances EonView login time. (ID: 2100075)
- 7. Enhances error messages when configuring AD. (ID: 2000444)
- 8. Enhances EonView auto discovery time. (ID: 2000490)

Fixed Issues:

- Storage might become inaccessible if one of the data channels are plugged out.
 (ID: 2000200)
- SMB share might unmount on client machines if recycle bin is enabled. (ID: 2000284)
- 3. Files from share folder may disappear and appear in recycle bin with size of 0B. (ID: 2000285)
- 4. Controller might fail if FTP users are rapidly logging in and out. (ID: 2000312)
- 5. Controller might fail after terminating iSCSI connection. (ID: 2000319)



- 6. Pool with size bigger than 1PB will disappear in case of power outage. (ID: 2000350)
- 7. Scheduled event time may change after a reboot or system time change. (ID: 2000352)
- Users may not be able to access file in their home folders after restoring PS to default. (ID: 2000358, 2000385)
- Management interface might stop responding if frequently switching on/off file-level protocols. (ID: 2000370, 2000437)
- 10. Adding SSD drive to all SSD Logical Drive may get stuck. (ID: 2000447)
- 11. GSc series may incorrectly show due date on pre-installed licenses. (ID: 2100011)
- 12. Drive performance monitor might show incorrect data. (ID: 2100021)
- 13. AD username will not be shown in the user list in case of unsupported distinguished name format. (ID: 2100024)
- 14. Rsync task creation might fail with Synology if using Encryption (security shell) Security Level. (ID: 210026)
- 15. Incorrect SSD cache resource allocation might cause redundant system unable to boot up with both controllers. (ID: 2100031)
- 16. Might fail to synchronize domain users if one of the domain controllers has very high latency. (ID: 2100036)
- 17. Veeam backup might get timeout because of CloudBerry software change. (ID: 2100041)
- 18. May not be able to create file-level Cloud storage configuration after firmware update. (ID: 2100054)
- 19. May lose access to GUI when creating Rsync schedule. (ID: 2100063)
- 20. Snapshot creation time may not be shown correctly if DST is enabled. (ID: 2100068)
- 21. A local user may fail to be created if data access log is enabled. (ID: 2100071)
- 22. In some cases, with memory failures firmware reported incorrect slot. (ID: 2100077, 2100078)
- 23. Data access log will be in 'escaped' format when using multiple language file paths. (ID: 2100081)
- 24. EonOne and host OS may report different User/Free space. (ID: 2100085)
- 25. Firmware might incorrectly report SNMP connection problem if DNS is not specified.(ID: 2100089)
- 26. In some cases, AD administrator's password might be displayed in internal debug logs. (ID: 2100099)
- 27. Media scan will fail in PSe Pro series if using SATA drives bigger than 4TB. (ID: 2100109)



- 28. Disabled network port 6101. (ID: 2100110)
- Some SATA SSD models may cause LD to fatal fail during creation. (ID: 2100130)
- 30. Files that start with "\$" sign may not be deleted from the recycle bin. (ID: 2100150)
- 31. May fail to change EonOne password if disabled access to the management port via data ports. (ID: 2100154)
- 32. Controllers might fail after ending connection due to incorrect driver behavior. (ID: 2100155, 2100163)
- 33. Snapshots may become unmounted when deleting by schedule. (ID: 1900260)
- 34. In environments with huge number of users, some of them may not be able to access share folders due to internal resources becoming full. (ID: 2000194, 2000315, 2000457)
- 35. EonOne might become inaccessible because of high memory used of DNS load balancing. (ID: 2000329, 2100070)
- 36. Pool larger than 1PB may disappear after rebooting the unit. (ID: 2000350)
- 37. Controller might restart if setting permission with huge number of files. (ID: 2000367)
- 38. May fail to join AD if routing is not configured. (ID: 2000396)
- 39. Might be unable to access EonOne and IO into shared folder if enabled syslog. (ID: 2000400)
- 40. One of the channels on iSCSI 10G host boards may not light up on DS boot up (ID: 2000487, 2100002)
- 41. May not be able to add Tier-1 LD after creating Tier-0. (ID: 2000499)
- 42. Due to SMB version change, domain groups may be treated as domain users. (ID: 2000504)
- 43. NAS heartbeat driver might incorrectly cause failover. (ID: 2100006)
- 44. NAS failover might cause EonOne to become inaccessible. (ID: 2100007)
- 45. Incorrect sync-cache address calculation might cause intermittent system reboot. (ID: 2100016) to device via FTP protocol, might get "connection refused" error.
- 46. When connecting (ID: 2100025)
- 47. SMTP & SNMP might not be sent after controller failed because routing table as not been applied to the other controller. (ID: 2100037)
- 48. Customize NTP settings may not be applied correctly. (ID: 2100066)
- 49. Controller might fail due to the internal parameter processing error of the sync cache command. (ID: 2100067)
- 50. Some files may disappear from GUI if data access log was enabled and later disabled. (ID: 2100126, 2100053)



- 51. A memory leak in EonOne which might cause GUI/shared folders to become inaccessible. (ID: 2000324)
- 52. ACL permission application error caused by temporary files created during file editing. (ID: 2100104)
- 53. Might be unable to create a Pool in a system with enabled LD auto tiering. (ID: 2100112)
- 54. Controller failure caused by abnormal SMB memory usage. (ID: 2100112)
- 55. Files may create 0KB copies on deletion caused by improper internal advanced ACL permission transfer mechanism. (ID: 2000494)
- 56. Due to internal AD configuration mechanism changes, removed authentication setting requirement. (ID: 76801)

Known Issues:

None

- 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.
- When using VMWare mounting NFS as data store and create/migrate VMs into PS share folder, I/O may be freezed unexpectedly. If you encounter this, please temporary switch to use block level iSCSI.
- 4. Systems with Pool larger than 1PB can't do rolling update to this release. Please shutdown the system first.



Firmware 1.49C.14 Release Note

Updated: Dec. 15th, 2020

Note: Starting from 1.49C.14 Firmware for PSe/PSa/PSc/PS Gen.1/2 was merged, therefore release notes for FW ver.1.48 and older will not be included. They can be found via the links listed at the footnote.

Binary File Name	FA149C14_285_IFT_ESGS.BIN
MD5 Checksum	C0725281CC0A6179D3CEE89043C8B1AC

Compatible Software Versions:

Central EonOne _2_5_s_40

Important Note:

- 1. Non-PS 3000/4000 Gen.2 series do NOT support rolling upgrade from FW 1.48 and older. Please stop IO and shutdown controller before upgrading firmware to v.1.49C14.
- 2. Please make sure to use Central EonOne v.2.5.r.27 or older for this update, otherwise you might see "Failed to update firmware due to incompatibility with the system." message. Please shutdown the controller if it is not shutdown already and initiate the update again.

New features:

- 1. Supports DST setting when time zone is set to Sydney, Australia. (ID: 2000051, 2000417)
- 2. Supports ability to modify UID and GID when creating a new User or Group. (ID: 2000181, 2000299, 2000340)
- Supports ability to disable access to Embedded EonOne via data ports. (ID: 2000226)
- 4. Supports Drive Performance Monitor to track latency/bandwidth of individual drives in Central EonOne. (ID: 2000233)



- 5. Supports IPv6 for Rsync. (ID: 2000266)
- 6. Supports joining a private S3 cloud. (ID: 2000267)
- 7. Supports EonView to mount multiple shares at the same time. (ID: 2000328)

Enhancements

- 1. Enhances when connecting via FTP, interface will show only shared folders that are related to the user. (ID: 2000026, 2000160, 2000281)
- 2. Enhances in File Explorer, number of files and subfolders will be listed in properties of a folder. (ID: 2000099)
- 3. Enhances warning when pausing upload to cloud. (ID: 2000217)
- 4. Enhances EonOne GUI to allow disabling SMB v1.0. (ID: 2000237)
- Enhances EonOne GUI now allows to choose multiple drives for Read/Write test.
 (ID: 2000255)
- 6. Enhances NTP server feature to allow multiple NTP server selection. (ID: 2000261)
- 7. Enhances how firmware determines drive failure. (ID: 200365)
- 8. Enhances Rsync schedule options to include 5 min. (ID: 2000376)
- 9. Enhances joining AD with RODC. (ID: 2000377)
- 10. Enhances "read-ahead" option wording for more clarity. (ID: 2000423)
- 11. Enhances wording of several settings in Japanese language to be more consistent with English version. (ID: 2000434)
- 12. Enhances wording after update from system "reset" to "restart". (ID: 2000429)



Fixed Issues:

- 1. When adding 2 or more PS units via in-band connection, only 1 of them may appear. (ID: 1800301)
- 2. Some of the words in Snapshot>More submenu may not be shown in Japanese language. (ID: 1900336)
- 3. May lose access to the management interface because M.2 run out of space. (ID: 2000186)
- 4. Status of deletion task in cloud might become stuck. (ID: 2000171)
- 5. May lose access to the storage when using FC 16G Host Board. (ID: 2000200)
- 6. Removed "Firmware updated" from the "Firmware updated. The storage device password is synced to this embedded system." message to avoid confusion. (ID: 2000209)
- 7. Sometimes passwords on both controllers may not be synced, which leads to password changing when controller A is removed. (ID: 2000239)
- 8. Local users sometimes may not be deleted completely from the system, which will not allow to create users with the same credentials. (ID: 2000214)
- May sometimes fail to set to management port to default 10.10.1.1 IP address via reset to default button, if it was setup from EonOne first, and changed to a no DHCP environment. (ID: 2000225)
- 10. When using RJ45 iSCSI 10G Host Board, data channels may change IP from static to DHCP after performing firmware update. (ID: 2000258)
- 11. Searching for NAS and creating NAS shares from EonView on MAC OA may take a very long time. (ID: 2000263)
- 12. Volume name may change after upgrading firmware. (ID: 2000227)
- 13. Controller might fail when deleting LUNs. (ID: 2000257)
- 14. When exporting NAS logs, they will be packaged in archive. (ID: 2000271)
- 15. May show incorrect NFS share size when after expanding LV. (ID: 2000259)
- 16. After joining AD may not be able to see any child domains. (ID: 2000273, 2000272)
- 17. Local user of AD may not be able to access shared folder via SMB protocol. (ID: 2000289, 2000297)
- 18. New drive may not be recognized after swapping a failed drive. (ID: 2000317)
- May lose connection to GUI if using Remote Replication, iSCSI 25G Host Board and ISNS at the same time. (ID: 2000277)
- 20. Sometimes may not be able to change password of local user after when connected to AD. (ID: 2000288)



- 21. While using AD, may not be able to access a shared folder with local user via SMB protocol. This was caused because of internal SAMBA version update. (ID: 2000289)
- 22. Unplugging iSCSI connection may lead to controller failure. (ID: 2000317)
- 23. May lose access to GUI and storage when writing the data to shared folder for a very long time. (ID: 2000326)
- 24. May not change admin password of Embedded EonOne. (ID: 2000331)
- 25. Expanding Pool might take a very long time if Pool is initializing. (ID: 2000332)
- 26. Controller might fail when exporting core dumps if the dumps are too big. (ID: 2000337)
- 27. Deletion of Remote Replication pair might cause controller to fail. (ID: 2000351)
- 28. Newly added channel IDs may not be able to be mapped to LUNs from GUI. (ID: 2000359)
- 29. Rerouting issue that might cause controller failure. (ID: 2000360)
- 30. May not be able to enable IP autoblock feature. (ID: 2000366)
- 31. Might not be able to connect to S3 services when changing cloud database folder after deleting the database file. (ID: 2000380)
- 32. Very frequent login/logout operations to FTP in a short period may force controller to reboot. (ID: 2000386)
- 33. Access log might be using too much storage space. (ID: 2000391)
- 34. Might lose access to UI and IO might hang when exporting system information. (ID: 2000400)
- 35. "Read ahead option for media editing" might cause performance drops. (ID: 2000409)
- 36. Might be able to choose thin-provisioning when creating file-level volume for NAS.(ID: 2000489)
- 37. Daylight Saving Time might cause inconsistency with event logs and system time.(ID: 2000411)
- 38. AD might fail if local user without home folder tries to login. (ID: 2000414)
- 39. Drive may not be considered as failed if a lot of drive errors are reported in short period. (ID: 2000428)
- 40. Controller might fail when deleting Remote Replication pair if writing on target is not stopped. (ID: 2000430)
- 41. Sometimes GUI might not update that LD initialization is complete. (ID: 2000439)
- 42. When accessing EonOne choosing "None" when asked for default rout will still choose a default route. (ID: 2000442)



- 43. Adding SSD to LD might get stuck. (ID: 2000447)
- 44. Permission settings of a domain user might not be saved. (ID: 2000449)
- 45. Red LED that appears on the front panel after disconnecting a channel may not disappear after connecting a channel back. (ID: 2000455)
- 46. Accessing via FTP by specifying path may redirect back to root path. (ID: 2000433)
- 47. Sometimes might intermittently lose access to the NFS share folder. (ID: 2000465)
- 48. Controller might fail when creating a pool. (ID: 2000469)
- 49. Users from the same AD group with read/write permissions may not be able to delete/edit the files. (ID: 2000477)
- 50. Sometimes may display "Unable to start media scan" after media scan has already started. (ID: 68153)

Known Issues:

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

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