



Release notes

E-Series Systems

NetApp
February 12, 2024

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What's new in SANtricity OS

The following table describes new features in SANtricity OS 11.8 for embedded management of EF300, EF600, E2800/EF280, and E5700/EF570 controllers.

New features in Version 11.80

New feature	Description
Enhanced Volume Parity Scan	Volume parity scan can now be launched as a background process either via the REST API or via CLI. The resulting parity scan will run in the background as long as is required to complete the scan operation. Scan operations will survive controller reboots and failover operations.
SAML Support for Unified Manager	Unified Manager now supports SAML (Security Assertion Markup Language). Once SAML is enabled for Unified Manager, users must use multi factor authentication against the identity provider in order to interact with the user interface. Note that once SAML is enabled on Unified Manager, the REST API cannot be used without going through the IdP to authenticate requests.
Auto Configuration Feature	Now supports the ability to set the volume block size parameter to use with the Auto Configuration feature for initial array setup. This feature is available in the CLI only as a "blockSize" parameter.
Controller Firmware Cryptographic Signing	Controller firmware is cryptographically signed. Signatures are checked during initial download and at each controller boot. No end user impact expected. Signatures are backed by a CA issued Extended Validation certificate.
Drive Firmware Cryptographic Signing	Drive firmware is cryptographically signed. Signatures are checked during initial download and backed by a CA issued Extended Validation certificate. Drive firmware content is now delivered as a ZIP file, which contains the older non-signed firmware as well as the new signed firmware. The user must chose the appropriate file based on the release version of code that is running on the target system.

New feature	Description
External Key Server Management - Certificate Key Size	<p>The new default certificate key size is 3072 bits (from 2048). Key sizes up to 4096 bits are supported. An NVSRAM bit must be changed in order to support the non-default key sizes.</p> <p>Key size selection values are as follows:</p> <ul style="list-style-type: none"> • DEFAULT = 0 • LENGTH 2048 = 1 • LENGTH 3072 = 2 • LENGTH 4096 = 3 <p>To change key size to 4096 via the SMcli:</p> <pre>set controller[b] globalnvrambyte[0xc0]=3; set controller[a] globalnvrambyte[0xc0]=3;</pre> <p>Interrogate the key size:</p> <pre>show allcontrollers globalnvrambyte[0xc0];</pre>
Disk Pool Improvements	<p>Disk pools created with controllers running 11.80 or above will be <i>Version 1</i> pools as opposed to <i>Version 0</i> pools. A downgrade operation is restricted when a <i>Version 1</i> disk pool exists.</p> <p>The version of a disk pool can be identified in the storage array profile.</p>
System Manager and Unified Manager will not launch unless minimum browser requirements are met	<p>A minimum version of the browser is required before either System Manager or Unified Manager will launch.</p> <p>The following are the minimum supported versions:</p> <ul style="list-style-type: none"> • Firefox minimum version 80 • Chrome minimum version 89 • Edge minimum version 90 • Safari minimum version 14
Support for FIPS 140-3 NVMe SSD drives	<p>Netapp certified FIPS 140-3 NVMe SSD drives are now supported. They will be correctly identified as such in the storage array profile and in System Manager.</p>
Support for SSD Read cache on EF300 and EF600	<p>SSD Read cache is now supported on EF300 and EF600 controllers using HDD with a SAS expansion.</p>
Support for iSCSI and Fibre Channel asynchronous remote mirroring on EF300 and EF600	<p>Asynchronous remote mirroring (ARVM) is now supported on EF300 and EF600 controllers with NVMe and SAS based volumes.</p>

New feature	Description
Support EF300 and EF600 without drives on the base tray	EF300 and EF600 controller configurations without NVMe drives on the base tray is now supported.
USB ports disabled for all platforms	USB ports are now disabled on all platforms.
Increased SSD Read Cache maximum	SSD Read cache maximum increased from 5TB to 8TB.
Assign all flash read cache to a single volume in duplex configs	All SSD Read cache can now be assigned to the same volume on duplex systems whenever a single volume uses the entire SSD cache.
Drive serial number added to drive summary table of storage array profile	The drive serial number has been added to the drive summary table in the Storage Array profile.
Added dom0-misc-logs to daily ASUP	The dom0-misc logs for controller A and B have been added to the daily ASUPs.
Port 443 now used by default for application communicating with embedded web services	Port 443 is now used by the default when communicating with the embedded webserver. The <code>-useLegacyTransferPort</code> CLI command has been added for those who instead want to use the legacy 8443 transfer port. For more information on the new <code>-useLegacyTransferPort</code> CLI command, see the SANtricity CLI What's New .
Scan volume parity progress capability	<p>The following CLI commands were implemented to support job-based volume parity scan operations:</p> <ul style="list-style-type: none"> • Start check volume parity • Save check volume parity job errors • Stop check volume parity job • Show check volume parity job or jobs <p>For more information on the new job-based volume parity scan CLI commands, see the SANtricity CLI What's New.</p>
MFA Support for Unified Manager	Multi-factor authentication (MFA) support is now supported under Unified Manager.
Toggle icon for front-back hardware view	<p>In the Hardware view of System Manager/Unified Manager, the following two tabs are now available to control the front and back view:</p> <ul style="list-style-type: none"> • Drives tab • Controllers & Components tab

New feature	Description
vCenter Storage plugin	The vCenter Storage plugin has been updated for compatibility with the E-Series 11.80 release.
Web Services Proxy 6.0	The Web Services Proxy has been updated to version 6.0 for compatibility with the E-Series 11.80 release.
Removed ASUP case creation flag for E-Series nominal and maximum temperature exceeded events	Case creation flag is now disabled for nominal and maximum temperature exceeded events requiring no action.
Priority case creation flag enabled for the 0x1209 Mel event	A case creation flag is now created for the MEL_EV_DEGRADE_CHANNEL 0x1209 MEL event.

Release notes

Release Notes are available outside this site. You will be prompted to log in using your NetApp Support Site credentials.

- [11.80 Release notes](#)
- [11.70 Release notes](#)
- [11.60 Release notes](#)
- [11.50 Release notes](#)

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