

HP 3PAR OS 3.2.1 MU2 Patch 12

Release Notes

This release notes document is for Patch 12 and intended for HP 3PAR Operating System Software 3.2.1.200 (MU2) Patch 12 (P12).

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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 12. The application of this patch is intended for HP 3PAR OS 3.2.1.200 (MU2). This is a recommended patch but it is a mandatory patch for VMware/VVOL users.

HP offers the following benefits through the integration of VMware VVOLs and HP 3PAR StoreServ:

- Greater application control and efficiency with differentiated data services
- Rapid enablement with zero configuration VMware VVOLs deployment and startup
- Enhanced performance by offloading data services
- Simplified, policy-based management

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, go to 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 MU2 P12
- Prerequisite: The Service Processor must be at release level SP-4.3.0.GA-24 plus the latest SP patch
- This patch applies to: HP 3PAR OS Release 3.2.1.200 (MU2)

NOTE: Applying this patch to the HP 3PAR OS will restart some of 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 3.2.1 MU2 P12 includes:

- Issue ID: 128104, 126313
- Description: Prevents inconsistency in the destination VM when migrating or using host based replication on a running VM using VVOLs.
- Affected Packages: tpd-prerevert, tpd-vasa
- Obsoletes: None
- Requires: OS-3.2.1.200-MU2
- Build Version: 3.2.1.236

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

Affected components

Component	Version
VASA Provider	2.1.4 (P12)

NOTE: Remote CLI clients earlier than version 3.1.2 will not be able to connect to the HP 3PAR OS 3.2.1 MU2 or later.

Modifications to the HP 3PAR OS

The purpose of this patch is to prevent inconsistency in the destination Virtual Machine when migrating storage from a VVOL (VMWare Virtual Volume) storage container or using host based replication on a running Virtual Machine using VVOLs.

This release addresses the following items:

Issue ID	Description
126313	VASA (vStorage APIs for Storage Awareness) Provider can compare differences on volumes within a running VMware. There must be a snapshot relationship between the volumes.
128104	VASA Provider reports differences between consecutive RO (read-only) snapshots.

Verifying the patch installation

The installation of Patch 12 can be verified from an interactive CLI session. Issue the CLI command `showversion -a -b` to verify that Patch 12 is listed.

```
cli% showversion -a -b
Release version 3.2.1.200 (MU2)
Patches: P12

Component Name          Version
CLI Server              3.2.1.200 (MU2)
CLI Client              3.2.1.200
System Manager          3.2.1.200 (MU2)
Kernel                  3.2.1.200 (MU2)
TPD Kernel Code         3.2.1.200 (MU2)
CIM Server              3.2.1.200 (MU2)
.
.
.
VASA Provider           2.1.4 (P12)
...
```

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.
