

HP 3PAR Service Processor Software 4.3.x Release Notes

Abstract

These release notes are for storage administrators of the HP 3PAR Storage System. This document is cumulative and includes subsequent updates relating to the latest HP 3PAR Service Processor Software SP-4.3.0.



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1 Introduction

The HP 3PAR Service Processor Software SP-4.3.x Release Notes document is cumulative and includes information about the base release of HP 3PAR Service Processor Software SP-4.3.x and subsequent updates. Read this document before you install the SP-4.3.x software.

Related Documentation

The following documents provide information related to HP 3PAR StoreServ Storage systems and the HP 3PAR Operating System.

These documents are available on the HP Storage Information Library:

<http://www.hp.com/go/storage/docs>

For information about...	Read the...
Using the Command Line Interface (CLI) to configure and administer HP 3PAR StoreServ Storage systems	<i>HP 3PAR Command Line Interface Administrator's Manual</i> <i>and HP Command Line Interface Reference</i>
Using the HP 3PAR Management Console graphical user interface to configure and administer HP 3PAR storage systems	<i>HP 3PAR Management Console User's Guide</i>
HP 3PAR storage system concepts and terminology	<i>HP 3PAR StoreServ Storage Concepts Guide</i>
Using Remote Copy	<i>HP 3PAR Remote Copy Software User's Guide</i>
Determining HP 3PAR storage system hardware specifications, installation considerations, power requirements, networking options, and cabling	<i>HP 3PAR StoreServ 10000 Storage Physical Planning Manual</i> <i>HP 3PAR StoreServ 7000 Storage Site Planning Manual</i> <i>HP 3PAR StoreServ 7450 Storage Site Planning Manual</i>
Using the service processor to communicate with the HP 3PAR Storage system	<i>HP 3PAR Service Processor Software User Guide</i>

See the *HP 3PAR Service Processor Support Matrix* on the HP Storage Single Point of Connectivity Knowledge (SPOCK) website at: <http://www.hp.com/storage/spock>. Select **3PAR** under the **Other Hardware** menu. Locate **Other HP 3PAR Support Matrices**.

2 Supported Platforms

See the HP Storage Single Point of Connectivity Knowledge (SPOCK) website: <http://www.hp.com/storage/spock> for HP 3PAR OS hardware support information.

NOTE: The physical Service Processor and virtual Service Processor (VSP) are supported only on English-locale platforms.

The following table describes the Service Processors supported with release level SP-4.3.0.

Service Processor	Platform type	Supported models
Virtual Service Processor	Virtual	ESXi 4.x ESXi 5.0 ESXi 5.1 ESXi 5.5
Virtual Service Processor	Virtual	Hyper-V Server 2008 R2 Hyper-V Server 2012 Hyper-V Server 2012 R2
HP ProLiant	Physical	DL320e DL360e
Supermicro	Physical	Supermicro II



IMPORTANT:

- HP 3PAR T-Class and HP 3PAR F-Class platforms are not supported with HP 3PAR OS 3.2.1 and later.
- On HP 3PAR StoreServ 7XX0c platforms do not attempt downgrading to HP 3PAR OS versions 3.1.3 or 3.1.2 from HP 3PAR OS 3.2.1 and later.

Prerequisites

The SP must be at a minimum version of SP-4.1.0.GA-97 before updating to SP-4.3.0.GA-17. Attempting to perform an update from a version below the minimum required version causes the update to fail and an error message to appear.

3 Service Processor Software SP-4.3.0 Release

The following release notes are for the HP 3PAR Service Processor Software SP-4.3.0 release.

What's New in the Service Processor

HP 3PAR Service Processor functions as the communication interface between the customer's IP network and HP 3PAR Central by managing all service-related communications in both directions. The Service Processor leverages the industry-standard HTTP over Secure Socket Layer (HTTPS) protocol to secure and encrypt data communication.

This release includes the following enhancements:

- Upgrading to SP-4.3.0.GA-17 causes a Service Processor restart to activate changes. It may take up to 5 minutes for the Service Processor to become available. You will be disconnected and must log in to the Service Processor once the restart completes.
- The SPOCC home page now displays two new indicators which give space management information:
 - The **SP Storage Space Status** indicates disk space availability on the SP. Availability is **OK** when there is at least 7.5GB or more of disk space available for storing software downloads. Availability is **Low** if there is less than 7.5GB of disk space available and a link appears to SP Cleanup. Finally, if availability is **Very Low** there is less than 5GB of disk space and downloads are suspended.
 - The **Automatic Software Downloads** indicator shows either **Enabled** or **Suspended due to insufficient storage space** when disk space becomes very low.
- Manual cleanup removes HP 3PAR OS packages, SP packages, logs, message logs, files in staging directories, files in user directories, and old core dump files. When you use Manual Cleanup to delete files, files are deleted immediately.
- Automatic cleanup allows you to configure the settings for automatic cleanup of logs, message logs, files in the staging directory, files in the user directory, old core dumps, SP packages, and OS packages. Automatic cleanup runs hourly and files are deleted depending on the settings you choose.
 - Number of Days — Enter a number from 0 through 14 for the number of days you wish to keep logs and files in the staging directory.
 - Delete all pre-staged HP 3PAR OS packages older than the currently installed version when SP space availability is low
 - Delete all pre-staged Service Processor packages older than the currently installed version when SP space availability is low
- Support was added for transferring files larger than 2 GB.
- Support was added to accommodate the HP 3PAR CA-Signed Certificate.
- A new option was added to run the `admithw` command using SPOCC.
- Support was added for new commands on Adaptive Flash Cache.
- Support was added for Hyper-V 2012 R2 with the VSP.
- Support for long passwords was added.

Modifications to the Service Processor

The following issues have been addressed in this release.

Issue ID	Item	Description
105400	New screen requires acknowledgement of responsibilities when using the SPOCC Update Wizard	A new screen was added with links to documentation and an acknowledgement button to confirm that the recommended documentation was reviewed.
102446	Time difference of an hour between the SP and StoreServ	If the SP and StoreServ are set up in a region that stops using daylight saving time, there appears to be a difference of one hour during the daylight saving time date range between the SP and the StoreServ.
111156	OS Validation checks failed at the time of installation of OS Patch using SPOCC	Attempting to perform an online install of a patch causes an error and validation seems to hang.

Known Issues with the Service Processor

Custom User is allowed to add new users from SPMaint but not from SPOCC (Issue 107416)

You must log in with 3parcust credentials to add new users.

SPOCC: A blank screen appears when running a command from **Execute a Command on node** (Issue 101864)

This behavior is observed with Internet Explorer, after clicking **Submit** the screen clears except for the left menu bar. Please wait while the command executes and do not attempt to cancel or select another option from the menu bar.

SPOCC menu table is not displayed properly when using FireFox 30.0 on Windows 8 (Issue 109236)

FireFox 28 and 29 are the only supported versions.

SPOCC: Incremental progress seems to stall at 95% when staging an update (Issue 100561)

When staging the HP 3PAR OS for upgrade, progress seems to stall before reaching 100%.

This behavior is observed because of large file sizes. Do not attempt to cancel staging or start over.

Error staging HP 3PAR OS (113760)

If staging an HP 3PAR OS package fails, retry the operation. If the attempt fails again, contact HP Support.

Blank page appears when running a Health Check (Issue 115056)

When running a Health Check from SPMaint, the screen might remain blank while information is gathered. This process could take more than one minute before displaying results. You might also see this behavior running a Health Check from SPOCC using Internet Explorer. Do not attempt to cancel or restart this function.

Validation checks fail after running Revert (Issue 115079)

After running the Revert function, validation checks might fail even though the Revert was successful.

The message, "System is not currently undergoing on online upgrade" appears during an online upgrade (115331)

During an online upgrade, while the status message shows **In Progress**, the detail portion of the screen shows the message System is not currently undergoing on online upgrade. This message can be safely ignored.

SPOCC allows entry of an invalid mailhost domain name (Issue 102123)

SPOCC will allow the entry of an invalid mailhost domain name.

Click **Test Mailhost** to validate the domain name entered before clicking **Update Mailbox**.

During an upgrade, after all nodes are rebooted the process seems to hang (Issue 114383)

This is a deliberate delay while post processing procedures are performed. Do not cancel the operation.

Online upgrade fails (Issue 115452)

An online upgrade might fail if the SP is unreachable. If this issue occurs, you must perform the upgrade again.

Clicking **Kill Perf Analysis** multiple times stops the httpd daemon (Issue 119527)

When you launch the Performance Analyzer and then click **Kill Perf Analysis** multiple times, the httpd daemon stops working and you cannot launch SPOCC.

When this happens, you must manually reboot the SP from SPMAINT:

1. Enter 1 for **SP Control/Status**.
2. Enter 2 for **Reboot SP**.

Clicking **Kill Perf Analysis** only once will not cause this issue.

4 Service Processor Software SP-4.3.0.GA-17 P001 Release

The following release notes are for the HP 3PAR Service Processor (SP) Software SP-4.3.0.GA-17.P001 release.

SP-4.3.0.GA-17.P001 is a mandatory patch for SP-4.3.0.GA-17.

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- ⚠ **CAUTION:** At the end of the update, the Service Processor will restart. It may take up to 5 minutes before the SP is available after a restart and you will be disconnected during that time.
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- ⓘ **IMPORTANT:** Do not attempt an update to HP 3PAR OS 3.2.1 MU1 from earlier versions before installing the SP-4.3.0.GA-17.P001 patch on SP-4.3.0.GA-17.
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What's New in the Service Processor

This patch includes the following enhancements:

- Addresses the Shellshock Bash vulnerability (CVE-2014-6271 and CVE-2014-7169).
- Addresses the POODLE SSL vulnerability (CVE-2014-3566).
- Addresses DNS WatchDog to prevent the agent from restarting every 5 minutes.
- Addition of Deduplication support.

Known Issues

Clicking **Kill Perf Analysis** multiple times stops the httpd daemon (Issue 119527)

When you launch the Performance Analyzer and then click **Kill Perf Analysis** multiple times, the httpd daemon stops working and you cannot launch SPOCC.

When this happens, you must manually reboot the SP from SPMAINT:

1. Enter 1 for **SP Control/Status**.
2. Enter 2 for **Reboot SP**.

Clicking **Kill Perf Analysis** only once will not cause this issue.

5 Service Processor Software SP-4.3.0.GA-17 P002 Release

The following release notes are for the HP 3PAR Service Processor (SP) Software SP-4.3.0.GA-17.P002 release.

HP 3PAR Service Processor (SP) Software 4.3.0GA-17 P002 is cumulative and includes updates from 4.3.0 P001.

SP-4.3.0.GA-17.P002 is a mandatory patch for SP-4.3.0.GA-17.

⚠ CAUTION: At the end of the update, the Service Processor will restart. It may take up to 5 minutes before the SP is available after a restart and you will be disconnected during that time.

ⓘ IMPORTANT: Do not attempt an update to HP 3PAR OS 3.2.1 MU1 from earlier versions before installing the SP-4.3.0.GA-17.P002 patch on SP-4.3.0.GA-17.

Modifications to the Service Processor

SP-4.3.0.GA-17.P002 addresses the following issues:

Issue ID	Item	Description
127409	Security enhancement	Eliminates potential low-risk security vulnerabilities.

6 Service Processor Software SP-4.3.0 MU1 Release

The following release notes are for the HP 3PAR Service Processor (SP) Software SP-4.3.0 MU1 release.

SP-4.3.0 MU1 is a required maintenance release to support HP 3PAR OS 3.2.1 MU2, which includes support of the File Persona feature.

The software build number of the SP-4.3.0 MU1 release is SP-4.3.0.GA-24.

NOTE: The File Persona feature is only available on systems that support file services. A File Persona license is required.

What's New in the Service Processor

This release includes the following enhancements:

- Alert email messages now show priority in the subject line before the description.
- There is now an updated message in the Check Hosts screen for persistent port information.
- Additional checks and notification when Maintenance Mode is used
- Addresses security vulnerabilities on the SP.
- The message `Generating Cluster Status: be patient, this may take a couple of minutes...` appears while the Check Health function gathers information.
- Automatic exit from maintenance mode upon completion of updates on the SP.
- Addresses SP-4.2.0.GA-29 and P002 Nessus Scan security vulnerabilities.

Modifications

The following issues have been addressed in this release.

Issue ID	Item	Description
108678	Check upgrade is not performing the same checks as the UpgradeSys	Upgrade checks from SPOCC and SPMAINT do not perform the same checks.
114331	The Validate StoreServ readiness page shows an update is already in progress	When performing an HP 3PAR OS update from SPOCC, the Validate StoreServ readiness page shows the message <code>This Wizard cannot proceed since an update is already in progress.</code>
118665	Online update fails	Online update fails with the message <code>File Services upgrade failed. (FAILED: Failed to update File Services after 900 secs.)</code> .
119527	Clicking Kill Perf Analysis multiple times	When you launch the Performance Analyzer and then click Kill Perf Analysis multiple times, the httpd daemon stops working and you cannot launch SPOCC.

Known Issues

SP package clean up (109813)

A staged SP package appears available even after it is deleted using manual clean up.

Maintenance Mode remains ON when SPMAINT is forced to close (121694)

When SPMAINT is forced to close (including an automatic logout or expired session), Maintenance Mode remains ON for 4 hours unless it is manually turned off. Using Exit from SPMAINT does not cause this issue.

7 Service Processor Software SP-4.3.0 MU1 P003 Release

The following release notes are for the HP 3PAR Service Processor (SP) Software SP-4.3.0 MU1 P003 release.

SP-4.3.0.GA-24 P003 is a mandatory patch for SP-4.3.0.GA-24.

SP-4.3.0.GA-24 P003 is a mandatory patch for SP-4.3.0.GA-24 and 3.2.1.MU3.

⚠ CAUTION: At the end of the update, the Service Processor will restart. It may take up to 5 minutes before the SP is available after a restart and you will be disconnected during that time.

NOTE: Patch SP-4.3.0.GA-24 (MU1).P003 is the first patch for this code release.

Modifications

The following issues have been addressed in this release.

Issue ID	Item	Description
97646	On the SPMAINT→StoreServ Product Maintenance page in SPOCC, the Run admithw link did not work.	The Run admithw link in SPOCC has been restored in this patch.
126613	Added support for File Persona	SPOCC and SPMAINT were updated in this patch to support the retrieval of File Persona information.
127409	Security enhancement	Eliminates potential low-risk security vulnerabilities.
128881	File Services upgrade failed. (FAILED: Failed to update File Services after 1800 secs.) error message updated to correct timeout value.	The timeout value referred to in this error message was increased from 900 seconds to 1800 seconds in the SP-4.3.0 MU1 release, but the error message was not changed. This patch addresses the issue.