

HP 3PAR OS 3.2.1 MU1 Patch 04 Release Notes

This release notes document is for Patch 04 and intended for HP 3PAR Operating System Software 3.2.1.120 (MU1).

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Documentation

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Contents

1 Overview of HP 3PAR OS.....	4
Supported platforms.....	4
Patch Details.....	4
Included in this patch.....	4
Affected components.....	4
Modifications to the HP 3PAR OS.....	4
Verifying the patch installation.....	5

1 Overview of HP 3PAR OS

This release notes document describes the modifications and known issues for Patch 04. The application of this patch is intended for HP 3PAR OS 3.2.1.120 (MU1). This patch is intended to be installed on an as required basis, but is mandatory if using Remote Copy or in-line deduplication.

Supported platforms

The HP 3PAR Configuration Matrix for HP 3PAR OS 3.2.1 contains information about supported hardware and software platforms. For additional information, go to the Single Point of Connectivity Knowledge for HP Storage Products (SPOCK) website: <http://www.hp.com/storage/spock>.

Patch Details

- Patch Name: HP 3PAR OS 3.2.1 MU1 P04
- Prerequisite: The Service Processor must be at least at release level SP-4.3.0.GA-17 plus the latest SP patch
- This patch applies to: HP 3PAR OS Release 3.2.1.120 (MU1)

NOTE: Applying this patch to the HP 3PAR OS will restart some of the affected OS components. With these restarts, events and alerts might be generated and this is an expected behavior. The system continues to serve data, but existing CLI or IMC sessions might be interrupted.

Included in this patch

HP 3PAR OS 3.2.1 MU1 P04 includes:

- Issue ID: 119815, 120319, 120788, 121239, 121757, 121879
- Description: Resolves various Remote Copy and dedup issues.
- Affected Packages: tpd-sysmgr, tpd-kernelpatch, tpd-admck, tpd-prerevert
- Obsoletes: None
- Requires: OS-3.2.1.120-MU1
- Build Version: 3.2.1.140

NOTE: HP recommends installing patches in the same sequence as they are released, unless instructed otherwise.

Affected components

Component	Version
TPD Kernel Patch	3.2.1.140 (P04)
System Manager	3.2.1.140 (P04)

Modifications to the HP 3PAR OS

The purpose of this patch is to address TDVV region moves, conversion speed, various Remote Copy items and a high memory usage situation in 3.2.1-MU1. This patch is a mandatory patch for HP 3PAR OS 3.2.1-MU1.

This release addresses the following items:

Issue number	Description
119815	Resolves an undesirable memory usage issue.
120319	Resolves an issue in the HP 3PAR OS 3.2.1 MU1 to allow Remote Copy groups to remain online during HP 3PAR OS 3.2.1 GA to HP 3PAR OS 3.2.1 MU1 upgrade.
120788	Resolves an issue that impacts the performance of conversion from TPVV.
121239	Resolves an issue with Dedup garbage collection that can happen during region move operation.
121757	Resolves a cache cleanup issue that arises while using dedup function with VAAI locking primitive ATS.
121879	Resolves an issue with a Quorum Witness creation when the admin interface is not on the cluster master.

Verifying the patch installation

The installation of Patch 04 can be verified from an interactive CLI session. Issue the CLI command `showversion -a -b` to verify that Patch 04 is listed.

```
cli% showversion -a -b
Release version 3.2.1.120 (MU1)
Patches: P04

Component Name          Version
CLI Server              3.2.1.120 (MU1)
CLI Client              3.2.1.20
System Manager         3.2.1.140 (P04)
Kernel                 3.2.1.120 (MU1)
TPD Kernel Code       3.2.1.120 (MU1)
TPD Kernel Patch     3.2.1.138 (P04)
CIM Server            3.2.1.120 (MU1)
WSAPI Server         3.2.1.120 (MU1)
Console Menu         3.2.1.120 (MU1)
Event Manager        3.2.1.120 (MU1)
Internal Test Tools  3.2.1.120 (MU1)
LD Check Tools       3.2.1.120 (MU1)
Network Controller   3.2.1.120 (MU1)
Node Disk Scrubber   3.2.1.120 (MU1)
PD Scrubber          3.2.1.120 (MU1)
Per-Node Server      3.2.1.120 (MU1)
Persistent Repository 3.2.1.120 (MU1)
Powerfail Tools      3.2.1.120 (MU1)
Preserved Data Tools 3.2.1.120 (MU1)
Process Monitor      3.2.1.120 (MU1)
Rolling Upgrade Tools 3.2.1.120 (MU1)
Software Updater     3.2.1.120 (MU1)
TOC Server           3.2.1.120 (MU1)
VV Check Tools       3.2.1.140 (P04)
File Persona         1.0.0.5-20140730
SNMP Agent           1.7.0
SSH                  5.5p1-6+squeezel
VASA Provider        2.0.1
Firmware Database    20140822
Drive Firmware       20140820
UEFI BIOS            14.08.19
MCU Firmware         4.62
Cage Firmware (DC1)  4.44
Cage Firmware (DC2)  2.64
Cage Firmware (DC3)  08
Cage Firmware (DC4)  2.64
```

Cage Firmware (DCS1)	3218
Cage Firmware (DCS2)	3218
Cage Firmware (DCN1)	3218
QLogic QLA4052C HBA Firmware	03.00.01.77

NOTE: When displaying the `showversion` command output from the Service Processor, the CLI Client version is fixed in the SP code, and might differ from the output displayed from any other system.
