



Hewlett Packard
Enterprise

HPE 3PAR OS 3.3.1 MU3 Patch 53

Release Notes

Abstract

This release notes document is for 3.3.1 MU3 P53.

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Purpose

The HPE 3PAR OS 3.3.1 MU3 Patch 53 further improves error handling for certain drive models.

❗ **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.

Guidance

This patch is critical when the following drive models are installed.

Affected Drive Models		
AREX0400S5xnNTRI	AREX3840S5xnFTRI	AREA0920S5xnNTRI
AREX0480S5xnNTRI	AREA7680S5xnNTRI	AREA1920S5xnNTRI
AREX0920S5xnNTRI	AREA15T4S5xnNTRI	AREA3840S5xnNTRI
AREX1920S5xnNTRI	AREA7680S5xnFTRI	AREA0920S5xnFTRI
AREX3840S5xnNTRI	AREA15T4S5xnFTRI	AREA1920S5xnFTRI
AREX0920S5xnFTRI	AREA0400S5xnNTRI	AREA3840S5xnFTRI
AREX1920S5xnFTRI	AREA0480S5xnNTRI	

❗ **IMPORTANT:** Do not install this patch on arrays where File Persona is in use with File Provisioning Groups configured for Remote Copy. For those systems, install Patch 55, which includes Patch 53.

Prerequisites

- Minimum Service Processor required: SP-5.0.4 MU2 + latest SP patch.
- Base OS: 3.3.1 MU3. See the Requires field in the Patch details.

Patch details

Patch ID: P53

Synopsis: Further improves error handling for certain drive models

Date: January 25, 2019, 19:47:08 PST

Description: See the Release Notes for details about this patch

Affected Packages: tpd-kernelpatch, tpd-libcli, tpd-sysmgr, tpd-prerevert

Obsoletes: None

Requires: OS-3.3.1.460-MU3

Build Version: 3.3.1.506

Patches Included: None.

Patches Partially Superseded: None.

Patches Obsolete by Combination: None.

Supports Revert: Yes

Notes:

NOTE:

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

Modifications

HPE 3PAR Patch 53 addresses the following issues:

Issue ID: 254138

Issue summary: The array unexpectedly restarts while processing inter node link error.

Platforms affected: All StoreServ

Affected software versions: 3.2.2, 3.3.1 GA - MU3

Issue description: The controller node is unable to participate in cluster validation when an inter node link error occurs. This condition leads to an unexpected array restart.

Symptoms: Unexpected controller node restart.

Conditions of occurrence: Normal operation.

Impact: High

Customer circumvention: None.

Customer recovery steps: None.

Issue ID: 254569, 252333, 254570, 254572, 254573

Issue summary: Certain drive models may experience an internal reset while processing writes.

Platforms affected: All StoreServ

Affected software versions: 3.2.1 MU3-MU5, 3.2.2 GA-MU6, 3.3.1 GA-MU2

Issue description: Further improves error handling within the HPE 3PAR OS for certain drive models to avoid data inconsistency issues when the affected drives perform an internal reset.

Symptoms: Data inconsistency is encountered on the host.

Conditions of occurrence: Normal operation.

Impact: High

Customer circumvention: None.

Customer recovery steps: None.

Affected components

Component	Version
System Manager	3.3.1.506 (P53)
TPD Kernel Patch	3.3.1.506 (P53)

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.

Verification

The installation of Patch 53 can be verified from an interactive CLI session. Issue the CLI command `showversion -a -b` to verify that Patch 53 is listed:

```
$ showversion -a -b
Release version 3.3.1.460 (MU3)
Patches: P53
```

Component Name	Version
CLI Server	3.3.1.460 (MU3)
CLI Client	3.3.1.460
System Manager	3.3.1.506 (P53)
Kernel	3.3.1.460 (MU3)
TPD Kernel Code	3.3.1.460 (MU3)
TPD Kernel Patch	3.3.1.506 (P53)
CIM Server	3.3.1.460 (MU3)
WSAPI Server	3.3.1.460 (MU3)
Console Menu	3.3.1.460 (MU3)
Event Manager	3.3.1.460 (MU3)
Internal Test Tools	3.3.1.460 (MU3)
LD Check Tools	3.3.1.460 (MU3)
Network Controller	3.3.1.460 (MU3)
Node Disk Scrubber	3.3.1.460 (MU3)
PD Scrubber	3.3.1.460 (MU3)
Per-Node Server	3.3.1.460 (MU3)
Persistent Repository	3.3.1.460 (MU3)
Powerfail Tools	3.3.1.460 (MU3)
Preserved Data Tools	3.3.1.460 (MU3)
Process Monitor	3.3.1.460 (MU3)
Software Updater	3.3.1.460 (MU3)
TOC Server	3.3.1.460 (MU3)
VV Check Tools	3.3.1.460 (MU3)
Upgrade Check Scripts	181211.U018
File Persona	1.5.2.8-20180817 (MU3)
SNMP Agent	1.13.0
SSH	7.5p1-5
VASA Provider	3.0.18 (MU3)
Firmware Database	3.3.1.460 (MU3)
Drive Firmware	3.3.1.460 (MU3)
UEFI BIOS	05.04.04 (MU3)
MCU Firmware (OKI)	4.9.01 (MU3)
MCU Firmware (STM)	5.4.00 (MU3)
Cage Firmware (DC1)	4.44 (MU3)
Cage Firmware (DC2)	2.64 (MU3)
Cage Firmware (DC3)	08 (MU3)
Cage Firmware (DC4)	2.64 (MU3)
Cage Firmware (DCN1)	4082 (MU3)
Cage Firmware (DCN2)	4082 (MU3)
Cage Firmware (DCS1)	4082 (MU3)
Cage Firmware (DCS2)	4082 (MU3)
Cage Firmware (DCS5)	2.88 (MU3)
Cage Firmware (DCS6)	2.88 (MU3)
Cage Firmware (DCS7)	4082 (MU3)
Cage Firmware (DCS8)	4082 (MU3)
QLogic QLA4052C HBA Firmware	03.00.01.77 (MU3)
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	05.07.36
Emulex LP11002 HBA Firmware	02.82.x10
Emulex LPe12002 HBA Firmware	02.10.x08
Emulex LPe12004 HBA Firmware	02.10.x08
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	10.10.03

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.

Websites

General websites

Hewlett Packard Enterprise Information Library

www.hpe.com/info/EIL

Single Point of Connectivity Knowledge (SPOCK) Storage compatibility matrix

www.hpe.com/storage/spock

Storage white papers and analyst reports

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

Hewlett Packard Enterprise Support Center: Software downloads

www.hpe.com/support/downloads

Software Depot

www.hpe.com/support/softwaredepot

- To subscribe to eNewsletters and alerts:

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



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.

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

HPE Proactive Care services

www.hpe.com/services/proactivecare

HPE Proactive Care service: Supported products list

www.hpe.com/services/proactivecaresupportedproducts

HPE Proactive Care advanced service: Supported products list

www.hpe.com/services/proactivecareadvancedsupportedproducts

Proactive Care customer information

Proactive Care central

www.hpe.com/services/proactivecarecentral

Proactive Care service activation

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

HPE Enterprise and Cloudline Servers

www.hpe.com/support/EnterpriseServers-Warranties

HPE Storage Products

www.hpe.com/support/Storage-Warranties

HPE Networking Products

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

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

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

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

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