



Hewlett Packard
Enterprise

HPE 3PAR OS 3.2.2 MU4 Patch 113

Release Notes

Abstract

This release notes document is for Patch 3.2.2 MU4 P113 and intended for HPE 3PAR Operating System Software OS-3.2.2.612-MU4.

Part Number: QL226-99913a
Published: June 2018
Edition: 2

Notices

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Purpose

The HPE 3PAR OS 3.2.2 MU4 P113 provides quality improvements for a 3PAR OS upgrade.

❗ **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.

Guidance

This is a critical patch.

Prerequisites

- Minimum Service Processor required: SP-4.4.0.GA-58
- Base OS: OS-3.2.2.612-MU4. See the Requires field in Patch details.

Patch details

Patch ID: P113

Synopsis: Quality improvement for 3PAR OS upgrade

Date: June 08, 2018, 13:06:57 PDT

Description: See the Release Notes for details about this patch

Affected Packages: tpd-api, tpd-cli, tpd-libcli, tpd-libtpdapi, tpd-libtpdtcl, tpd-update, tpd-vasa, tpd-wsapi, tpd-prerevert

Obsoletes: OS-3.2.2.612-P84,OS-3.2.2.612-P92

Requires: OS-3.2.2.612-MU4,OS-3.2.2.612-P59,OS-3.2.2.612-P84,OS-3.2.2.612-P92,OS-3.2.2.612-P94,OS-3.2.2.612-P98

Build Version: 3.2.2.744

Notes: Description of the obsoleted patches:

Patch ID: P84

Synopsis: Provides several quality improvements

Date: July 25, 2017, 21:56:42 PDT

Description: See the Release Notes for details about this patch

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

Obsoletes: OS-3.2.2.612-P60,OS-3.2.2.612-P80

Requires: OS-3.2.2.612-MU4,OS-3.2.2.612-P59

Build Version: 3.2.2.678

Notes: Description of the incorporated patches:

Patch ID: P60

Synopsis: Provides several quality improvements

Date: May 03, 2017, 10:49:57 PDT

Description: See the Release Notes for details about this patch

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

Obsoletes: None

Requires: OS-3.2.2.612-MU4,OS-3.2.2.612-P59

Build Version: 3.2.2.652

Notes:

Patch ID: P80

Synopsis: Provides several quality improvements

Date: June 21, 2017, 22:32:57 PDT

Description: See the Release Notes for details about this patch

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

Obsoletes: OS-3.2.2.612-P76

Requires: OS-3.2.2.612-MU4,OS-3.2.2.612-P59

Build Version: 3.2.2.667

Notes: Description of the incorporated patches:

Patch ID: P76

Synopsis: Prevents an issue that causes RC ports to be incorrectly initialized

Date: June 02, 2017, 19:23:38 PDT

Description: See the Release Notes for details about this patch

Affected Packages: tpd-kernelpatch, tpd-prerevert

Obsoletes: None

Requires: OS-3.2.2.612-MU4,OS-3.2.2.612-P59,OS-3.2.2.612-P60

Build Version: 3.2.2.660

Notes:

Patch ID: P92

Synopsis: Adds quality improvements including OS upgrade and node down recovery

Date: August 26, 2017, 19:27:11 PDT

Description: See the Release Notes for details about this patch

Affected Packages: tpd-cli, tpd-nodesvr, tpd-update, tpd-libcli, tpd-kernelpatch, tpd-sysmgr, tpd-tocsvr, tpd-prerevert

Obsoletes: OS-3.2.2.612-P87

Requires: OS-3.2.2.612-MU4,OS-3.2.2.612-P59,OS-3.2.2.612-P84

Build Version: 3.2.2.687

Notes: Description of the incorporated patches:

Patch ID: P87

Synopsis: Provides Common Criteria updates

Date: July 13, 2017, 15:26:51 PDT

Description: See the Release Notes for details about this patch

Affected Packages: tpd-cli, tpd-prerevert

Obsoletes: None

Requires: OS-3.2.2.612-MU4,OS-3.2.2.612-P59

Build Version: 3.2.2.673

Notes:

NOTE:

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

Modifications

HPE 3PAR OS 3.2.2 MU4 Patch 113 addresses the following issues:

Issue ID	Description
154391	Preupgrade check and upgrade check give misleading info when one node is down.

Affected components

Component	Version
CLI Server	3.2.2.744 (P113)
CIM Server	3.2.2.744 (P113)
WSAPI Server	3.2.2.744 (P113)
Software Updater	3.2.2.744 (P113)

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 113 can be verified from an interactive CLI session. Issue the CLI command `showversion -a -b` to verify that Patch 113 is listed:

Release version 3.2.2.612 (MU4)

Patches: P56, P59, P94, P98, **P113**

Component Name	Version
CLI Server	3.2.2.744 (P113)
CLI Client	3.2.2.744
System Manager	3.2.2.724 (P98)
Kernel	3.2.2.612 (MU4)
TPD Kernel Code	3.2.2.612 (MU4)
TPD Kernel Patch	3.2.2.724 (P98)
CIM Server	3.2.2.744 (P113)
WSAPI Server	3.2.2.744 (P113)
Console Menu	3.2.2.612 (MU4)
Event Manager	3.2.2.612 (MU4)
Internal Test Tools	3.2.2.612 (MU4)
LD Check Tools	3.2.2.612 (MU4)
Network Controller	3.2.2.724 (P98)
Node Disk Scrubber	3.2.2.612 (MU4)
PD Scrubber	3.2.2.612 (MU4)
Per-Node Server	3.2.2.724 (P98)
Persistent Repository	3.2.2.612 (MU4)
Powerfail Tools	3.2.2.612 (MU4)
Preserved Data Tools	3.2.2.612 (MU4)
Process Monitor	3.2.2.626 (P56)
Rolling Upgrade Tools	3.2.2.612 (MU4)
Software Updater	3.2.2.744 (P113)
TOC Server	3.2.2.724 (P98)
VV Check Tools	3.2.2.724 (P98)
File Persona	1.2.2.6-20161017
SNMP Agent	1.8.0
SSH	6.6p1-4~bpo70+1
VASA Provider	2.2.11 (P113)
Firmware Database	3.2.2.612 (MU4)
Drive Firmware	3.2.2.612 (MU4)
UEFI BIOS	04.08.38
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)	1.93
Cage Firmware (DCS6)	1.93
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	05.07.06
Emulex LP11002 HBA Firmware	02.82.x10
Emulex LPe12002 HBA Firmware	02.03.x11
Emulex LPe12004 HBA Firmware	02.03.x11
Emulex LPe16002 HBA Firmware	10.6.248.4
Emulex LPe16004 HBA Firmware	10.6.248.4
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	07.00.00

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.

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:

- ❗ **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

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 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:

www.hpe.com/support/Safety-Compliance-EnterpriseProducts

Additional warranty information

HPE ProLiant and x86 Servers and Options

www.hpe.com/support/ProLiantServers-Warranties

HPE Enterprise 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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