



**Hewlett Packard  
Enterprise**

# **HPE 3PAR OS 3.3.1 MU2 Patch 52 Release Notes**

## **Abstract**

This release notes document is for 3.3.1 MU2 P52.

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# Purpose

HPE 3PAR OS 3.3.1 MU2 Patch 52 provides support for drive firmware updates.

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❗ **IMPORTANT:** See the [HPE 3PAR OS and Service Processor Software Update Guide \(HPE 3PAR OS 3.3.1 HPE 3PAR Service Processor 5.x\)](#) for instructions on updating your specific software.

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## Guidance

This patch is recommended for arrays containing the affected drive models. Arrays running on OS versions prior to 3.3.1 MU2 P37 should not upgrade to P37, P42. They should use P52 instead.

## Prerequisites

- Minimum Service Processor required: 5.0.3 + latest SP Patch.
- Base OS: 3.3.1 MU2. See the Requires field in the Patch details.

## Patch details

Patch ID: P52

Synopsis: Provides support for drive FW updates

Date: February 12, 2019, 09:05:55 PST

Description: See the Release Notes for details about this patch

Affected Packages: tpd-cfgfiles, tpd-drivefw, tpd-fwdb, tpd-prerevert

Obsoletes: OS-3.3.1.410-P37, OS-3.3.1.410-P42

Requires: OS-3.3.1.410-MU2, OS-3.3.1.410-P51

Build Version: 3.3.1.516

Patches Included: None.

Patches Partially Superseded: OS-3.3.1.410-P48

Patches Obsolete by Combination: None.

Supports Revert: Yes

Notes: Description of the obsoleted patches:

Patch ID: P37

Synopsis: Provides support for drive FW updates

Date: August 23, 2018, 16:18:50 PDT

Description: See the Release Notes for details about this patch

Affected Packages: tpd-cfgfiles, tpd-drivefw, tpd-fwdb, tpd-prerevert

Obsoletes: OS-3.3.1.410-P35

Requires: OS-3.3.1.410-MU2, OS-3.3.1.410-P30

Build Version: 3.3.1.463

Notes: Description of the obsoleted patches:

Patch ID: P35

Synopsis: Provides support for drive FW updates

Date: July 09, 2018, 19:08:48 PDT

Description: See the Release Notes for details about this patch

Affected Packages: tpd-drivefw, tpd-fwdb, tpd-prerevert

Obsoletes: None

Requires: OS-3.3.1.410-MU2,OS-3.3.1.410-P30

Build Version: 3.3.1.448

Notes:

Patch ID: P42

Synopsis: Provides support for drive FW updates.

Date: August 30, 2018, 09:27:18 PDT

Description: See the Release Notes for details about this patch

Affected Packages: tpd-fwdb, tpd-drivefw, tpd-prerevert

Obsoletes: None

Requires: OS-3.3.1.410-MU2,OS-3.3.1.410-P30,OS-3.3.1.410-P37

Build Version: 3.3.1.465

Notes:

**NOTE:**

Hewlett Packard Enterprise recommends installing patches in the same sequence as they are released, unless instructed otherwise.

# Modifications

HPE 3PAR OS 3.3.1 MU2 P52 provides support for the following new drives and drive firmware upgrades. DOPE and DOPM drives will remain at their current firmware level.

Drive	Categor y	Capacity	Speed	StoreSer v 10000	StoreSer v 7000	StoreSer v 20000	StoreSer v 8000	StoreSer v 9000	FW
AREX04 80S5xnN TRI	SSD	480GB	100K	No	Yes	Yes	Yes	No	3P07
AREX09 20S5xnN TRI	SSD	920GB	100K	No	Yes	No	No	No	3P07
AREX19 20S5xnN TRI	SSD	1.92TB	100K	Yes	Yes	Yes	Yes	No	3P07
AREX38 40S5xnN TRI	SSD	3.84TB	100K	No	Yes	Yes	Yes	No	3P07

Table Continued

AREX04 00S5xnN TRI	SSD	400GB	150K	Yes	Yes	Yes	Yes	No	3P03
AREX09 20S5xnF TRI	SSD	920GB	100K	No	Yes	Yes	Yes	No	3P03
AREX19 20S5xnF TRI	SSD	1.92TB	100K	No	Yes	Yes	Yes	No	3P03
AREX38 40S5xnF TRI	SSD	3.84TB	100K	No	Yes	Yes	Yes	Yes	3P03
STHB06 00S5xeN 010	FC	600GB	10K	Yes	Yes	Yes	Yes	NO	3P03
STHB12 00S5xeN 010	FC	1.2TB	10K	Yes	Yes	Yes	Yes	No	3P03
STHB18 00S5xeN 010	FC	1.8TB	10K	Yes	Yes	Yes	Yes	No	3P03
King Cobra F	FC	300GB	15K	Yes	Yes	Yes	Yes	No	3P04
King Cobra F	FC	600GB	15K	Yes	Yes	Yes	Yes	No	3P04
King Cobra F FIPS	FC	600GB	15K	Yes	Yes	Yes	Yes	No	3P04

## Affected components

Component	Version
Firmware Database	3.3.1.516 (P52)
Drive Firmware	3.3.1.516 (P52)

**NOTE:** Applying an HPE 3PAR OS patch can cause a restart of the affected OS components. This restart is an expected behavior, which will generate events and alerts. The system continues to serve data, but existing CLI or SSMC sessions could be interrupted.

## Installing Drive/Cage Firmware

After a firmware patch is installed successfully, the firmware (drive or cage) must be updated manually. To update the firmware, run the CLI command `starttask admithw -ni`. This command runs the update process as a task. Record the task ID for monitoring purposes. Monitor the task for successful completion using the CLI command `showtask -d <task_ID>`. See the appropriate upgrade documentation for details on patch installation. If the task fails, resolve the issue due to which the task failed. After the issue is

resolved, issue the CLI command `starttask admithw -ni`. Note the new task ID number and monitor the `admithw` task completion. Run the `admithw` task to successful completion as soon as possible after installing patches.

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❗ **IMPORTANT:** While revert is possible, HPE does not recommended reverting a patch that delivers firmware after the `admithw` command has been executed. The `admithw` command will activate/update the new firmware. If the patch is reverted prior to `admithw` being executed, use the command `showfirmwaredb -l` after the patch revert has completed to ensure that the FW status is changed from `degraded (old_firmware)` to `normal (current)`. If the OS on the array is upgraded to a later version after a firmware patch is installed, install firmware patches prior to executing `admithw`.

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## Verification

The installation of Patch 52 can be verified from an interactive CLI session. Issue the CLI command `showversion -a -b` to verify that Patch 52 is listed:

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**\$ showversion -a -b**

Release version 3.3.1.410 (MU2)

Patches: P32,P40,P45,P51,P52

Component Name	Version
CLI Server	3.3.1.514 (P51)
CLI Client	3.3.1.514
System Manager	3.3.1.514 (P51)
Kernel	3.3.1.410 (MU2)
TPD Kernel Code	3.3.1.410 (MU2)
TPD Kernel Patch	3.3.1.514 (P51)
CIM Server	3.3.1.410 (MU2)
WSAPI Server	3.3.1.410 (MU2)
Console Menu	3.3.1.410 (MU2)
Event Manager	3.3.1.482 (P45)
Internal Test Tools	3.3.1.410 (MU2)
LD Check Tools	3.3.1.410 (MU2)
Network Controller	3.3.1.410 (MU2)
Node Disk Scrubber	3.3.1.410 (MU2)
PD Scrubber	3.3.1.410 (MU2)
Per-Node Server	3.3.1.482 (P45)
Persistent Repository	3.3.1.514 (P51)
Powerfail Tools	3.3.1.410 (MU2)
Preserved Data Tools	3.3.1.410 (MU2)
Process Monitor	3.3.1.410 (MU2)
Software Updater	3.3.1.467 (P40)
TOC Server	3.3.1.410 (MU2)
VV Check Tools	3.3.1.410 (MU2)
Upgrade Check Scripts	180507.U013
File Persona	1.4.2.40-20171006 (MU2)
SNMP Agent	1.10.0
SSH	6.0p1-4+deb7u5
VASA Provider	3.0.17 (MU2)
<b>Firmware Database</b>	<b>3.3.1.516 (P52)</b>
<b>Drive Firmware</b>	<b>3.3.1.516 (P52)</b>
UEFI BIOS	05.02.54 (MU2)
MCU Firmware (OKI)	4.8.60 (MU2)
MCU Firmware (STM)	5.3.17 (MU2)
Cage Firmware (DC1)	4.44 (MU2)
Cage Firmware (DC2)	2.64 (MU2)
Cage Firmware (DC3)	08 (MU2)
Cage Firmware (DC4)	2.64 (MU2)
Cage Firmware (DCN1)	4082 (MU2)
Cage Firmware (DCN2)	4082 (MU2)
Cage Firmware (DCS1)	4082 (MU2)
Cage Firmware (DCS2)	4082 (MU2)
Cage Firmware (DCS5)	2.79 (MU2)
Cage Firmware (DCS6)	2.79 (MU2)
Cage Firmware (DCS7)	4082 (MU2)
Cage Firmware (DCS8)	4082 (MU2)
QLogic QLA4052C HBA Firmware	03.00.01.77 (MU2)
QLogic QLE8242 CNA Firmware	04.15.27
QLogic 260x HBA FC Firmware	174.03.70
QLogic 27xx/268x HBA FC Firmware	174.03.70

QLogic 83xx HBA FCoE Firmware	08.01.05
QLogic 8300 HBA iSCSI Firmware	05.07.35
Emulex LP11002 HBA Firmware	02.82.x10
Emulex LPe12002 HBA Firmware	02.10.x03
Emulex LPe12004 HBA Firmware	02.10.x03
Emulex LPe16002 HBA Firmware	11.1.220.10
Emulex LPe16004 HBA Firmware	11.1.220.10
3PAR FC044X HBA Firmware	200A8
LSI 9201-16e HBA Firmware	17.11.03
LSI 9205-8e HBA Firmware	17.11.03
LSI 9300-8e HBA Firmware	10.10.01

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**NOTE:** When displaying the `showversion` command output from the SP, the CLI Client version is static in the SP code and may differ from the output from any other system.

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# Websites

## **General websites**

**Hewlett Packard Enterprise Information Library**

**[www.hpe.com/info/EIL](http://www.hpe.com/info/EIL)**

**Single Point of Connectivity Knowledge (SPOCK) Storage compatibility matrix**

**[www.hpe.com/storage/spock](http://www.hpe.com/storage/spock)**

**Storage white papers and analyst reports**

**[www.hpe.com/storage/whitepapers](http://www.hpe.com/storage/whitepapers)**

For additional websites, see **[Support and other resources](#)**.

# Support and other resources

## Accessing Hewlett Packard Enterprise Support

- For live assistance, go to the Contact Hewlett Packard Enterprise Worldwide website:  
<http://www.hpe.com/assistance>
- To access documentation and support services, go to the Hewlett Packard Enterprise Support Center website:  
<http://www.hpe.com/support/hpesc>

### Information to collect

- Technical support registration number (if applicable)
- Product name, model or version, and serial number
- Operating system name and version
- Firmware version
- Error messages
- Product-specific reports and logs
- Add-on products or components
- Third-party products or components

## Accessing updates

- Some software products provide a mechanism for accessing software updates through the product interface. Review your product documentation to identify the recommended software update method.

- To download product updates:

### **Hewlett Packard Enterprise Support Center**

[www.hpe.com/support/hpesc](http://www.hpe.com/support/hpesc)

### **Hewlett Packard Enterprise Support Center: Software downloads**

[www.hpe.com/support/downloads](http://www.hpe.com/support/downloads)

### **Software Depot**

[www.hpe.com/support/softwaredepot](http://www.hpe.com/support/softwaredepot)

- To subscribe to eNewsletters and alerts:

[www.hpe.com/support/e-updates](http://www.hpe.com/support/e-updates)

- To view and update your entitlements, and to link your contracts and warranties with your profile, go to the Hewlett Packard Enterprise Support Center **More Information on Access to Support Materials** page:

[www.hpe.com/support/AccessToSupportMaterials](http://www.hpe.com/support/AccessToSupportMaterials)



**IMPORTANT:** Access to some updates might require product entitlement when accessed through the Hewlett Packard Enterprise Support Center. You must have an HPE Passport set up with relevant entitlements.

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## Customer self repair

Hewlett Packard Enterprise customer self repair (CSR) programs allow you to repair your product. If a CSR part needs to be replaced, it will be shipped directly to you so that you can install it at your convenience. Some parts do not qualify for CSR. Your Hewlett Packard Enterprise authorized service provider will determine whether a repair can be accomplished by CSR.

For more information about CSR, contact your local service provider or go to the CSR website:

<http://www.hpe.com/support/selfrepair>

## Remote support

Remote support is available with supported devices as part of your warranty or contractual support agreement. It provides intelligent event diagnosis, and automatic, secure submission of hardware event notifications to Hewlett Packard Enterprise, which will initiate a fast and accurate resolution based on your product's service level. Hewlett Packard Enterprise strongly recommends that you register your device for remote support.

If your product includes additional remote support details, use search to locate that information.

### Remote support and Proactive Care information

#### HPE Get Connected

[www.hpe.com/services/getconnected](http://www.hpe.com/services/getconnected)

#### HPE Proactive Care services

[www.hpe.com/services/proactivecare](http://www.hpe.com/services/proactivecare)

#### HPE Proactive Care service: Supported products list

[www.hpe.com/services/proactivecaresupportedproducts](http://www.hpe.com/services/proactivecaresupportedproducts)

#### HPE Proactive Care advanced service: Supported products list

[www.hpe.com/services/proactivecareadvancedsupportedproducts](http://www.hpe.com/services/proactivecareadvancedsupportedproducts)

### Proactive Care customer information

#### Proactive Care central

[www.hpe.com/services/proactivecarecentral](http://www.hpe.com/services/proactivecarecentral)

#### Proactive Care service activation

[www.hpe.com/services/proactivecarecentralgetstarted](http://www.hpe.com/services/proactivecarecentralgetstarted)

## Warranty information

To view the warranty information for your product, see the links provided below:

#### HPE ProLiant and IA-32 Servers and Options

[www.hpe.com/support/ProLiantServers-Warranties](http://www.hpe.com/support/ProLiantServers-Warranties)

#### HPE Enterprise and Cloudline Servers

[www.hpe.com/support/EnterpriseServers-Warranties](http://www.hpe.com/support/EnterpriseServers-Warranties)

#### HPE Storage Products

[www.hpe.com/support/Storage-Warranties](http://www.hpe.com/support/Storage-Warranties)

#### HPE Networking Products

[www.hpe.com/support/Networking-Warranties](http://www.hpe.com/support/Networking-Warranties)

## Regulatory information

To view the regulatory information for your product, view the *Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products*, available at the Hewlett Packard Enterprise Support Center:

**[www.hpe.com/support/Safety-Compliance-EnterpriseProducts](http://www.hpe.com/support/Safety-Compliance-EnterpriseProducts)**

### **Additional regulatory information**

Hewlett Packard Enterprise is committed to providing our customers with information about the chemical substances in our products as needed to comply with legal requirements such as REACH (Regulation EC No 1907/2006 of the European Parliament and the Council). A chemical information report for this product can be found at:

**[www.hpe.com/info/reach](http://www.hpe.com/info/reach)**

For Hewlett Packard Enterprise product environmental and safety information and compliance data, including RoHS and REACH, see:

**[www.hpe.com/info/ecodata](http://www.hpe.com/info/ecodata)**

For Hewlett Packard Enterprise environmental information, including company programs, product recycling, and energy efficiency, see:

**[www.hpe.com/info/environment](http://www.hpe.com/info/environment)**

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