



# 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 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	-
Hawk-4, SED	8ENP7101	8ENP7101	-
Hawk-4, NSED	8ENP6101	8ENP6101	-
PM963, SED	-	-	CXV8202Q
PM963, NSED	-	-	CXV8501Q
PM983, SED	-	-	<b>EDA5302Q</b>

Component	Dell R630	H410S	H610S
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.
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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