

# HP 3PAR OS 3.2.1 MU3 Patch 17 Release Notes

This release notes document is for Patch 17 and intended for HP 3PAR Operating System Software 3.2.1.292 (MU3).

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### Documentation

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# 1 Overview of HP 3PAR OS

This release notes document describes the modifications and known issues for Patch 17. The application of this patch is intended for HP 3PAR OS 3.2.1.292 (MU3). This is a recommended patch.

## 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, see 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 MU3 P17
- Prerequisite: The Service Processor must be at release level SP-4.3.0.GA-24 plus the latest available SP patch
- This patch applies to: HP 3PAR OS Release 3.2.1.292 (MU3)

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**NOTE:** This patch is not revertible.

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**NOTE:** Applying this patch to the HP 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 IMC sessions might be interrupted.

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## Included in this patch

HP 3PAR OS 3.2.1 MU3 P17 includes:

- Issue ID: 135384, 137695, 137283, 139233, 138413, 141501, 141958
- Synopsis: Addresses important 3.2.1 MU3 issues
- Affected Packages: tpd-darsvr, tpd-kernelpatch, tpd-sysmgr, tpd-api, tpd-prerevert
- Obsoletes: None
- Requires: OS-3.2.1.292-MU3
- Build Version: 3.2.1.312

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

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## Affected components

Component	Version
TPD kernel patch	3.2.1.312 (P17)
System Manager	3.2.1.312 (P17)
CIM Server	3.2.1.312 (P17)

## Modifications to the HP 3PAR OS

This release addresses the following items:

Issue number	Description
135384	Resolves an issue where certain host SCSI writes to the primary volumes receive good status, instead of a check condition UA, when Remote Copy writes cannot be replicated to the secondary volumes during a Peer Persistence automatic failover.
137695	Online conversions, online copy, online promote, and imports all temporarily close a VV. This might cause system manager to become unresponsive or an unexpected node restart. This is resolved.
137283	Resolves a potential issue where disks being admitted to the system might become inaccessible when the labels are read again.
139233	When upgrading from HP 3PAR OS version 3.2.1.MU2 or earlier to HP 3PAR OS 3.2.1 MU3, synchronizes the hardware clock to the system clock to prevent issues such as early node reboots and non-monotonic log timestamps.
138413	CIM Server is modified to use less system resources when the nodesrv process is slow in responding to CIM Server requests.
141501	Resolves concurrency issue between dedup garbage collection and conversions.
141958	Addresses an issue that can cause one or more controller nodes to unexpectedly restart.

## Verifying the patch installation

The installation of Patch 17 can be verified from an interactive CLI session. Issue the CLI command `showversion -a -b` to verify that Patch 17 is listed.

```
cli% showversion -a -b
Release version 3.2.1.292 (MU3)
Patches: P17

Component Name          Version
CLI Server              3.2.1.292 (MU3)
CLI Client              3.2.1.292
System Manager          3.2.1.312 (P17)
Kernel                  3.2.1.292 (MU3)
TPD Kernel Code         3.2.1.292 (MU3)
TPD Kernel Patch        3.2.1.312 (P17)
CIM Server              3.2.1.312 (P17)
.
.
```

**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.