

# HP 3PAR OS 3.1.3 MU1 Patch 05

## Release Notes

This release notes document is for Patch 05 and intended for HP 3PAR Operating System Software 3.1.3.230 (MU1).

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# Contents

1 Overview of HP 3PAR OS.....	4
Supported platforms.....	4
Verifying the patch installation.....	4
Components.....	4
Modifications to the HP 3PAR OS.....	4

# 1 Overview of HP 3PAR OS

This release notes document describes the modifications and known issues for Patch 05. 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 05 can be verified from an interactive CLI session. Issue the CLI command `showversion -a -b` to verify that Patch 05 is listed.

```
cli% showversion -a -b
Release version 3.1.3.230
Patches: P05

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        3.1.3.232 (P05)
...
```

**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
TPD Kernel Patch	3.1.3.232 (P05)

## Modifications to the HP 3PAR OS

The purpose of this patch is to avoid an uncontrolled array shutdown when a QoS rule is enabled after keeping it disabled for a long period.

This release addresses the following item:

Issue number	Description
109036	<p>When a QoS rule is enabled after keeping it disabled for a long period, it might result in an array shut down. To avoid this, when working with QoS rules do not disable the rules. If the rule is not used or you need to suspend the QoS rule, delete the QoS rule. Add the rule again, if required.</p> <p>This is resolved and rules can be enabled and disabled without causing an array shutdown.</p>