



# Storage Firmware Bundle 2.27 Release Notes

## HCI

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# Storage Firmware Bundle 2.27 Release Notes

Starting with Element 12.0 and management services version 2.14, you can perform firmware-only upgrades on your H-series storage nodes using the NetApp Hybrid Cloud Control UI and REST API. This procedure does not upgrade Element software and enables you to upgrade storage firmware outside of a major Element release.



For H610S storage nodes running Element software version 12.0, you should apply D-patch SUST-909 before you upgrade to storage firmware bundle 2.27. Contact NetApp Support to obtain the D-patch before you upgrade.

## What's New

The storage firmware bundle version 2.27 contains various bug fixes and new features, including security vulnerability fixes. You can upgrade the storage firmware using the instructions in [Upgrade storage firmware](#).

## Updated firmware components

This firmware package contains the following firmware versions for hardware components, with updated versions in bold:

Component	Dell R630	H410S	H610S
BIOS	N/A	NA2.1	3B03
BMC	N/A	<b>6.84.00</b>	<b>3.84.07</b>
NIC / Mellanox	-	14.21.1000	14.22.1002
RMS200	ae3b8cc	7d8422bc	-
RMS300	7d8422bc	7d8422bc	-
NVDIMM, Smart	-	-	3.1
BPM, Smart	-	-	2.16
NVDIMM, Micron Gen1	-	-	26.2c
NVDIMM, Micron Gen2	-	-	25.3c
PGEM, Micron	-	-	1.40
PM863, SED	GXT5404Q	GXT5404Q	-
PM863, NSED	GXT5103Q	GXT5103Q	-
PM883, SED	HXT7104Q	HXT7104Q	-

Component	Dell R630	H410S	H610S
Hawk-4, SED	8ENP7101	8ENP7101	-
Hawk-4, NSED	8ENP6101	8ENP6101	-
PM963, SED	-	-	CXV8202Q
PM963, NSED	-	-	CXV8501Q
PM983, SED	-	-	<b>EDA5302Q</b>
PM983, NSED	-	-	<b>EDA5600Q</b>
CD5, SED	-	-	0108
CD5, NSED	-	-	0108
CD5, FIPS	-	-	0108

## New BMC features

The following are the new BMC features and changes included in this release:

- (H610S) Enabled INITRD support, for loading an initial ramdisk at boot time
- (H610S) Updated SSL help message about X.509 certificates
- (H610S) Disabled TLS 1.0 and 1.1 support to resolve security vulnerabilities
- (H610S, H410S) Added the ability to mount remote media using Redfish APIs
- (H610S) Added support for HTML5 web browser BMC management
- (H610S) Added remote syslog support, to help with remote data center monitoring and management

## Resolved issues

The following are issues that have been resolved in this release:

Issue	Description
N/A	The debug user sysadmin can log in using SSH after resetting the BMC.
N/A	When you use the console to ping the BMC IP address, the BMC does not respond.
N/A	During an AC power cycle stress test, the access permissions of the SOLSSH config file are lost.
CSESF-116	During an AC power cycle stress test, "PROCHOT" CPU thermal warnings appear in the BMC logs.

Issue	Description
CSESF-121	The create and update service account API takes longer than expected.
CSD-3321 / CSESF-129	The H610S BMC can hang and become inaccessible with the error "BMC Self Test Failed".
CSESF-197	The BMC web UI inventory API returns the wrong memory serial number format.

## Resolved security vulnerabilities

The following are security vulnerabilities that have been resolved in this release:

### H410S BMC 6.84.00

- CVE-2019-16649
- CVE-2019-16650
- CVE-2019-6260

### H610S BMC 3.84.07

- CVE-2019-1552
- CVE-2019-1547, CVE-2019-1563
- CVE-2019-5482
- CVE-2019-15903
- CVE-2018-20843
- CVE-2019-14821, CVE-2019-15916, CVE-2019-16413
- CVE-2019-10638, CVE-2019-10639
- CVE-2019-11478, CVE-2019-11479, CVE-2019-11477
- CVE-2019-12819
- CVE-2019-14835, CVE-2019-14814, CVE-2019-14816, CVE-2019-16746
- CVE-2019-19062
- CVE-2019-19922, CVE-2019-20054
- CVE-2019-19447, CVE-2019-19767, CVE-2019-10220

## Known issues

There are no known issues in this release.

## Find more information

- [NetApp Element Plug-in for vCenter Server](#)
- [NetApp HCI Resources Page](#)

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