

HP 3PAR OS 3.1.3 MU1 Patch 07

Release Notes

This release notes document is for Patch 07 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 07. 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, 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 3.1.3 MU1 P07
- Prerequisite: The Service Processor must be at least at release level SP-4.2.0.GA-29 + the latest available patch
- This patch applies to: HP 3PAR OS Release 3.1.3.230 (MU1)
- Obsoletes: HP 3PAR OS 3.1.3 MU1 P05

NOTE: This patch is not revertible.

Included in this patch

HP 3PAR OS 3.1.3 MU1 P07 includes:

- Issue ID: 115584
- Description: Prevents system outage after a series of delayed I/O requests caused when certain CPU locks are held.
- Affected Packages: tpd-kernelpatch, tpd-prerevert
- Obsoletes: OS-3.1.3.230-P05
- Requires: 3.1.3.230 (MU1)
- Build Version: 3.1.3.242
- Notes: Description of the incorporated patch:
 - Patch ID: P05
 - Synopsis: Disabled QoS rules can be re-enabled
 - Date: July 09, 2014, 23:27:22 PDT
 - Bugs fixed: 109036
 - Description: Disabled QoS rules can be re-enabled, without risk of system outage
 - Affected Packages: tpd-kernelpatch, tpd-prerevert
 - Obsoletes: None
 - Requires: OS-3.1.3.230-MU1
 - Build Version: 3.1.3.232

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

Affected components

Component	Version
TPD Kernel Patch	3.1.3.242 (P07)

Modifications to the HP 3PAR OS

This release addresses the following item:

Issue number	Description
115584	The thread handling remote requests hold the CPU and prevent access to other threads. When certain CPU locks are held, a series of delayed I/O requests might cause system outage. This is resolved.

Verifying the patch installation

The installation of Patch 07 can be verified from an interactive CLI session. Issue the CLI command `showversion -a -b` to verify that Patch 07 is listed.

```
cli% showversion -a -b
Release version 3.1.3.230 (MU1)
Patches: P07

Component Name          Version
CLI Server              3.1.3.230 (MU1)
CLI Client               3.1.3.188
System Manager          3.1.3.230 (MU1)
Kernel                  3.1.3.230 (MU1)
TPD Kernel Code         3.1.3.230 (MU1)
TPD kernel Patch        3.1.3.242 (P07)
...
```

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.