



Hewlett Packard
Enterprise

HPE 3PAR StoreServ Management Console 3.4 Release Notes

Abstract

The information in this document is developed for use by Hewlett Packard Enterprise customers, partners, and Hewlett Packard Enterprise field representatives. These release notes describe the features and fixes included in HPE 3PAR StoreServ Management Console 3.4.

Part Number: QL226-99899
Published: September 2018
Edition: 1

Notices

The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise 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. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

Confidential computer software. Valid license from Hewlett Packard Enterprise 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.

Links to third-party websites take you outside the Hewlett Packard Enterprise website. Hewlett Packard Enterprise has no control over and is not responsible for information outside the Hewlett Packard Enterprise website.

Acknowledgments

Microsoft[®] and Windows[®] are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

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

VMware[®], VMware[®] vCenter Server[®], and VMware vSphere[®] Web Client are registered trademarks or trademarks of VMware, Inc. in the United States and/or other jurisdictions.

Contents


HPE 3PAR StoreServ Management Console 3.4 Release Notes	4
Description.....	4
New features.....	4
Update recommendation.....	7
Supersede information.....	8
Products.....	8
SSMC compatibility and interoperability.....	8
Accessing SSMC information in SPOCK.....	8
Supported HPE 3PAR Operating Systems for SSMC.....	9
Supported browsers for SSMC.....	9
Supported proxy settings for SSMC.....	9
Languages.....	9
Prerequisites.....	9
System requirements.....	9
Server sizing information.....	10
Security settings for SSMC.....	11
SSMC LDAP settings.....	11
Next Generation Performance Analytics.....	11
HPE InfoSight in SSMC.....	11
SSMC deployment as virtual appliance.....	11
Migrating from Installer based SSMC deployment to SSMC appliance.....	12
Upgrade considerations for SSMC appliance.....	13
Fixes.....	13
Known issues and workarounds.....	14
Related information.....	24
Documentation feedback.....	24

HPE 3PAR StoreServ Management Console

3.4 Release Notes

Description

This release notes provides information on the new features, fixes for HPE 3PAR StoreServ Management Console (SSMC) 3.4. SSMC is a standalone product that installs as a single package. It consists of two consoles: the Administrator Console and the Main Console. The Administrator Console allows you to add, disconnect, remove, and upgrade HPE 3PAR StoreServ systems, and to manage certificates for 3PAR StoreServ storage arrays. The Main Console provides access to the features you can use to manage 3PAR StoreServ systems. For documentation related to the Administrator Console, see *HPE 3PAR StoreServ Management Console Administrator Guide*. For documentation related to the Main Console, see *HPE 3PAR StoreServ Management Console User Guide*. The related documentation is available in [HPE Storage Information Library](#).

 **IMPORTANT:** With the release of the HPE 3PAR Operating System 3.2.2, SSMC is the default management tool for 3PAR arrays that support 3PAR OS 3.2.2 and later. The HPE 3PAR Management Console (MC) has reached the end of its support life.

More information

[HPE Storage Information Library](#)

New features

In addition to supporting 3PAR OS 3.3.1 (and current MUs), SSMC 3.4 includes the new features described in the following table.

SSMC 3.4 is available as a virtual appliance only. SSMC appliance is a preconfigured Virtual Machine that runs on Debian Operating System. For more information on the SSMC appliance, see *HPE 3PAR StoreServ Management Console Administrator Guide*.

Category	Items	New features in SSMC 3.4
General**	Dashboard** Activity** Schedules** Settings**	<ul style="list-style-type: none"> • View most resource used systems, performance impact, and volumes impacted by the performance issues. • View Top Performance Outliers, Top Systems By Saturation, Top Volume Hotspots By IO/s, and Top Volume Hotspots By Latency panels in dashboard. • View HPE InfoSight alerts on HPE 3PAR arrays. • Add connectivity to HPE InfoSight, web proxy address, web proxy port, web proxy user, web proxy password. • Added advanced system performance and analytics reporting. • An SMTP panel is added to configure SMTP server settings in HPE 3PAR SSMC.
Block Persona**	Hosts** Host Sets Virtual Volumes** Virtual Volume Sets Common Provisioning Groups Policies	<ul style="list-style-type: none"> • Create and manage protection policies to define target system, protocol, retention, and expiry date. • Backup cloud bank store and Copy cloud bank store features included in Policies.

Table Continued

Category	Items	New features in SSMC 3.4
File Persona	File Shares File Stores Virtual File Servers File Provisioning Groups File Persona Configuration	<ul style="list-style-type: none"> Supports auto synchronize policy from HPE 3PAR SSMC 3.4. <p>NOTE: The File Provisioning Group (FPG) is not supported if both auto synchronize and auto failover is enabled.</p> <ul style="list-style-type: none"> Automatic switchover when you perform a failover operation on the attached Remote Copy Group when the auto synchronize option is enabled. Display warning messages when you select Failover Remote Copy group option from the Action menu in File Provisioning Group. Display auto synchronize status for the attached Remote Copy Group. Compliance admin path auditing provides an audit log of the compliance commands issued on VFS. All the commands under dual sign-on will be audited and auditing is implicit when the compliance is enabled. The audit logs are created on per VFS basis. View and delete the admin audit log file. <p>NOTE: User is permitted to delete .zip file only. You cannot delete .log file.</p> <ul style="list-style-type: none"> View the list of admin audit log files. Pushbutton to support failover for the groups having path management enabled.
Storage Optimization	Adaptive Flash Cache Adaptive Optimization Priority Optimization	—
Data Protection	Remote Copy Configurations Remote Copy Groups RMC Credentials Restore Points	The <i>Auto synchronize policy</i> enabled for Remote Copy Groups.
Storage Systems**	Systems** Controller Nodes** Ports** Drive Enclosures** Physical Drives**	<ul style="list-style-type: none"> The <i>Analytics</i> view provides information about the performance and saturation of the storage system. In <i>Advanced Analytics</i>, read and write throughput observations that are noted at 5-minute intervals are reported as column charts.

Table Continued

Category	Items	New features in SSMC 3.4
Federation	Federation Configurations Peer Motions	Email on completion of Start Peer Motion.
System Reporter**	Reports** Threshold Alerts**	<ul style="list-style-type: none"> • The <i>Advanced Analytics</i> of the selected system identifies performance impact over a selectable period for throughput and IOPS for read and write workloads, separately. • The <i>Advanced Analytics</i> identifies volumes that have unusually high latencies and IOPS. • The <i>Analytics</i> of the selected system identifies resource utilization and performance impact over a selectable period. • The <i>Schedule email</i> option enables you to configure email recipients for each report. • The <i>save</i> option enables the update of any changes made using the interactive menu to the self-authored reports instead of navigating to the Edit Reports dialog. • The <i>save as</i> option enables you to create a report with the changes to the interactive menu in the public or system generated report. • An <i>Email recipients</i> field enables you to configure email recipients for each threshold alert.
Security**	Users** LDAP Roles Connections Domains	Improved security and manageability.
VMware	Storage Containers Virtual Machines	—
Other	User Interface	<ul style="list-style-type: none"> • Adds a <i>Print this page</i> feature to the online help. • Includes content snippets in the Online Help search results. • Changes to the Administrator Console include: <ul style="list-style-type: none"> ◦ From the Administrator console, you can upgrade SSMC. It is not required to remove Storage Systems from SSMC during upgrade.

Update recommendation

Recommended

Supersede information

Supersedes: HPE 3PAR StoreServ Management Console 3.3.

Products

- HPE 3PAR StoreServ 7000 Storage Series
- HPE 3PAR StoreServ 8000 Storage Series
- HPE 3PAR StoreServ 9000 Storage Series
- HPE 3PAR StoreServ 10000 Storage Series
- HPE 3PAR StoreServ 20000 Storage Series

SSMC 2.2 and later allows you to connect and manage a maximum of 32 3PAR StoreServ Storage arrays.

To access the most current information, see [Accessing SSMC information in SPOCK](#).

! **IMPORTANT:** Hewlett Packard Enterprise Company (HPE) respects your privacy. Where appropriate, HPE applications have been and will continue to be revised to provide you with the appropriate notice of what personal information we are collecting from you, how we are using this personal information, and allow you the choice to share or not share this personal information with HPE. To learn more about HPE privacy practices, including the personal data we collect, use, disclose and transfer as well as choices you can make and rights you can exercise in relation to your personal data, please visit [HPE's Privacy Statement](#).

SSMC compatibility and interoperability

For the most current and detailed information on supported browsers, server models, firmware, and operating systems, see [Accessing SSMC information in SPOCK](#).

Accessing SSMC information in SPOCK

Procedure

1. Log on to SPOCK (<https://h20272.www2.hpe.com/spock/>) from any browser.
2. View the left navigation pane of the SPOCK home page, and scroll down to the Software heading.
3. Click **Array SW: 3PAR**.
4. View the 3PAR Array Software window and scroll down to the HPE 3PAR Operating System Software: Array Software heading.
5. Under HPE 3PAR StoreServ Management Console, click **HPE 3PAR SSMC**.

Supported HPE 3PAR Operating Systems for SSMC

- HPE 3PAR OS 3.2.1 and all MUs (HPE 3PAR StoreServ 7000 and 10000 storage arrays)
- HPE 3PAR OS 3.2.2 and all MUs (HPE 3PAR StoreServ 7000, 8000, 10000, and 20000 storage arrays)
- HPE 3PAR OS 3.3.1 and all MUs (HPE 3PAR StoreServ 7000, 8000, 9000, 10000 and 20000 storage arrays)

To access the most current information, see [Accessing SSMC information in SPOCK](#).

Supported browsers for SSMC

The following browsers are supported when connecting to the HPE 3PAR StoreServ Management Console (64-bit preferred):

- Microsoft Internet Explorer
- Microsoft Edge
- Google Chrome
- Mozilla Firefox

To access the most current version information, see [Accessing SSMC information in SPOCK](#).

NOTE: HPE recommends the use of Google Chrome for better usability and performance of SSMC.

Supported proxy settings for SSMC

When connected to Internet, SSMC supports proxies with HTTPS v1.2 only. The Socket Secure (SOCKS) proxy is not supported by SSMC.

Languages

SSMC supports English, German, Japanese, and Simplified Chinese languages.

Prerequisites

Procedure

1. Before deploying SSMC appliance verify the SSMC compatibility and interoperability requirements.
2. Verify that your CPU size and memory cores are sufficient for your purposes (see Server sizing information).
3. Set up security for SSMC using Security settings for SSMC.

More information

[SSMC compatibility and interoperability](#) on page 8

[Security settings for SSMC](#) on page 11

System requirements

Minimum system requirements include:

- With SSMC virtual appliance, HPE support deploying SSMC only on hypervisors (not operating systems). The following hypervisors are supported:
 - VMware ESXi versions 6.0, 6.5, 6.7.
 - Microsoft Hyper-V Server 2012 R2, Microsoft Hyper-V Server 2016.
- For information on server sizing, see **Server sizing information**.
- Federation membership and compatibility require the following:
 - 3PAR Operating System 3.2.2 or later.
 - Peer Motion, Storage Federation, and Online Import licenses.
 - Cabling and port configuration requirements (see **HPE Storage Information Library**).

! **IMPORTANT:** A storage federation can be managed by a single SSMC instance only.

- HPE Recovery Manager Central (RMC) compatibility with HPE 3PAR SSMC requires the following prerequisites to be met:
 - Install HPE 3PAR Operating System 3.2.2 or later.
 - Configure SSMC and RMC on the same HPE StoreServ Storage System.
 - Verify that SSMC can connect to RMC using HTTP.
 - Create protection policies in RMC.

NOTE:

- You can add up to four HPE RMC instances through **RMC Credentials** in HPE 3PAR SSMC.
- Currently SSMC supports RMC 5.x.x versions.

For details, see *HPE Recover Manager Central (RMC)* documentation in the HPE Storage Information Library.

More information

[Accessing SSMC information in SPOCK](#) on page 8
HPE Storage Information Library

Server sizing information

Following are the necessary server sizing considerations when deploying SSMC:

Deployment configuration	Number of managed arrays	Number of managed objects	Number of managed vCPUs	System memory
Small	8	128 K	4	16 GB
Medium	16	256 K	8	32 GB
Large	32	500 K	16	48 GB

Security settings for SSMC

For detailed information about certificate authority, two-factor authentication, and FIPS, see *HPE 3PAR StoreServ Management Console Administrator Guide* and the *HPE 3PAR StoreServ Management Console User Guide*.

More information

[HPE Storage Information Library](#)

SSMC LDAP settings

The LDAP server is an authentication method used to connect to a 3PAR StoreServ Storage System array. You can use HPE 3PAR SSMC to configure LDAP authentication on your StoreServ arrays.

SSMC uses information in an LDAP server to authenticate and authorize LDAP users. When multiple storage servers use the same LDAP server, authorized users can use the same credentials to access all servers with the same LDAP configuration.

The HPE 3PAR OS contains an LDAP client that you can configure to use an LDAP server for authentication and authorization of storage system users.

To configure LDAP settings in SSMC, see *HPE 3PAR StoreServ Management Console User Guide*.

Next Generation Performance Analytics

The next generation performance analytics allows you to gauge the system performance in dimensions of Storage Saturation, Storage system performance, and other analytics. This analytics mainly helps to diagnose the cause for any performance issues faced in your environment, and hence helps in arriving at solutions. For example, moving the workload to another array if the analytics show that an array is saturated, more than the capacity that it can handle.

For more information, see *HPE 3PAR StoreServ Management Console User Guide*.

HPE InfoSight in SSMC

SSMC integration with HPE InfoSight enables you to get access to predictive analytics done in HPE cloud. This enables you to know about problems, such as data availability or data loss issues, and performance degradation that are likely to occur shortly by having the HPE InfoSight cloud based service analyze the HPE Storage system logs. The HPE InfoSight service does this by running machine learning algorithms and community benchmarks to arrive at various insights that are made available to the SSMC storage administrator to act upon. The repertoire of intelligence grows in HPE InfoSight and new anomalies (signatures) are detected gradually, making it a powerful tool in Storage Administration.

For more information on configuring HPE InfoSight in SSMC, see *HPE 3PAR StoreServ Management Console Administrator Guide* and *HPE 3PAR StoreServ Management Console User Guide*.

SSMC deployment as virtual appliance

SSMC is available only as a virtual appliance from 3.4 release onwards.

The SSMC appliance is a pre-configured virtual machine runs on Debian Operating System. SSMC appliance packages multiple SSMC services such as advanced analytics and elastic search into a single virtual appliance and reduces the deployment complexity to customers. The SSMC deployment architecture leverages high availability functionality offered by hypervisors.

The SSMC appliance removes undue focus to support different environments. For example, Microsoft Windows, Linux, Patches, Anti-virus, and Hardening.

The SSMC Virtual appliance software is provided in an Open Virtual Format (OVF) for VMware vSphere hypervisor and self-extractable Virtual Hard Disk (VHD) package for Microsoft Hyper-V. The SSMC appliance is supported on Microsoft Hyper-V (Windows Server 2012 R2 or 2016) and the VMware vSphere hypervisor (VMware ESXi 6.0 or 6.5 or 6.7).

Migrating from Installer based SSMC deployment to SSMC appliance

Prerequisites:

- Only administrator or root user can initiate migration.
- Ensure that the appliance is reachable from the source SSMC machine.
- Only migration from SSMC 3.2 and 3.3 to SSMC 3.4 is allowed. Migration cannot be performed from versions prior to SSMC 3.2. If the SSMC is not at the minimum version required, you must upgrade SSMC before migration.

SSMC is available only as a virtual appliance from 3.4 release onwards. If you intend to migrate from an earlier SSMC deployment, use the HPE 3PAR SSMC migration tool.

HPE 3PAR SSMC migration tool is a separate installer available for Windows and Linux environments. Install and run the migration tool from the same machine or VM which currently hosts the older SSMC instance.

To allow inbound communication from a browser, SSMC uses inbound port 8443 (default).

CAUTION:

- Do not set administrator credentials or any credentials on SSMC appliance before migration. If you set the administrator credentials, then the migration fails. Migration service always verifies the credentials or settings on SSMC. If any configuration exists prior, then migration fails. The migration failure status will be notified to user.
- When prompted by migration tool, use the same password you provided for ssmcadmin user while deploying SSMC appliance.
- The SR reports stored in the custom path is stored in the directory `/var/opt/hpe/ssmc/data/persist/scheduledreports/users/`.
- If you clear already defined administrator credentials and in case if you perform migration again then the settings on the appliance will be modified.

The following table depicts the migrated and nonmigrated components by using HPE 3PAR SSMC migration tool:

Migrated components	Nonmigrated components
SSMC administrator credentials	Logs
SSMC configured arrays and their credentials	SSMC port configuration (always 8443 in appliance)
SR reports	SR reports custom path
HPE 3PAR RMC configurations	
CA-signed certificates	
FIPS mode configuration	



WARNING: Migration might replace any CA-signed certificate that is configured at the target appliance. HPE recommends configuring CA certificate on the appliance only after the migration. If you configure CA-signed certificate in the appliance before migration, then you might need to configure CA certificate again.

To configure CA-signed certificates for SSMC, see *HPE 3PAR StoreServ Management Console Administrator Guide*.

HPE 3PAR SSMC migration is a two-step process. In the first step, the SSMC configuration is migrated and the target appliance is usable, except for functionality of viewing previously generated SR reports. In the second step, the user is prompted to migrate SR reports. The SR reports migration is initiated once the user selects SR migration.

NOTE: The SR reports migration might take longer time based on the cumulative size of reports. If this migration fails due to network disruption or reboot, rerun the migration tool. The SR reports migration resumes for those reports which were not migrated due to the failure.

The HPE 3PAR SSMC migration tool is available for Windows and Linux environments, and includes separate instructions for migration.

- Migrating a Windows based SSMC deployment to new SSMC appliance
- Migrating a RHEL based SSMC deployment to new SSMC appliance

For more information on migration, see *HPE 3PAR StoreServ Management Console Administrator Guide*.

Upgrade considerations for SSMC appliance

Prerequisites

Take backup of SSMC appliance on the event of upgrade failure. This backup helps to restore SSMC instance during data corruption or data loss.

- Upgrade will restart SSMC services. HPE recommends you to plan for downtime carefully.
- Downgrade is not supported.
- SSMC appliance upgrade is supported for releases starting from SSMC 3.4.

For more information on upgrade considerations for SSMC appliance, see *HPE 3PAR StoreServ Management Console Administrator Guide*.

Fixes

This version fixes the following issues:

Issue ID	Issue description
235356, 235471	<p>Following issues observed after an OS upgrade (upgrade to HPE 3PAR OS 3.3.1 MU2).</p> <ul style="list-style-type: none"> • System returns an HTTP 500 error after selecting a cluster in Remote Copy Configurations page. • Missing information on Virtual Machines of a storage system which was upgraded to HPE 3PAR OS 3.3.1 (MU2).
220040	SSMC search does not find an RMC created protection policy.
234929	<p>This version includes several security fixes including but not limited to:</p> <p>CVE-2018-2579 CVE-2018-2588 CVE-2018-2599 CVE-2018-2602 CVE-2018-2603 CVE-2018-2618 CVE-2018-2629 CVE-2018-2633 CVE-2018-2634 CVE-2018-2637 CVE-2018-2641 CVE-2018-2663 CVE-2018-2677 CVE-2018-2678</p> <p>CVE-2018-2794 CVE-2018-2783 CVE-2018-2798 CVE-2018-2796 CVE-2018-2799 CVE-2018-2797 CVE-2018-2795 CVE-2018-2815 CVE-2018-2800</p>

Known issues and workarounds

- ❗ **IMPORTANT:** HPE 3PAR Remote Copy asynchronous streaming configurations do not support compression. Do not use the asynchronous streaming replication mode with compressed volumes.

Reports:

- When a user schedules a report, the owner shown in the activity when the schedule is triggered displays the username of the person who added the array to SSMC.
- Capacity reports are not supported for 3PAR StoreServ systems that are in different time zones.
- Export to PDF and Scheduled report PDF is not supported for Histogram reports with Access Count Percentage Area charts.

- Compare with report provides meaningful data only when comparing systems running the same 3PAR Operating System version. Some versions include changes in the supported metrics/options.
- For Specific time data, `Next` and `Previous` options for the Hires sampling interval is always fixed to 5 minutes, regardless of the Hires sampling interval set in On Node SR.
- Creating reports that request more than 20k in records results in an RHS report of `No Data to display`. Scheduled tasks that request more than 20k in records will fail. Instead, use filtering to narrow the request.

Threshold alerts:

- Threshold alert editing is not supported for alert rules created using either the CLI or SSMC and then modified using the CLI. Use the 3PAR CLI client to edit alerts.
- Threshold alerts created using the CLI with options that SSMC does not support might not include the proper details in the overview. Use the 3PAR CLI client to view these alert parameters.

General issues

Issue ID	Issue	Description	Corrective Action
122152	Removing File Services from SSMC fails.	Attempting to delete VFS and File Stores fails.	When attempting to remove all File Services components from SSMC, delete the File Persona Groups from SSMC. This causes removal of all child objects at the same time.
122178	Moving quarantined files succeeds, but the activity reports a failure.	The activity resulting from using the Manage Anti-virus Quarantine to move quarantined files can report a failure even though the files were moved. This happens because the permissions for the moved files could not be preserved after the move.	Verify whether the quarantined files were moved despite the error being reported. Examine the permissions for the moved files to make sure that they are correct.
122205	Sometimes the Actions menu is not visible.	The Actions menu might not be visible when you expand the left list pane and have either the filters or the activity side bars displayed.	Do not expand the left list pane, use a higher screen resolution, or expand the browser window size.
122838	Create/Edit report dialog always uses the local time zone of the browser.	When the StoreServ Storage system and the SSMC browser are in different time zones, the user cannot directly enter the StoreServ time during custom time report generation.	Manually convert the StoreServ time to local browser time and enter the converted time as custom time.

Table Continued

Issue ID	Issue	Description	Corrective Action
124078	<p>Failure messages, including the following variations, occur when editing or creating file objects.</p> <ul style="list-style-type: none"> Failed: <code>status=500,exception</code> Failed: unmatched open brace in list Failed: list element in braces followed by "\" instead of space FAILED : Command contains unprintable characters: 	<p>Creating and editing FPG, VFS, File Store, or File Share with special characters in the comment field can cause the creation or edit to fail or cause the comment to display incorrectly.</p>	<p>Avoid using special characters in comment fields.</p>
127408	<p>Deleted report objects continue to show in report.</p>	<p>After generating a report with specific object selections, and then deleting all selected objects, the report still displays data for all objects.</p>	<p>Delete the report at the same time as you delete the selected objects, and then create a report with new object selections.</p>
129834	<p>Reports are in a critical or warning state, but no error message was generated.</p>	<p>SSMC might not display an error message if a report enters into a bad state. For example, if the on-node System Reporter service is not running on the array, the report can enter into a bad state, and no error message displays in SSMC.</p>	<p>N/A</p>
136797	<p>Server error occurs when selecting many items in a table.</p>	<p>Selecting more than 99 items in a table can cause a server error.</p>	<p>Refresh browser to clear the error. To avoid this issue, limit your selections to fewer than 99 objects.</p>
138893	<p>System returns a 500 error when rebooting an active node.</p>	<p>When rebooting an active node from the array while on the AFC page of SSMC, the system returns a server 500 error.</p>	<p>Do not reboot the active node of the array while viewing the Adaptive Flash Cache page.</p>

Table Continued

Issue ID	Issue	Description	Corrective Action
139231	Map view does not behave correctly when using a touch-screen device.	When using touch control in Map view, tablet users cannot hover over an object to see its information. A slight touch on that object while hovering takes the user to a different screen.	Use a desktop browser or an external pointing device.
139556	Local language font issue.	Currently only English and Japanese fonts are available in SSMC.	---
144309	Host Explorer table does not show all hosts.	If a user removes a host name that belongs to the cluster, the SSMC Add FC dialog might not show all the hosts related to the cluster host.	Create the cluster host using the WWNs related to the cluster hosts.
146347	Unable to see information after exporting volumes.	When exporting volumes, SSMC does not always show Multipathing, FailedPathPolicy, and MonIntervalSecs data from the RHS Volume Exports table.	None.
156636	Two Federations listed with the same name in SSMC.	SSMC server cannot prevent users from creating Federation configurations with the same name on different arrays. Auto-detect discovers Federations on different arrays and displays them in SSMC where users might see Federations with the same name on different arrays.	Use unique Federation configuration names to avoid confusion. If you discover a duplicated Federation name, change one of them to a new name.
161249	Current values against which quotas are measured are not updated automatically.	On screens listing user, group, and filestore quotas, the current values against which the quotas are being measured are not being updated.	To refresh quota tables manually, use the Refresh Quotas button.
164738	VMware VVols are showing in the SSMC Virtual Volumes table.	SSMC does not manage VMware VVol objects that reside on the 3PAR array; however, these objects sometimes appear in the SSMC Virtual Volumes table.	The presence of these objects in the table does not cause any issue, and you can safely ignore them.

Table Continued

Issue ID	Issue	Description	Corrective Action
168354	Repeated request for PIN for Two-factor authentication	In some environments, the browser repeatedly requests the PIN to the CaC card/2-factor authentication device.	The browser and smart card middle ware handle PIN prompting. Check to see if the middleware includes an option to cache the PIN. Also, SSMC uses a self-signed certificate for HTTPS communication with the browser. Using a certificate from an issuer that is trusted by the browser might reduce the repeated prompting.
184907 (190807, 193765, 224076)	Receiving an error related to cache within Peer Motion workflow.	If a partial failure occurs while admitting multiple volumes at the same time, Federation is not notified of the failure. This leads to an error message stating that the volume is not found in cache.	Retry the workflow.
186097	Table of Contents in the non-English PDF displays in English.	Localization / Internationalization is not supported for Table of Contents displayed in PDF, so the Table of Contents displays in English for all supported languages.	None.
187321	Seeing no data in Exports section of VVSets RHS. Exports table times out.	The RHS hosts link can time out if the number of active VLUNs increases to 86K when exporting VVSets using ports.	Do not export VVSets to ports that have existing hosts.
190077	Seeing incorrect values from Dedup Estimate Results table.	When estimating dedup savings using the VVol plug-in, the activity details can return incorrect values from the Dedup Estimate Results table.	None.
209577	Seeing an exception/stack trace error from the Dashboard when some systems are selected.	—	Retry the operation by navigating away and returning.
216710	Unable to view some activities after reinstating a lost connection between SSMC the storage system.	After restoring a lost SSMC connection to a storage system, certain application tasks disappear from the Activity page.	—

Table Continued

Issue ID	Issue	Description	Corrective Action
217616	Idle session timeout is not supported for users logged in with 2FA/SSO.	After a session idle timeout, the user session might be reauthenticated without prompting for the 2FA token PIN.	To manually end the session, lock or detach the 2FA token (CAC, Virtual Smart Card, software token), and then close browser windows.
217655	RMC schedules do not match the user-requested schedule.	Created a volume and added protection policies and schedules, but the created schedules are different from the requested schedules.	Ensure that the start time input of the schedule in SSMC is same as the RMC system time. Also, check if any time zone difference between SSMC and RMC when creating schedules using SSMC.
218096	The Peer Motion workflow does not display a warning message when a protected volume is migrated.	Even when a Peer Motion source virtual volume has RMC protection enabled, it is removed if Peer Motion is completed with the <code>Delete source virtual volumes</code> option enabled. Additionally, RMC protection policy is not automatically migrated by Peer Motion.	If source virtual volumes with RMC protection need to retain, disable the <code>Delete source virtual volumes</code> option in the advanced options of the Start Peer Motion dialog. If the destination volume needs RMC protection, configure it after Peer Motion completes.
218444	Filtering on numeric lists is done using text values.	When filtering a list of numeric values, such as CPG Copy Space, the comparisons are done as though the values were text fields and not numerical. For example, the queried value of "23" matches a value in the list of "123".	—

Table Continued

Issue ID	Issue	Description	Corrective Action
220848	SSMC returns a 500 error Unable to access directory path after clicking the Test directory path button.	<p>SSMC running in FIPS enabled mode requires the updated shared directory path setting in the <code>java.policy</code> file to enable the System Reporter shared directory path.</p> <hr/> <p>NOTE: Irrespective of SSMC running in FIPS mode or not, update the <code>java.policy</code> file as per the shared directory path.</p> <hr/>	<p>Update the System Reporter shared directory path setting in the <code>java.policy</code> file. Provide read/write/delete access permission for the directory, and then restart SSMC to apply the new policy.</p> <hr/> <p>The custom configured share directory path in SSMC is not accessible until you grant permission in <code>java.policy</code> (Security manager).</p> <hr/> <p>When configuring the shared directory path in System Reporter global settings, you must also add that directory/path permission entry in the Java Security Manager (<code>/opt/hpe/ssmc/jre/lib/security/java.policy</code>). Changing this setting requires restarting SSMC before it takes effect.</p> <hr/> <p>NOTE: To configure the shared directory path, create the directory under <code>/home/ssmadmin</code>. The SSMC administrator has to provide appropriate permission to the new directory path <code>chmod 777/home/ssmadmin/DirectoryName</code>. The Directory name refers to the new directory that is created by the administrator.</p> <hr/>
222742	After upgrading from SSMC 3.1 or earlier to SSMC 3.2 or later, SSMC is unable to start.	When SSMC 3.1 has custom passwords for the key and trust stores set in <code>jetty-ssl-context.xml</code> , upgrading to SSMC 3.2 or later does not preserve custom key store and trust store passwords.	After upgrade from SSMC 3.1 or earlier, update any custom password in the <code>jetty-ssl-context.xml</code> file. Upgrades from SSMC 3.2 to 3.3 or later are not affected by this issue.

Table Continued

Issue ID	Issue	Description	Corrective Action
227619	System returns a Failed:timed out error message.	The Failed:timed out that an action has timed out, or that the action is still in progress and might complete at a later time. This time out condition can occur when the system is busy.	Check the result of the initiated action and retry it if needed.
227621	Editing threshold alert email notification, the Activity shows in RED even though the edit operation is successful.	On editing email notification of threshold alerts, the Activity status turns to RED even though the updated values are reflected or updated on threshold alerts.	None.
230914	SSMC is unable to fetch data from SFRM website.	SSMC can be configured to require validation of the SFRM website certificates. In some cases, it is necessary for the customer to provide the proper CA-signed certificates for the SFRM website, such as, after an upgrade from an earlier version or if the certificates have been changed on the SFRM website itself.	None.
236094	In SSMC, across all modules if user clicks dialog (Create or Edit page) and if user clicks the ENTER key from the keyboard to submit the form page, SSMC reloads, and redirects to the dashboard page with all the dialogs (Create or Edit page) parameters displayed on the URL.	This issue is observed in Internet Explorer under following environments: <ul style="list-style-type: none"> Internet Explorer 11 on Windows 2012 R2 and Windows 2016 R2 servers. Internet Explorer Enhanced Security Configuration is enabled. When <code>about:blank</code> internal IE page is not added to IE Enhanced Security Configuration trusted zones. 	<ul style="list-style-type: none"> Use supported browser like Google Chrome or Mozilla Firefox. Turn off IE Enhanced Security Configuration or add <code>about:blank</code> page URL to IE Enhanced Security Configuration Trusted Zones. Use the mouse to click submit button for Create or Edit page in SSMC.

Table Continued

Issue ID	Issue	Description	Corrective Action
237823	Deploying SSMC appliance through VMware vSphere hypervisor (ESXi) 6.5 client does not offer different configuration modes.	By default, the appliance deployment shows all the configuration modes available for appliance (Small, Medium, and Large). But if you deploy appliance on ESXi 6.5 General Availability (GA) and ESXi 6.5 U1 OS versions, client does not offer different configuration modes and the appliance will be deployed with Small configuration only.	Use VMware vSphere hypervisor (ESXi) 6.5 Update 2 or later versions for deployment.
242192	SSMC may report saturation levels that exceed 100%.	The preferred throughput is an indicator of the optimal threshold. The storage system is expected to perform appropriately when the saturation is within the optimal threshold. However, the system could still deliver more inputs or outputs per second beyond this level but the latency would be high.	None.
243942	Configuring Hyper-V appliance with Static IP from TUI fails for the first time.	This occurs when you configure network within 90 seconds after powering on the system and configuring DHCP network takes time. This issue is observed only during the first appliance boot after the deployment. It is not observed on subsequent booting as we do not perform any network configuration.	Perform network configuration after 90 seconds.
244097	Connections to all Storage Systems have been lost. Storage system connections can be managed by logging into the administrator console.	This occurs when Advanced system performance and analytics reporting enabled is enabled and at least one of the arrays connected to the SSMC is experiencing Too many CLI connections.	Verify and bring down the number of clients making CLI connections to that array and restart SSMC service using TUI.

Table Continued

Issue ID	Issue	Description	Corrective Action
245387	Having a system not configured for Two-factor authentication in SSMC Administrator Console can cause SSO failure.	—	Ensure that the Two-factor authentication is configured properly on all systems in SSMC Administrator Console. Because even a single misconfiguration might affect the functionality of SSO login.
246210	SSMC server does not come up sometimes.	During the first appliance boot or when there are network configuration changes done through TUI, SSMC server might fail to start, or unable to open the ports correctly. Hence SSMC remains unreachable from the browser.	Restart all SSMC services.
246300	Http 500 error on Performance view of Systems or Reports panel.	This issue occurs occasionally if any of the on-node System Reporter service responses is not valid. This issue is observed on Performance view of Systems or Historical Reports.	Refresh the browser page to reload the performance view or historical reports data.
244896	Saturation and Advanced Analytics reports are supported for Block IO only.	—	Support for File IO will be added in future release.

Table Continued

Issue ID	Issue	Description	Corrective Action
—	High latency being reported on iSCSI port.	If the Storage System is configured with iSCSI port, then there is a known issue with the latency being reported on iSCSI port, when the number of IOPs on the ports are small. So, the performance score might be closer to 10.	—
—	When SSMC is managing 32 all flash arrays (fully loaded), there is a possibility of following occurrences: <ul style="list-style-type: none"> • Gap in high-resolution performance and saturation analytics graphs due to sequential data collection. Interval between data points can be approximately 10 to 15 minutes. • Performance and saturation data can have a lag of up to one hour. 	—	As an alternative, select Storage Systems > Systems > Analytics > Hires > Hourly . Minimize the number of all flash arrays to less than 10, to avoid the data gap and time lag while reporting.

Related information

The latest documentation for SSMC is available from the Hewlett Packard Enterprise Information Library. Available documents include:

- *HPE 3PAR StoreServ Management Console Administrator Guide*
- *HPE 3PAR StoreServ Management Console User Guide*
- *HPE 3PAR Command Line Interface Administrator's Manual*
- *HPE 3PAR StoreServ Storage Concepts Guide*
- *HPE 3PAR Peer Motion and HPE 3PAR Online Import User Guide*
- *HPE 3PAR File Persona User Guide*

Documentation feedback

Hewlett Packard Enterprise is committed to providing documentation that meets your needs. To help us improve the documentation, send any errors, suggestions, or comments to Documentation Feedback (docsfeedback@hpe.com). When submitting your feedback, include the document title, part number, edition, and publication date located on the front cover of the document. For online help content, include the product name, product version, help edition, and publication date located on the legal notices page.