



Storage Firmware Bundle 2.27 Release Notes

HCI

Michael Wallis, amitha
October 29, 2020

This PDF was generated from https://docs.netapp.com/us-en/hci/docs/rn_storage_firmware_2.27.html on November 23, 2020. Always check docs.netapp.com for the latest.

Table of Contents

- Storage Firmware Bundle 2.27 Release Notes 1
 - What’s New 1
 - New BMC features 2
 - Resolved issues 2
 - Resolved security vulnerabilities 3
 - Known issues 3

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	6.84.00	3.84.07
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	-	-	EDA5302Q
PM983, NSED	-	-	EDA5600Q
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 HCI Documentation Center](#)
- [NetApp HCI Resources Page](#)

Copyright Information

Copyright © 2020 NetApp, Inc. All rights reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means-graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system-without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP “AS IS” AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.277-7103 (October 1988) and FAR 52-227-19 (June 1987).

Trademark Information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.