



**Hewlett Packard**  
Enterprise

# **HPE 3PAR OS 3.2.2 MU6 Patch 112**

## **Release Notes**

### **Abstract**

This release notes document is for Patch 112.

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# Purpose

The HPE 3PAR OS 3.2.2 MU6 Patch 112 provides support for new drives.

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## IMPORTANT:

See the [HPE 3PAR OS and Service Processor Software Update Guide \(HPE 3PAR OS 3.2.x HPE 3PAR Service Processor 4.x\)](#) for instructions on updating your specific software.

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## Guidance

This is an as needed patch.

## Prerequisites

- SP prerequisite: SP-4.4.0.GA-88 plus the latest SP patch.
- Base OS: OS-3.2.2.709-MU6. See Requires in Patch details.

## Patch details

Patch ID: P112

Synopsis: Provides support for drive firmware updates

Date: June 29, 2018, 13:03:10 PDT

Description: See the Release Notes for details about this patch

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

Obsoletes: OS-3.2.2.709-P104

Requires: OS-3.2.2.709-MU6

Patches Partially Superseded: None

Patches Included: None

Patches Obsolete by Combination: None

Supports Revert: Yes

Build Version: 3.2.2.747

Notes: Description of the obsoleted patches:

Patch ID: P104

Synopsis: Provides support for drive FW updates

Date: April 05, 2018, 13:09:16 PDT

Description: See the Release Notes for details about this patch

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

Obsoletes: OS-3.2.2.709-P96

Requires: OS-3.2.2.709-MU6

Build Version: 3.2.2.732

Notes: Description of the obsoleted patches:

Patch ID: P96

Synopsis: Provides support for drive FW updates.

Date: November 20, 2017, 09:44:32 PST

Description: See the Release Notes for details about this patch

Affected Packages: tpd-fwdb, tpd-prerevert

Obsoletes: None

Requires: OS-3.2.2.709-MU6

Build Version: 3.2.2.711

Notes:

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**NOTE:**

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

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## Modifications

Patch 112 provides support for new drives:

Drive	Category	Capacity	Speed	StoreServ 10000	StoreServ 7000	StoreServ 20000	StoreServ 8000	FW
SSKB0600S5xeN010	FC	600GB	10K	Yes	Yes	Yes	Yes	3P01
SSKB1200S5xeN010	FC	1.2TB	10K	Yes	Yes	Yes	Yes	3P01
SSKB1800S5xeN010	FC	1.8TB	10K	Yes	Yes	Yes	Yes	3P01
SSKB1200S5xeF010	FC	1.2TB	10K	Yes	Yes	Yes	Yes	3P01

## Affected components

Component	Version
Firmware Database	3.2.2.747 (P112)
Drive Firmware	3.2.2.747 (P112)

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**NOTE:**

Applying an HPE 3PAR OS patch can cause a restart of the affected OS components. When components are restarted, events and alerts are generated and this is an expected behavior. The system continues to serve data, but existing CLI or SSMC sessions could be interrupted.

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## Installing Drive 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. The `admithw` task should be run to successful completion as soon as possible after installing patches.

This patch is revertible, however, revert after the supported drives are in use makes them unavailable.

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## IMPORTANT:

Drive firmware patches that are installed and then reverted prior to activation of the firmware upgrade require that the CLI command `showfirmwaredb -l` is executed after the patch revert is completed. This final, manual step in the revert process ensures that the physical disk state is changed from `degraded old_firmware` back to `normal`. While revert is possible, it is not recommended to revert a patch that delivers firmware after activation (`admithw` has been run).

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## Verification

The installation of P112 can be verified from an interactive CLI session. Issue the CLI command `showversion -a -b` to verify that P112 is listed.

```
showversion -a -b
Release version 3.2.2.709 (MU6)
Patches: P112

CLI Server                3.2.2.709 (MU6)
CLI Client                 3.2.2.709
System Manager            3.2.2.709 (MU6)
Kernel                    3.2.2.709 (MU6)
TPD Kernel Code           3.2.2.709 (MU6)
CIM Server                 3.2.2.709 (MU6)
WSAPI Server              3.2.2.709 (MU6)
Console Menu              3.2.2.709 (MU6)
Event Manager             3.2.2.709 (MU6)
Internal Test Tools       3.2.2.709 (MU6)
LD Check Tools            3.2.2.709 (MU6)
Network Controller        3.2.2.709 (MU6)
Node Disk Scrubber        3.2.2.709 (MU6)
PD Scrubber               3.2.2.709 (MU6)
Per-Node Server           3.2.2.709 (MU6)
Persistent Repository     3.2.2.709 (MU6)
Powerfail Tools           3.2.2.709 (MU6)
Preserved Data Tools      3.2.2.709 (MU6)
Process Monitor           3.2.2.709 (MU6)
Rolling Upgrade Tools     3.2.2.709 (MU6)
Software Updater          3.2.2.709 (MU6)
TOC Server                3.2.2.709 (MU6)
```

VV Check Tools	3.2.2.709 (MU6)
File Persona	1.2.4.3-20170601
SNMP Agent	1.8.0
SSH	6.6p1-4~bpo70+1
VASA Provider	2.2.10
<b>Firmware Database</b>	<b>3.2.2.747 (P112)</b>
<b>Drive Firmware</b>	<b>3.2.2.747 (P112)</b>
UEFI BIOS	04.08.39
MCU Firmware (OKI)	4.8.29
MCU Firmware (STM)	5.2.53
Cage Firmware (DC1)	4.44
Cage Firmware (DC2)	2.64
Cage Firmware (DC3)	08
Cage Firmware (DC4)	2.64
Cage Firmware (DCN1)	4078
Cage Firmware (DCN2)	4078
Cage Firmware (DCS1)	4078
Cage Firmware (DCS2)	4078
Cage Firmware (DCS5)	2.86
Cage Firmware (DCS6)	2.86
Cage Firmware (DCS7)	4078
Cage Firmware (DCS8)	4078
QLogic QLA4052C HBA Firmware	03.00.01.77
QLogic QLE8242 CNA Firmware	04.15.08
QLogic 8300 HBA FC Firmware	08.01.05
QLogic 8300 HBA FCoE Firmware	08.01.05
QLogic 8300 HBA iSCSI Firmware	05.07.07
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	10.6.248.8
Emulex LPe16004 HBA Firmware	10.6.248.8
3PAR FC044X HBA Firmware	200A8
LSI 9201-16e HBA Firmware	17.11.00
LSI 9205-8e HBA Firmware	17.11.00
LSI 9300-8e HBA Firmware	07.10.01

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**NOTE:**

When displaying the `showversion` command output from the SP, the CLI Client version is fixed 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)

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### 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 for your product or to view the *Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products* reference document, go to the Enterprise Safety and Compliance website:

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

### Additional warranty information

#### HPE ProLiant and x86 Servers and Options

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

#### HPE Enterprise 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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