

# HP 3PAR OS 3.1.3 MU1 Patch 10 Release Notes

This release notes document is for Patch 10 and intended for HP 3PAR Operating System Software 3.1.3.230 (MU1) with Patch 07 (P07) and Patch 09 (P09).

HP Part Number: QL226-98014  
Published: December 2014  
Edition: 1



© Copyright 2014 Hewlett-Packard Development Company, L.P.

Confidential computer software. Valid license from HP required for possession, use or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

### Acknowledgments

Intel®, Itanium®, Pentium®, Intel Inside®, and the Intel Inside logo are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

Microsoft®, Windows®, Windows® XP, and Windows NT® are U.S. registered trademarks of Microsoft Corporation.

Adobe® and Acrobat® are trademarks of Adobe Systems Incorporated.

Java and Oracle are registered trademarks of Oracle and/or its affiliates.

UNIX® is a registered trademark of The Open Group.

### Documentation

For the latest version of this document, go to <http://www.hp.com/go/3par/>, navigate to your product page, click **Support for your product**, and then click **Manuals**.

---

# Contents

1 Overview of HP 3PAR OS.....	4
Supported platforms.....	4
Patch Details.....	4
Included in This Patch.....	4
Affected components.....	4
Modifications to the HP 3PAR OS.....	5
Verifying the patch installation.....	5

---

# 1 Overview of HP 3PAR OS

This release notes document describes the modifications and known issues for Patch 10. The application of this patch is intended for HP 3PAR OS 3.1.3.230 (MU1) with Patch 07 (P07) and Patch 09 (P09). This is a recommended patch.

## 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 P10
- 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) with Patch 07 (P07) and Patch 09 (P09)
- Obsoletes: HP 3PAR OS 3.1.3.230 (MU1) Patch 07

---

**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.

---

## Included in This Patch

HP 3PAR OS 3.1.3 MU1 P10 includes:

- Issue ID: 116151, 116690, 112953, 115166
- Description: Prevents service interruption with Quality of Service (QoS) plus Offloaded Data Transfers (ODX), unresponsiveness in Remote Copy (RC) switch over, RC mirror locking, and CLI connection.
- Affected Packages: tpd-sysmgr, tpd-kernelpatch, tpd-cli, tpd-libcli, tpd-libtpdtcl, tpd-update, tpd-prerevert
- Obsoletes: OS-3.1.3.230-P07
- Requires: OS-3.1.3.230-MU1, OS-3.1.3.230-P07, OS-3.1.3.230-P09
- Build Version: 3.1.3.258

---

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

---

## Affected components

Component	Version
CLI Server	3.1.3.258 (P10)
CLI Client	3.1.3.258 (P10)
System Manager	3.1.3.258 (P10)
TPD Kernel Patch	3.1.3.258 (P10)

## Modifications to the HP 3PAR OS

**NOTE:** This patch obsoletes the earlier patch HP 3PAR OS 3.1.3 MU1 P07.

This release addresses the following items:

Issue ID	Description
116151	Prevents Remote Copy replication unresponsiveness during certain <code>setrcopygroup</code> switchover operations or OS upgrades. Also provide checkhealth improvements to detect and correct effects of prior instances of this issue.
116690	An issue in QoS and ODX from Windows hosts causes an uncontrolled shutdown.
112953	Remote mirror locking might remain indefinitely.
115166	Multicast traffic over SLP port (UDP 427) might cause creation of excessive <code>nf_contrack</code> table entries which never expire. The interface responsible for the non-expiring entries is not loaded. If network master is affected, network master must be relocated to another node before patch can be applied.

## Verifying the patch installation

The installation of Patch 10 can be verified from an interactive CLI session. Issue the CLI command `showversion -a -b` to verify that Patch 10 is listed.

```
cli% showversion -a -b
Release version 3.1.3.230 (MU1)
Patches: P09, P10

Component Name          Version
CLI Server              3.1.3.258 (P10)
CLI Client              3.1.3.258
System Manager          3.1.3.258 (P10)
Kernel                  3.1.3.230 (MU1)
TPD Kernel Code         3.1.3.230 (MU1)
TPD Kernel Patch        3.1.3.258 (P10)
CIM Server               3.1.3.230 (MU1)
...
```

**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.