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Enterprise

# HPE 3PAR OS 3.2.2 MU1 Patch 16 Release Notes

This release notes document is for Patch 16 and intended for HPE 3PAR Operating System Software 3.2.2.326 (MU1).

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#### **Documentation**

For the latest version of this document, go to [www.hpe.com/info/enterprise/docs](http://www.hpe.com/info/enterprise/docs).

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# 1 Purpose

HPE 3PAR OS 3.2.2 MU1 P16 prevents an unexpected array restart where RC was ever configured.

## Guidance

This patch applies to 3PAR OS 3.2.2 MU1. This is a recommended patch. The Patch 16 install will fail if 3PAR 3.2.2 MU1 Patch 02 is already installed. Patch 16 should not be applied if the system is running Asynchronous Streaming Remote Copy.

## Prerequisites

- **SP:** 4.4.0.GA-22 plus the latest SP patch (if any)
- **OS:** OS-3.2.2.326-MU1

## Details

- **Affected packages:** tpd-kernelpatch, tpd-prerevert
  - **Obsoletes:** OS-3.2.2.326-P12
  - **Build version:** 3.2.2.398
- Revertible:** Yes

## Warnings, cautions and notes



### **WARNING!**

- Patch 16 should not be applied if the system is running Asynchronous Streaming Remote Copy.
- The Patch 16 install will fail if 3PAR 3.2.2 MU1 Patch 02 is already installed.



**CAUTION:** Patch 16 must be installed prior to upgrading from 3PAR 3.2.2 MU1 to a later version.

### **NOTE:**

- A post-installation procedure to reset 8 GB Fibre Channel (FC) ports is required for Patch 16. Refer to the *HPE 3PAR OS 3.2.2 MU1 Patch 12 Release Notes* for the steps to complete this procedure. This procedure is not required if Patch 12 was previously installed and the post-installation steps were performed.
- 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
TPD Kernel Patch	3.2.2.398 (P16)

## Modifications

This patch includes the following modifications to 3PAR OS 3.2.2 MU1:

- Prevents an unexpected array restart due to a single controller node restart such as, but not limited to, maintenance activities or online upgrades on systems running 3PAR 3.2.2 MU1. This unexpected array restart affects systems on which Remote Copy was ever configured.

## Verification

The installation of Patch 16 can be verified from an interactive CLI session. Issue the CLI command `showversion -a -b` to verify that Patch 16 is listed.

```
cli% showversion -a -b
Release version 3.2.2.326 (MU1)
Patches: P16

Component Name          Version
CLI Server              3.2.2 (MU1)
CLI Client               3.2.2
System Manager           3.2.2 (MU1)
Kernel                  3.2.2 (MU1)
TPD Kernel Code          3.2.2 (MU1)
TPD Kernel Patch         3.2.2 (P16)
.
.
.
```