

# HP 3PAR OS 3.1.3 MU1 Patch 03

## Release Notes

This release notes document is for Patch 03 and intended for HP 3PAR Operating System Software 3.1.3.230 (MU1).

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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 03. The application of this patch is intended for HP 3PAR OS 3.1.3.230 (MU1).

## Supported platforms

The HP 3PAR Configuration Matrix for HP 3PAR OS 3.1.3 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>.

## Verifying the patch installation

The installation of Patch 03 can be verified from an interactive CLI session. Issue the CLI command `showversion -a -b` to verify that Patch 03 is listed.

```
cli% showversion -a -b
Release version 3.1.3.230
Patches: P03

Component Name          Version
CLI Server              3.1.3.230
CLI Client              3.1.3.188
System Manager          3.1.3.230
Kernel                 3.1.3.230
TPD Kernel Code         3.1.3.230
TPD Kernel Patch        3.1.3.230
.
.
.
Firmware Database       20140715
Drive Database          20140715
```

**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 on another system.

**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.

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

## Components

Component	Version
CLI Server	3.1.3.230
CLI Client	3.1.3.188
Firmware Database	20140715
Drive Firmware	20140715

## Modifications to the HP 3PAR OS

This release addresses the following item:

Issue number	Description
108121	The purpose of this patch is to resolve a rounding error in the wear calculation of the drive model DOPE1920S5xnNMRI.

The firmware is improved for the following drive:

- DOPE1920S5xnNMRI drive on HP 3PAR StoreServ 7xxx Storage systems