



PS Release Notes

Applicable Models:

PS 2000 Series:

PS 2024UR/US

PSe 2024U

PS 3000 Series:

PS 3024UR/US

PS 3025UR/US

PSe 3024U

PS 4000 Series:

PS 4025URT/UST

All Firmware Versions:

Version	Release Date	Note
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	This FW version does not support following models: PS 3024URT/PSe 3024UT/PSe 4024U/PS 4024UR If user wants to update FW, please use FW version 165E19.
1.64V20	06/07/2023	This FW version does not support following models: PS 3024URT/PSe 3024UT/PSe 4024U/PS 4024UR If user wants to update FW, please use FW version 164Y20.
1.64K25	02/21/2023	
1.64G18	01/07/2023	
1.64A21	11/08/2022	Initial release for below models:

		PS 4024UR/PS 3024URT/PSe 4024U/PSe 3024UT / PSe 2024U/PSe 3024U
1.62G18	07/28/2022	
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	Initial release

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	794E5DB182A96EB0079C56B1EA959F2B213C943F

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

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

Fixed Issues

None

Known Issues

1. 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)

Limitation:

1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
3. 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

1. 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

1. Drive latency message displaying
2. XFS defragment speed
3. 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)
6. 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)
7. Enhanced 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

1. 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)
3. 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)
5. 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)
9. 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)
 34. 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. Fixed that nfs bug caused NAS kernel 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 response 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

1. 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)

Limitation:

1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
3. 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

1. 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)
3. Fixed an improper checking mechanism of Central EonOne management software, which caused memory usage to pile up and led to controller failure. (ID: 2300301)
4. 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

1. 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)

Limitation:

1. The unit need to be inserted at least 4GB DIMM to enable Jumbo Frame function when using 12 channels.
2. Volume cannot be rolled back by snapshot when using cloud-connected folder.
3. 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

1. 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. 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

1. 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)

Limitation

None

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_IPT_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

1. 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.

New features

None

Enhancements

None

Fixed Issues

1. 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)
4. 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 causing by improper iSCSI packets handling.
(ID:2300154)
8. 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)
10. 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 hang up.
(ID:2300191)

Known Issues

1. 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)

Limitation

None

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

1. 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.

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)
4. 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)
15. 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

1. 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)

Limitation

None

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_IPT_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:

1. 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.

New features:

1. Support File-level HA service.
2. Support CRPS model.(Except GS4024R2B)
3. 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)
9. 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:

1. 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)

Limitation:

None

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:

1. 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.

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:

1. 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:

1. 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)

Limitation:

None

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:

1. 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.

New features:

1. Support HA Service.
2. Support PS icelake model (PS 4024UR PS 3024URT)
3. Support PSe U.2 model
PSe 3024UT/4024U(Ice Lake)
PSe 2024U/3024U(Hewitt Lake)
4. Support "Update virus pattern" function from WebGUI.
(ID:2200149)
5. Support CIFS/SMB opportunistic lock (oplock) option.
6. 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)
6. 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)
9. 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)

13. 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:2200142)
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:2200184t

Known Issues:

1. 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)

Limitation:

None

Firmware 1.62G.18 Release Note

Updated: July. 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	FA162G18_299_IFT_ESGS.BIN
MD5 Checksum	4CF23DC7EEA422B8E682269219B30DBA

Compatible Software Versions:

Central EonOne_2_6_g_17

Important Note:

1. 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.

New features:

1. Support Immutable Object Storage.
2. Support Multi-Factor Authentication.

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:

1. 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)

Limitation:

None

Firmware 1.62A.23 Release Note

Updated: May. 31st, 2022

Binary File Name	FA162A23_299_IPT_ESGS.BIN
MD5 Checksum	F044DBA1398CFC885F87F06255AAD539

Compatible Software Versions:

EonOne_2_6_f_34

Important Notes:

1. Do NOT support rolling upgrade from older firmware when there is 128G RAM inserted. Please stop IO and shutdown controller before upgrading firmware.

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)
9. 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 expand.(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 backup complete event on event log. (ID: 2200026)
21. 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 can't 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

Limitation:

None

Firmware 1.61Q.05 Release Note

Updated: Apr. 28th, 2022

Binary File Name	FA161Q05_299_IPT_ESGS.BIN
MD5 Checksum	04ADC9024E195D4A75B4690545626D6B

Compatible Software Versions:

EonOne_2_6_e_200

EonFS_NASImg_74.2.0-41

Important Notes:

1. Do NOT support rolling upgrade from older firmware when there is 128G RAM inserted. Please stop IO and shutdown controller before upgrading firmware.

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

Limitation:

None

Firmware 1.61K.37 Release Note

Updated: Mar. 10th, 2022

Binary File Name	FA161K37_299_IFT_ESGS.BIN
MD5 Checksum	849F7B28331DBEF64CBCB7784DC7660E

Compatible Software Versions:

EonOne : EonOne_2_6_e_102

Important Notes:

2. Do NOT support rolling upgrade from older firmware when there is 128G RAM inserted. Please stop IO and shutdown controller before upgrading firmware.

New Features:

None

Enhancements:

None

Fixed Issues:

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

Known Issues:

None

Limitation:

None

Firmware 1.61K.20 Release Note

Updated: Jan. 26th, 2022

Binary File Name	FA161K20_299_IFT_ESGS.BIN
MD5 Checksum	BA8CD2E8906F45248FECD62ECA2EB3CE

Compatible Software Versions:

EonOne : EonOne_2_6_e_100

Important Notes:

1. Do NOT support rolling upgrade from older firmware when there is 128G RAM inserted. Please stop IO and shutdown controller before upgrading firmware.

New Features:

None

Enhancements:

None

Fixed Bugs:

1. Fixes: The size of non-cloud volume will be limited by cloud volume maximum size on standard license and cause volume can't be expand.(ID:2200009)

Known Issues:

None

Limitation:

None

Firmware 1.61K.10 Release Note

Binary File Name	FA161K10_299_IFT_ESGS.BIN
MD5 Checksum	46D2300B3E819EBA9065FC3995BC728C

Compatible Software Versions:

EonOne_2_6_e_09

Important Notes:

1. Do NOT support rolling upgrade from older firmware when there is 128G RAM inserted. Please stop IO and shutdown controller before upgrading firmware.

New Features:

None

Enhancements:

None

Fixed Bugs:

1. Fixes: Cannot display domain users correctly in rare cases. (ID: 2100265)
2. Fixes: IFT VASA provider and vCenter server are online, but EonOne is still unable to connect after the PS reboot. (ID: 2100320)
3. Fixes: 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. Fixes: The abnormal internal database update mechanism might cause GUI can't access. (ID:2100291)
6. Fixes: Controller hanged up with specific fibre channel command.

(ID:2100287)

Known Issues:

None

Limitation:

None

Firmware 1.61H.14 Release Note

Updated: Jan. 12th, 2022

Binary File Name	FA161H14_299_IPT_ESGS.BIN
MD5 Checksum	05419311DF645CAC688A0EA8434AF8A4

Compatible Software Versions:

EonOne_2_6_d_11

Important Notes:

1. Do NOT support rolling upgrade from older firmware when there is 128G RAM inserted. Please stop IO and shutdown controller before upgrading firmware.

New Features:

None

Enhancements:

None

Fixed Bugs:

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

Known Issues:

None

Limitation:

None

Firmware 1.61E21 Release Note

Update date: Nov. 30th, 2021

Binary File Name	FA161E21_299_IFT_ESGS.BIN
MD5 Checksum	990E50A7FF3E4AE2127F17A91B1A2BB7

Compatible Software Versions:

EonOne_2_6_c_31

Important Notes:

Initial Release for PS 2000U/ PS 3000U/ PS 4000U

New Features:

1. Support U.2 bundle drive.
2. Support CIFS/NFS for file level scale-out.
3. Support auto_balancing for file level scale-out
4. Support offline folder migration for file level scale-out.
5. Support SSD over provisioning.
6. Support file snapshot.
7. Support Volume migration for block scale-out.
8. Supports vCenter Plug-ins for VMWare v6.7 and v7.0 (ID: 2000344)

Enhancements:

None

Fixed Bugs:

None

Known Issues:

None