

HPE 3PAR OS 3.3.1 MU3 Patch 49 Release Notes

Abstract

This document describes the HPE 3PAR OS 3.3.1 MU3 patch release details. Hewlett Packard Enterprise recommends this patch for all systems running HPE 3PAR OS 3.3.1 MU3 with File Persona.

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HPE 3PAR OS 3.3.1 MU3 Patch 49

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

Install this patch on arrays using File Persona with HPE 3PAR OS 3.3.1 MU3 and later. For instructions on updating your specific software see, HPE 3PAR OS and Service Processor Software Update Guide (https:// support.hpe.com/hpsc/doc/public/display?docId=a00040316en us).

Applying an HPE 3PAR OS patch can cause a restart of the affected OS components. Restarting components generates events and alerts. This behavior is expected. The system continues to serve data, but a restart can interrupt existing CLI or SSMC sessions.

Prerequisites

• SP prerequisite: 5.0.4 + latest patch

OS prerequisites: OS-3.3.1 MU3

Install recommendation

Optional

Patch details

Patch ID:	P49
Synopsis:	Provides improved quality for 3.3.1 MU3 File Persona
Date:	September 24, 2018, 11:42:37 PDT
Description:	See the Release Notes text
Affected Packages:	tpd-fs, tpd-prerevert
Obsoletes:	None
Requires:	OS-3.3.1.460-MU3
Build Version:	3.3.1.473
Supports Revert:	No
Patches Partially Superseded:	None
Patches Obsolete by Combination:	None
Notes:	None

New features and functionality

This patch does not include new features or functionality.

New or updated CLI commands

This patch does not include new or updated CLI commands.

Modifications

Issue ID: 112990

Issue summary: The Server Message Block (SMB) service health monitor restarts the SMB service because of extremely slow system response. This restart interrupts existing SMB client sessions.

Affected platforms: StoreServ 7000c, 8000, 9000, 20000, 20000 R2

Affected software versions: HPE 3PAR OS 3.3.1 MU2 plus File Persona limited availability versions; HPE 3PAR OS 3.3.1 MU3

Issue description: On a system with a heavy load, system calls that take more than 20 seconds can cause the SMB stack to restart, which interrupts SMB client sessions.

Symptoms: During times of heavy use on the cluster, SMB clients experience session interruptions. These interruptions recover automatically, and can appear as a momentary pause in connectivity.

Conditions of occurrence: Heavy I/O loads or very slow authentication responses can cause the SMB service health monitor to restart the SMB service.

Impact: Medium

Customer circumvention: None.

Customer recovery steps: None.

Issue ID: 118971

Issue summary: SMB protocol access and user authentication services are unavailable on startup.

Affected platforms: StoreServ 7000c, 8000, 9000, 20000, 20000 R2

Affected software versions: HPE 3PAR OS 3.3.1 MU2 plus File Persona limited availability versions; HPE 3PAR OS 3.3.1 MU3

Issue description: Each time the protocol and authentication services start, the services enumerate the domain controllers in the Active Directory (AD) forest and add them to a list, even if the domain controllers are already listed. The duplicate entries do not immediately cause an issue, but if the list becomes sufficiently long, the services no longer start successfully. This issue is more likely to occur in systems connected to large AD forests.

Symptoms: High CPU utilization. Loss of access to SMB protocol and authentication services.

Conditions of occurrence: Restart of protocol services several times, accelerated in proportion to the number of domain controllers in the AD forest.

Impact: High

Table Continued

Customer circumvention: None.

Customer recovery steps: None.

Known issues

See, HPE 3PAR OS 3.3.1 MU3 Release Notes.

Affected components

File Persona 1.5.3.2-20180914

Verification

To verify the installation of the latest patch from an interactive CLI session, enter the CLI command showversion -a -b.

Because the CLI Client version in the SP code is a fixed number, the showversion command response sometimes shows a different version when running the command from the SP, versus the output from any other system.

```
$ showversion -a -b
  Release version 3.3.1.460 (MU3)
  Patches: P49
  Component Name
                                                                                                                                    Version
  CLI Server
                                                                                                                                   3.3.1.460 (MU3)
CLI Client 3.3.1.460 (MU3)

System Manager 3.3.1.460 (MU3)

Kernel 3.3.1.460 (MU3)

TPD Kernel Code 3.3.1.460 (MU3)

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)
  CLI Client
                                                                                                                                 3.3.1.460
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 180628.U011.3.4.0.43 (DEVEL)
File Persona 1.5.3.2-20180914 (P49)
                                                                                                                                1.13.0
  SNMP Agent

      SNMP Agent
      1.13.0

      SSH
      7.5p1-5

      VASA Provider
      3.0.18 (MU

      Firmware Database
      3.3.1.460

      Drive Firmware
      3.3.1.460

      UEFI BIOS
      05.04.04 (

      MCU Firmware (OKI)
      4.9.01 (MU

      MCU Firmware (STM)
      5.4.00 (MU

      Cage Firmware (DC1)
      4.44 (MU3)

      Cage Firmware (DC2)
      2.64 (MU3)

                                                                                                                                3.0.18 (MU3)
                                                                                                                                3.3.1.460 (MU3)
                                                                                                                               3.3.1.460 (MU3)
                                                                                                                               05.04.04 (MU3)
                                                                                                                                 4.9.01 (MU3)
                                                                                                                                 5.4.00 (MU3)
```

```
Cage Firmware (DC3)
                                                                                                     08 (MU3)
  Cage Firmware (DC4)
                                                                                                      2.64 (MU3)
                                                                                                      4082 (MU3)
  Cage Firmware (DCN1)
                                                                                                      4082 (MU3)
  Cage Firmware (DCN2)
                                                                                                     4082 (MU3)
  Cage Firmware (DCS1)
                                                                                                     4082 (MU3)
  Cage Firmware (DCS2)
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

  QLogic 83xx HBA FCoE Firmware 08.01.05
```

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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