



Hewlett Packard
Enterprise

HPE 3PAR OS 3.2.2 MU2 Patch 15 Release Notes

This release notes document is for Patch 15 and intended for HPE 3PAR Operating System Software 3.2.2.390 (MU2).

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Documentation

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1 Purpose

HPE 3PAR OS 3.2.2 MU2 P15 provides important quality improvements for 3PAR File Persona.

- ① **IMPORTANT:** A known issue with file store snapshots in 3.2.2 MU2 causes excessive failovers. To avoid this issue, upgrade to 3.2.2 MU2 Patch 15.

Guidance

This patch applies to 3PAR OS 3.2.2 MU2. This is a recommended patch.

Prerequisites

- **SP:** 4.4.0.GA-30 plus the latest SP patch (if any)
- **OS:** OS-3.2.2.390-MU2

Details

- **Affected packages:** tpd-fs, tpd-prerevert
- **Obsoletes:** None
- **Build version:** 3.2.2.400
- **Revertible:** No

Warnings, cautions and notes

NOTE:

- Applying this patch to the 3PAR OS might restart 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 SSMC sessions might be interrupted.
- Hewlett Packard Enterprise recommends installing patches in the same sequence as they are released, unless instructed otherwise.
- When displaying the `showversion` command output from the SP, the CLI Client version is fixed in the SP code, and might differ from the output displayed from any other system.

Related documentation

For information about supported browsers for SP, see the Single Point of Connectivity Knowledge (SPOCK) website: <http://www.hpe.com/storage/spock>

Affected components

Component	Version
File Persona	1.2.1.3-20160211 (P15)

Modifications

This patch includes the following modifications to 3PAR OS 3.2.2 MU2:

- Corrects a rare and incorrect ACCESS_DENIED alert when an SMB client's robocopy version is present with HP-SMB server.
- Corrects an issue in which users may experience an unexpected VFS failover.
- Corrects an issue which causes slow SMB performance, leading to SMB restart.

- Corrects an issue where File Persona services can unexpectedly report "Starting" state and become unavailable. The condition was caused by simultaneous starting of File Persona services on all File Persona nodes after offline upgrade, a call to `shutdownsys reboot` on a cold boot of the system, or after calling `startfs -enable` with all nodes specified.
- Corrects an issue in which, during unmount operation of FPG, internal information retrieval from the FPG generated an access-related alert. The necessary information is now retrieved through an alternate way and FPG is not accessed during its unmount operation.
- Corrects an unexpected failover to the File Persona nodes due to stalls in the nodes caused by limited kernel memory resources if the file-stores have a large number of files and snapshots are taken periodically.

Verification

The installation of Patch 15 can be verified from an interactive CLI session. Issue the CLI command `showversion -a -b` to verify that Patch 15 is listed.

```
cli% showversion -a -b
Release version 3.2.2.390 (MU2)
Patches: P15

Component Name                Version
CLI Server                    3.2.2.390 (MU2)
CLI Client                    3.2.2.390
System Manager                3.2.2.390 (MU2)
Kernel                       3.2.2.390 (MU2)
TPD Kernel Code               3.2.2.390 (MU2)
File Persona                   1.2.1.3-20160211 (P15)
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```