



Hewlett Packard
Enterprise

HPE SSMC 3.6 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 3.6.

Part Number: QL226-10608
Published: September 2019
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 SSMC 3.6 Release Notes4**
- Description..... 4
- Update recommendation..... 4
- Supersede information..... 4
- Products..... 4
- Accessing SSMC information in SPOCK..... 5
- Operating systems..... 5
- Compatibility and interoperability..... 5
- Languages..... 5
- Proxy settings..... 5
- Browsers..... 5
- HPE Recovery Manager Central compatibility with SSMC..... 6
- New features..... 6
- Fixes..... 14
- Issues and workarounds..... 14
- Related information..... 28
- Documentation feedback..... 29

HPE SSMC 3.6 Release Notes

Description

This release note provides information on the new features, fixes for HPE 3PAR StoreServ Management Console (SSMC) 3.6.

SSMC is a standalone product that installs as a single package. It consists of two consoles: the Administrator Console and the Management 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 Management Console provides access to the features you can use to manage 3PAR StoreServ systems. For documentation related to the Administrator Console, see *HPE SSMC Administrator Guide*. For documentation related to the Management Console, see *HPE SSMC 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](#)

Update recommendation

Recommended

Supersede information

Supersedes: HPE 3PAR StoreServ Management Console 3.5.

Products

This release applies to the following product models:

- HPE Primera 600 Storage Systems
- 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 systems and HPE Primera storage systems.

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](#).

Accessing SSMC information in SPOCK

Procedure

1. Click **SPOCK**.
2. View the left navigation pane of the SPOCK home page, and navigate to the Software.
3. Click **Array SW: HPE 3PAR**.
4. View the 3PAR Array Software window and navigate to the **HPE 3PAR Operating System Software: Array Software**.
5. Click **HPE 3PAR SSMC** in the HPE 3PAR StoreServ Management Console.

Operating systems

- HPE Primera OS 4.0 (HPE Primera 600 Storage)
- 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, and HPE 3PAR OS 3.3.1 Technology Release T05 (HPE 3PAR StoreServ 7000, 8000, 9000, 10000 and 20000 storage arrays)

Compatibility and interoperability

Languages

Languages supported for this release:

- English
- German
- Japanese
- Simplified Chinese

Proxy settings

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

Browsers

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

For more information on the current browser version, see [Accessing SSMC information in SPOCK](#).

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

HPE Recovery Manager Central compatibility with SSMC

You can attach only one protection policy from each RMC instance to the virtual volumes in SSMC from RMC 6.0 release.

New features

SSMC 3.6 includes the new features described in the following table.

Category	Items	New features in SSMC 3.6
General**	Dashboard** Activity** Schedule** Settings**	<ul style="list-style-type: none"> The tooltip for the Top Volume Hotspots by Latency panel display the virtual machines related to the virtual volume. The link in the tooltip allows you to navigate to the virtual machines screen. By default, the virtual machines in the screen are filtered by outlier virtual volume name. A Debug panel is added in the Settings window. This panel displays the settings for debugging. You can enable or disable the topology feature in the Applications panel of the Settings window. A topology enabled field is included in the Applications panel. The default selection for the field is No.
Block Persona	Hosts** Virtual Volumes** App Volume Sets** Common Provisioning Groups Policies	<ul style="list-style-type: none"> You can create snapshot of the virtual volumes associated with the App Volume Set. Use the Create Snapshot option available in the Actions menu of the App Volume Set screen to create snapshots. An Additional settings panel with the Snapshot details is included in Create App Volume Set dialog. You can assign a snapshot policy to the App Volume Set by selecting the available snapshot policy. You can enable or disable Dedup and Compression for the virtual volumes that are created during the creation of an App Volume Set. This feature is supported from HPE Primera OS 4.0 and later. A Dedup and Compression field is introduced to enable and disable compression and deduplication in the Create and Convert Virtual Volume dialog. You can enable or disable the dedup and compression option with a single selection. This option is available from HPE Primera OS 4.0 and later. RAID 6 is the only supported RAID type for HPE Primera OS 4.0. You can enable RAID 1 using a command through CLI. The Set Size option 2 is not available for RAID 1. The Policy field which appears along with the selection of Advanced option in the Create Virtual Volume dialog prevents you to make a selection. This option is available from HPE Primera OS 4.0 and later. The storage systems support only Thin Provisioned and DECO (dedupe and compressed) virtual volumes from HPE Primera OS 4.0 and later. If a snapshot policy is already assigned to the associated App Volume Set, you cannot assign a snapshot policy to the virtual volumes associated with that App Volume Set. The Overview detail pane of the Virtual Volumes screen displays the schedule details of the assigned protection policy. The Overview detail pane view of the Virtual Volumes screen displays the number of virtual machines associated with the virtual volumes. The General panel of the Overview detail pane displays the number of Virtual Machines associated to a virtual volume with links.

Table Continued

Category	Items	New features in SSMC 3.6
		<ul style="list-style-type: none"> • The schedule details are included in the Protection policy with the HPE RMC 6.0 release. The details are set when you create the HPE RMC 6.0 policies. The following fields are removed from the Add or Edit Policy dialogs for the HPE RMC 6.0 instances: <ul style="list-style-type: none"> ◦ Schedule ◦ Schedule name ◦ Schedule description <hr/> <p>NOTE: You can edit a protection policy only from Recovery Manager Central with the HPE RMC 6.0 release.</p> <hr/> <ul style="list-style-type: none"> • You cannot assign more than one protection policy from the same HPE RMC 6.0 instance to a virtual volume. Multiple policies from different HPE RMC instances are allowed. • The Overview detail pane of the Policies screen displays Properties panel for the HPE RMC 6.0 policies. This panel displays information about the selected HPE RMC 6.0 protection policy. <hr/> <p>NOTE: RMC 6.0 doesnot support HPE Primera storage systems.</p> <hr/> <ul style="list-style-type: none"> • HPE 3PAR SSMC supports only snapshot and protection policies from HPE Primera OS 4.0 and later. You cannot create virtual volume templates in the Create Policy and Save as Policy dialogs. • You can promote snapshot on a Virtual Volume set using the Promote snapshot from the Actions menu. This action overwrites the data on the parent or base virtual volume with the snapshot data. • The virtual volume policies are not supported on HPE Primera OS 4.0 and later.
File Persona	File Persona Configuration	<p>The following fields are included in the SMB settings panel of the Manage Protocol Settings dialog:</p> <ul style="list-style-type: none"> • Allow SMB1 connections • SMB1 Active Directory connections <p>You can enable or disable the options. For security reasons, SMB1 is disabled by default for newly configured File Persona instances.</p>

Table Continued

Category	Items	New features in SSMC 3.6
Storage Optimization	Priority Optimization	<ul style="list-style-type: none"> <li data-bbox="727 184 1507 239">• In the Create priority optimization policy dialog, the App Volume Set is also included as an option in the target type drop-down selection. <li data-bbox="727 268 1507 359">• If you select the target type as App Volume Set, the Edit priority optimization policy dialog displays the App Volume Set in the Target type field. <li data-bbox="727 388 1507 443">• The table showing the priority optimization policies in the Delete dialog displays the target type as App Volume Set based on your selection. <li data-bbox="727 472 1507 527">• The table showing the priority optimization policies in the Disable dialog displays the target type as App Volume Set based on your selection.

Table Continued

Category	Items	New features in SSMC 3.6
Data Protection	Remote Copy Configurations**	<ul style="list-style-type: none"> The Targets view in the detail pane displays whether the mirror policy is enabled on the Remote Copy configuration.
	Remote Copy Groups**	<ul style="list-style-type: none"> The Targets view in the detail pane displays the Quorum witness version of the Remote Copy configuration.
	RMC Instances**	<ul style="list-style-type: none"> Quorum Witness IP is displayed as QW server in the HPE 3PAR SSMC UI.
	Restore Points**	<ul style="list-style-type: none"> You can provide either the IP address or the Fully Qualified Domain Name (FQDN) of QW Server in the Configure Quorum Witness dialog. If you enable Secure Connection in the Configure Quorum Witness dialog you can enter the port details while configuring QW. An Existing Quorum Witness Certificates panel is introduced in the Configure Quorum Witness dialog. This panel displays the existing QW certificates in the tabular format. You can add more than one target in the Remote Copy configuration. Add Target option is included in the Actions menu. This feature enables multiple port utilizations. You can use different targets for different mode selections. A Manage Quorum Witness Certificates action is included in the Actions menu. You can generate a Certificate Signing Request (CSR) to import a certificate or import a downloaded certificate to the storage system. A check box option is available in Remove Quorum Witness dialog to remove existing QW client and QW server certificates from the storage system. The certificates are a part of the Remote Copy configuration. You can perform the Start and Stop operations on a Remote Copy group, even if the target system is not connected in HPE 3PAR SSMC. RMC credential is renamed to RMC Instances in the HPE 3PAR SSMC UI. RMC Instance IP address and version details are displayed in the General panel of the Overview detail pane. A Target panel is added in the Overview detail pane of Restore Points screen. This panel displays information about backup storage system. The Target panel is displayed only for the HPE RMC 6.0 protection restore points.
		<hr/> <p>NOTE: RMC 6.0 doesnot support HPE Primera storage systems.</p> <hr/>

Table Continued

Category	Items	New features in SSMC 3.6
Storage Systems	Systems** Controller Nodes** Ports** Drive Enclosures** Physical Drives**	<ul style="list-style-type: none"> • HPE 3PAR SSMC 3.6 supports the Serviceability functionality only with the HPE Primera OS 4.0. The Serviceability functionality in HPE 3PAR SSMC requires the WSAPI service to be running. • Serviceability view is included in the List view menu. The view provides information about: <ul style="list-style-type: none"> ◦ Storage system ◦ Telemetry status ◦ HPE 3PAR OS version ◦ Available updates ◦ Update progress • The Health panel in the Overview pane, displays: <ul style="list-style-type: none"> ◦ Telemetry status ◦ Telemetry details • You can edit Remote Support Configuration details in the Edit dialog available on the Actions menu: <ul style="list-style-type: none"> ◦ Send remote support data to HPE ◦ Allow software downloads ◦ Allow remote access to HPE support ◦ Receive update recommendations ◦ Remote support proxy • The Remote Support Configuration panel of the Settings pane displays the remote support settings for the storage system. You can edit the Remote Support configuration options from this panel. • You can perform the following operations from the Actions menu on the Systems screen: <ul style="list-style-type: none"> ◦ Check health ◦ Update HPE 3PAR OS ◦ Update firmware ◦ Collect support data ◦ Reboot ◦ Shutdown ◦ Restart call home service • The Software detail view displays information about the available updates. You can install the updates from the Software Detail pane.

Table Continued

Category	Items	New features in SSMC 3.6
		<ul style="list-style-type: none"> • A Diagnostics view is included in the detail pane view of the Systems screen. Diagnostics checks the status of storage system hardware and software components and reports any issues. HPE 3PAR SSMC runs the Check health command on the storage system in the background every four hours. The health information is collected and displayed in the Diagnostics view. • The Systems screen displays the storage systems temporarily disconnected due to: <ul style="list-style-type: none"> ◦ Exceeding the number of CLI connections ◦ Certificate expiry issue ◦ Invalid credentials ◦ Certificate acceptance required ◦ Lost connection • The Health panel in the Overview detail pane displays the reason for disconnection of the storage system in the Details field. The State field displays the connection status. • The Actions drop-down provide a link to the Administrator console for the disconnected storage system. You can navigate to the Administrator console and take corrective actions. • You can set Service Processor credentials using the option Set SP credentials in the Actions menu. You can set up the Service processor for each storage system in HPE 3PAR SSMC. • The General panel of the Overview detail pane displays the Service Processor configured for the storage system. • The Analytics detail pane view displays Virtual Machines associated to the top five volume outliers with links. • The additional information about the top five volume outliers indicates whether a Virtual Machine is associated to the virtual volume. The information appears beside the Top 5 Volumes by Latency and Top 5 Volumes Hotspots by Latency charts. • You can add, edit, or remove a vCenter from the Cross Stack Analytics panel in the detail pane of Settings view in Systems screen. If a vCenter is already added, the panel displays the information about the same. You can perform the actions from the Edit dialog of a storage system also. • The Internal Drive view in the detail pane displays encryption status of internal drives. The Encrypted column in the Internal Drive view displays encryption status on the internal boot drive. • The Schematics view in the detail pane view of the Controller Nodes screen displays the schematic view for all HPE Primera 600 storage systems.

Table Continued

Category	Items	New features in SSMC 3.6
Federation	Federation Configuration Peer Motions	<ul style="list-style-type: none"> • The Schematics view in the detail pane view of the Ports screen displays the schematic view for all HPE Primera 600 storage systems. • The Schematics view in the detail pane view of the Drive Enclosures screen displays the schematic view for all HPE Primera 600 storage systems. • The General panel of the Overview detail pane displays the cabling type in the Zone configuration field. The cabling type is displayed as Daisy chain or Splitcage. The zone configuration also displays any misconfiguration. • The Connectivity panel of the Overview detail pane displays the splitcage port information. • The Schematics view in the detail pane view of the Physical Drives screen displays the schematic view for all HPE Primera 600 storage systems. <ul style="list-style-type: none"> • A Zone view is included in the detail pane view of the Federation Configurations screen. This view graphically displays the federation zoning between fabrics. • You can select multiple Remote Copy groups and trigger the peer motion in HPE 3PAR SSMC. You have to select the Remote Copy groups from same source storage system.
Security		<p>By default, the session expiration time is enhanced to 30 minutes. This default session expiration time is applicable from SSMC 3.6. If you upgrade or migrate SSMC from an earlier version, the new default time will be applicable if the current values of the UI session expiry are left to defaults. Any custom value set by the customer will be preserved as is.</p>

Table Continued

Category	Items	New features in SSMC 3.6
VMware**	Storage Containers Virtual Machines	<ul style="list-style-type: none"> An error message is displayed in the Create Storage Container if the VASA is not enabled on that storage system. A Topology view is included in the detail pane view of the Virtual Machine screen. The view provides the following information for a VMFS virtual machine: <ul style="list-style-type: none"> Virtualized infrastructure view Storage objects hierarchy over a period of time Performance Configuration aspects like health state, saturation, and outliers
Administrator console		<ul style="list-style-type: none"> A Forgot Password link is included in the Administrator console. This option is visible only to the administrators. A Preferences option is included in the Actions menu to edit your preferences (configure SMTP). If the preferences are not configured, message appears requesting you to configure SMTP. Only an administrator has the privilege to configure SMTP.


** Categories and items shown in **Show less** menu.

Fixes

This version fixes the following issues:

Issue ID	Issue description	Resolution
261617	<p>The app volume set created through an SSMC instance for a 3PAR system will appear and can be viewed in other SSMC instances managing the same 3PAR system after 4 hours of app volume set creation. However the app volume set will appear immediately after its creation in the SSMC instance which has created this app volume set.</p> <p>If peer motion action is performed on the associated vvset for an app volume set, then after the successful migration, you can view the corresponding vvset and its volumes in the target array, but the app volume set ceases to exist.</p>	Once the vvset associated with an app volume set is migrated from source array to the target array using SSMC peer motion or peer motion utility, then the app volume set is created in the target array automatically.

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
276055	During an upgrade to SSMC 3.6, additional entries of <code>security.twofactor.enable</code> might append to <code>ssmc.properties</code> file leads to unexpected behavior of SSMC server with respect to two factor authentication.	-	Edit <code>/opt/hpe/ssmc/ssmcbase/resources/ssmc.properties</code> and remove the extra and unwanted entries of <code>security.twofactor.enable</code> .
279919	When you deploy and configure the new SSMC 3.6 virtual appliance and when you enable Topology and/ or Advanced system performance and analytics from the Global settings, then SSMC reports an error and you are unable to save the settings. As a result, you are unable to view the system saturation levels, VM topology, and affected resolution.	-	<ul style="list-style-type: none"> • Clear the browser cache and try after 5 minutes. OR • Leave SSMC idle for ~30 minutes. Login again and try editing settings.

Table Continued

Issue ID	Issue	Description	Corrective Action
279542	Unable to delete vCenter from the SSMC.	This issue might occur when the vCenter name has unsupported characters.	<p>Use only alphabets (a-z or A-Z), numbers (0-9), dot (.), and dash (-) as a special character in the vCenter name.</p> <hr/> <p>NOTE: Donot start or end the vCenter name with dash (-) or dot (.).</p> <hr/> <p>Use edit facility to remove the unsupported characters from vCenter name and then attempt the delete operation.</p>
279137	The special attributes Host Data Integrity Field used to change the DIF settings of a volume is missing in SSMC 3.6 release.	-	<p>Use 3PAR CLI command <code>setvv -f -pol <policy> <vv-name></code> on the array. For example, <code>setvv -f -pol std_host_dif vv1</code>.</p> <p>For more information, see <i>HPE 3PAR Command Line Interface Reference</i> document.</p>
-	A lesser storage space is reported for Estimated free usable CPG capacity in the Create or Edit CPG of an array with the HPE Primera OS 4.0 or later.	When you set the SetSize and Availability to Auto , the space is calculated based on the default SetSize 8 (6 data, and 2 parity) and the cage availability.	-
277514	In virtual volume page, the Add button in Export dialog is unavailable when the virtual volume is restricted to export to one host.	-	Export the virtual volume through host page.
275843	The topology view in the SSMC Virtual Machines page is not updated with the ESXi performance data for extended period. In SP, the array from which the VVs are exported, the VMPEFCO collection does not happen at a 5 minute interval for a long duration.	-	<ol style="list-style-type: none"> 1. Log in to SP of the array. 2. Reboot SP appliance by navigating through actions > reboot.

Table Continued

Issue ID	Issue	Description	Corrective Action
273932	The Virtual Machines > Topology view does not reflect latest data.	In the Virtual Machines page, topology content pane for virtual machines related to HPE Primera 600 storage system might not reflect current data in the banner. If this inconsistency persists for few hours, it may be due to the SSMC has stopped receiving updates from the storage system.	Restart SSMC through TUI.
273895	When the update fails while installing an OS update, the Install button is disabled for that update package.	-	<ol style="list-style-type: none"> 1. Resolve installation issues. 2. Navigate to Systems > Software > Update Overview > Rerun . 3. Click Yes re-run.
273505	Gap appears on the topology content pane of a virtual machine.	SSMC is unable to capture a 5 minute data point for virtualization layer performance from HPE Primera 600 storage system with HPE Primera OS 4.0. As a result gap appears on the topology content pane of a virtual machine.	-
261624	Historical performance and saturation data not plotted or collected for one of the systems.	In the rare scenario where the real-time data collection starts before the historical data collection, the saturation, and performance graphs will not display the historical data.	-
261535	Unable to see saturation insights after the upgrade.	Any system which is upgraded from 3.4 to 3.5 the saturation insights will not be displayed for any data which were collected prior to upgrade. If the getting displayed for the period where the data was collected both prior to upgrade and post upgrade, you will be able to see the insight only on zooming in the time period for the data collected after upgrade.	Zoom in the time period for the data collected after upgrade

Table Continued

Issue ID	Issue	Description	Corrective Action
261390	The tput number provided in the port imbalance insight is incorrect.	This occurs only when there is a port failover. Most likely when the throughput provided in the performance insight is half of the actual throughput.	-
261457	The saturation score deviation between historical and real-time data in SSMC.	The historical saturation graph which is displayed in analytics is an averaged out saturation score in the past 24 hours which will be different from the actual HiRes data which is collected 5 mins which tends to be more accurate. Hence there will be a deviation. This deviation is visible only for the first 24 hours after the fresh install if the user restricts his view to the default settings in the Analytics page.	-
261447	Assigning a snapshot policy to an existing virtual volume fails if the virtual volume belongs to a vvset and the vvset lacks an associated snapshot policy.	-	Use CLI command on the array to create a scheduled snapshot task. The following example creates a schedule with the name schedule1 which runs every hour and expires after a day. This task creates a snapshot of volume vv1 with the name "Parent Volume .Time Stamp". vv1.190219230008 createsched "createsv - exp 24h @vvname@.@y@m@d@H@M@ S@ vv1" "0 * * * *" schedule1
260508	The behavior of multiselection might not be consistent across SSMC.	-	-

Table Continued

Issue ID	Issue	Description	Corrective Action
260090	Sometimes saturation and performance data might not appear when upgrading from 3.4 to newer version.	<p>The issue "ssmc mapdb persist files grow uncontrolled" in 3.4 can lead to disk getting filled up, which can trigger dataserver to go into a locked mode to protect existing data.</p> <p>As a results saturation and performance data are not added into the dataserver.</p>	<p>1. Run the following command to recover the space:</p> <p>Temporary workaround : [applicable ONLY when /var/opt/hpe has still few MBs of free space]</p> <p>Shutdown SSMC service and then restart of SSMC will help flush the persist.dat.t file.</p> <p>TUI menu : option 2 [shutdown and then start again]</p> <p>OR</p> <p>Command line : systemctl stop ssmc systemctl start ssmc</p> <p>2. Run the following curl command after logging into the SSMC appliance,</p> <pre>\$ curl -d '{"index.blocks.read_ only_allow_delete": null}' -H "Content- Type: application/json" -X PUT http:// localhost:9292/_all/ _settings.</pre>
242547	System Analytics unable to process the historic data uniformly.	<p>The System Analytics page on fresh install loads historical data for last 24 hours and since Analytics page depends on collection of High-Resolution data at 5 min granularity. The graph time depends based on the number of records that are available for each system. This is visible only for the first 24 hours after the fresh install if the user restricts the view to the default settings in the Analytics page.</p>	

Table Continued

Issue ID	Issue	Description	Corrective Action
260005	If you upgrade an SSMC virtual appliance from 3.4.x to 3.5.x having system with multiple volume types, you might observe a higher saturation value for the workload in the system.	This behavior is because the accuracy of the saturation algorithm has been improved.	-
251119	Unable to add static routes to the SSMC virtual appliance using IP command.	-	SSMC virtual appliance allows the usage of IP command to perform a variety of routing and policy management functions. For example, if you want to add a static route to a different subnet which cannot access through your default gateway, use this IP command syntax in the SSMC virtual appliance: <code>sudo /sbin/ip route add 10.0.0.112/24 dev eth01.</code>
250993	Unable to configuring multiple DNS servers and IP addresses.	-	To configure multiple DNS servers and IP addresses, use this syntax <code>sudo/ ssmc/sbin/ ConfigDNS.py -d "mgt.domainserver.com corp.domainserver.com lab.domainserver.com" -s <DNS IP1>,<DNS IP2>.</code> NOTE: • Enclose DNS server names within quotes, separated by spaces. • Separate IP addresses by using comma separator.
—	When SSMC is managing 32 all flash arrays (fully loaded), there is a possibility of following occurrences: • 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.

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.	—
244896	Saturation and Advanced Analytics reports are supported for Block IO only.	—	Support for File IO will be added in future release.
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.
246210	SSMC server does not come up sometimes.	During the first SSMC virtual 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.
244327	In SSMC virtual appliance, locate stop on Systems screen does not clear the Drive Enclosure.	On arrays with HPE 3PAR OS 3.3.1 MU3 or later, locate off on the Systems UI does not clear the LEDs on the drive enclosures.	Turn off the locate individually on the corresponding array drive enclosures.
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.

Table Continued

Issue ID	Issue	Description	Corrective Action
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.
237823	Deploying SSMC virtual appliance through VMware vSphere hypervisor (ESXi) 6.5 client does not offer different configuration modes.	By default, the SSMC virtual appliance deployment shows all the configuration modes available for appliance (Small, Medium, and Large). But if you deploy SSMC virtual 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.
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
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.
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.
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.
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 jetty-ssl-context.xml, 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 jetty-ssl-context.xml 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
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> <p>The custom configured share directory path in SSMC is not accessible until you grant permission in <code>java.policy</code> (Security manager).</p> <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/>
218444	Filtering on numeric lists is done using text values.	<p>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".</p>	—

Table Continued

Issue ID	Issue	Description	Corrective Action
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.
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 anytime zone difference between SSMC and RMC when creating schedules using SSMC.
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.
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.	—
209577	Seeing an exception/stack trace error from the Dashboard when some systems are selected.	—	Retry the operation by navigating away and returning.
190077	Seeing incorrect values from Dedup Estimate Results table.	When estimating dedup savings using the VVol plugin, the activity details can return incorrect values from the Dedup Estimate Results table.	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.

Table Continued

Issue ID	Issue	Description	Corrective Action
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.
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.
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 middleware 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.
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.
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.
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.

Table Continued

Issue ID	Issue	Description	Corrective Action
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.
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.
139556	Local language font issue.	Currently only English and Japanese fonts are available in SSMC.	---
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.
138893	System returns a 500 error when rebooting an active node.	When rebooting an active node from the array while on the AFC page of SSMC, the system returns a server 500 error.	Do not reboot the active node of the array while viewing the Adaptive Flash Cache page.
136797	Server error occurs when selecting many items in a table.	Selecting more than 99 items in a table can cause a server error.	Refresh browser to clear the error. To avoid this issue, limit your selections to fewer than 99 objects.
129834	Reports are in a critical or warning state, but no error message was generated.	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.	N/A
127408	Deleted report objects continue to show in report.	After generating a report with specific object selections, and then deleting all selected objects, the report still displays data for all objects.	Delete the report at the same time as you delete the selected objects, and then create a report with new object selections.

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: <code>unmatched open brace in list</code> Failed: <code>list element in braces followed by "\" instead of space</code> 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>
122838	<p>Create/Edit report dialog always uses the local time zone of the browser.</p>	<p>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.</p>	<p>Manually convert the StoreServ time to local browser time and enter the converted time as custom time.</p>
122205	<p>Sometimes the Actions menu is not visible.</p>	<p>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.</p>	<p>Do not expand the left list pane, use a higher screen resolution, or expand the browser window size.</p>
122178	<p>Moving quarantined files succeeds, but the activity reports a failure.</p>	<p>The activity resulting from using the Manage Antivirus 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.</p>	<p>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.</p>
122152	<p>Removing File Services from SSMC fails.</p>	<p>Attempting to delete VFS and File Stores fails.</p>	<p>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.</p>

Related information

The latest documentation for SSMC is available from the Hewlett Packard Enterprise Information Library.

Available documents include:

- *HPE SSMC Administrator Guide*
- *HPE SSMC 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*
- *HPE Primera OS 4.0 Command Line Interface Reference Guide*
- *Migrating data from HPE 3PAR to HPE Primera*

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.