



# Storage Firmware Bundle 2.76 Release Notes

HCI

Michael Wallis, Ann-Marie Grissino  
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# Storage Firmware Bundle 2.76 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.

## What's New

The storage firmware bundle version 2.76 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	SolidFire SF-series	H410S	H610S
BIOS	N/A	NA2.1	<b>3B06</b>
BMC	N/A	6.84.00	<b>3.86.07</b>
NIC / Mellanox	-	<b>14.25.1020</b>	<b>14.25.1020</b>
RMS200	ae3b8cc	ae3b8cc	-
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	<b>HXT7904Q</b>	<b>HXT7904Q</b>	-
Hawk-4, SED	8ENP7101	8ENP7101	-
Hawk-4, NSED	8ENP6101	8ENP6101	-
PM963, SED	-	-	CXV8202Q
PM963, NSED	-	-	CXV8501Q
PM983, SED	-	-	<b>EDA5402Q</b>
PM983, NSED	-	-	<b>EDA5700Q</b>
CD5, SED	-	-	<b>0109</b>
CD5, NSED	-	-	<b>0109</b>

Component	SolidFire SF-series	H410S	H610S
CD5, FIPS	-	-	0108

## Changes in Storage firmware components

Component	Improvement/Change
H610S BIOS 3B06	<ul style="list-style-type: none"> <li>Improved handling of memory failures</li> <li>Updated microcode version to MCU x6906</li> </ul>
H610S BMC 3.86.07	<ul style="list-style-type: none"> <li>Added BIOS PPR event log parsing in BMC SEL</li> <li>Prevent system overheat when BMC hangs</li> <li>Changed length of Group Domain of LDAP from 64 to 128 characters</li> </ul>
H410S/H610S NIC, Mellanox 14.25.1020	N/A
Various Drive Firmware Updates	N/A

## Resolved and known issues

See the [Bugs Online tool](#) for details of issues that have been resolved and for any new issues.

### Accessing the BOL tool

1. Navigate to the [BOL tool](#) and select **Element Software** from the drop-down list:

2. In the keyword search field, type “Storage Firmware Bundle” and click **New Search**:

**NetApp | Support** I need support on...

PRODUCTS ▾ SYSTEMS ▾ DOCS & KNOWLEDGEBASE ▾ COMMUNITY ▾ DOWNLOADS ▾ TOOLS ▾ CASES ▾ PARTS ▾

Bugs Online > Bugs Search > NetApp HCI, SolidFire and Element Software Walk Me Through

Selected product: NetApp HCI, SolidFire and Element Software INTERNAL only full bug list

Search by Bug ID  OR

My favored NetApp HCI, SolidFire and Element Software Bugs

Fav	Title	Severity	Fixed In Versions	Found In Versions	Bug ID	Status	Created On	
	<input type="text" value="Title"/>	All	<input type="text" value="Fixed In Versions"/>	<input type="text" value="Found In Versions"/>	<input type="text" value="Bug ID"/>	All		<input type="button" value="X"/>
No data found								

3. A list of resolved or open bugs is displayed. You can further refine the results as shown:

Fav	Title	Severity	Fixed In Versions	Found In Versions	Bug ID	Status	Created On	
	<input type="text" value="Title"/>	All	<input type="text" value="Fixed In Versions"/>	<input type="text" value="Found In Versions"/>	<input type="text" value="Bug ID"/>	All		<input type="button" value="X"/>
☆	Element File System /var/log has free sp...			12.0, 12.2	PE-12117	Fixed	07-Jan-2021	
☆	NetApp SolidFire Enterprise SDS: Metada...			12.2	PE-11698	Rejected	02-Nov-2020	
☆	SolidFire eSDS: Element does not provide...			12.2	ELEM-15189	Fixed	23-Sep-2020	
☆	After upgrading to Element 11.8 or 12.0 ...			11.3.2, 11.5.1, 11.8, 11.3, 11.5, 12.0	PE-10956	Fixed	19-Aug-2020	
☆	Element version 11.5 or earlier allows n...			10.4, 11.0, 10.0, 10.6, 10.5, 11.3, 11.5, ...	ELEM-14003	Rejected	13-Aug-2020	
☆	Unspecified error in the NetApp Element ...			12.0, 12.2	ELEM-12709	Rejected	23-Apr-2020	
☆	ESXi host incorrectly polls for SMART da...			11.0, 11.2, 12.0, 11.5.1, 11.3.2, 11.1.1, ...	ELEM-8770	New	03-Oct-2019	
☆	Single Failed Drive Can Show Multiple Fa...			11.0, 11.2, 12.0, 11.3, 11.5.1, 11.8, 12.1, ...	ELEM-3534	New	14-Aug-2017	

## Resolved security vulnerabilities

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

### H410S BMC 6.84.00

- CVE-2020-0542, CVE-2020-0532, CVE-2020-0538, CVE-2020-0534, CVE-2020-0541, CVE-2020-0533, CVE-2020-0537, CVE-2020-0531
- CVE-2020-0535, CVE-2020-0536, CVE-2020-0545, CVE-2020-0540, CVE-2020-0566, CVE-2020-0539, CVE-2020-0586, CVE-2020-0594
- CVE-2020-0595, CVE-2020-0596, CVE-2020-8674, CVE-2020-0597 CVE-2020-0543 CVE-2020-0548, CVE-2020-0549

### H610S BMC 3.84.07

- CVE-2019-20636
- CVE-2019-11599, CVE-2020-12826, CVE-2020-12464, CVE-2020-12114

- CVE-2016-3706, CVE-2011-5320, CVE-2015-8984, CVE-2015-8983, CVE-2015-8982, CVE-2006-7254, CVE-2005-3590

## Find more information

- [NetApp HCI Documentation Center](#)
- [NetApp HCI Resources Page](#)

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