

Dell Storage Manager 2016 R3 Release Notes

Dell Storage Manager allows an administrator to manage and monitor multiple Storage Centers, PS Series groups, FluidFS clusters, and Fluid Cache for SAN clusters. Dell Storage Manager 2016 R3 introduces new features and enhancements, and fixes issues present in the previous release.

Revision History

Revision	Date	Description
A	February 2017	Initial release of Storage Manager 2016 R3
B	February 2017	General fixes
C	May 2017	Release of Storage Manager 2016 R3.10
D	June 2017	Update for SC5020
E	July 2017	Update for Storage Center 7.2.11

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Management Compatibility

Storage Manager manages Dell storage products and also provides management integration for Microsoft and VMware products. Storage Manager is compatible with the products listed in the following table.

Product	Versions
Dell Storage Center	Storage Center versions 6.5–7.2
PS Series group firmware	7.0–9.1
Dell FluidFS	4.0–6.0
Microsoft System Center Virtual Machine Manager (SCVMM)	2012, 2012 SP1, 2012 R2, and 2016
VMware vCenter Site Recovery Manager (SRM)	5.5, 5.8, 6.0, 6.1.1, and 6.5
Dell Storage Replication Adapter (SRA)	16.3.10
CITV	4.0 and later






Software and Hardware Requirements

The following sections list the requirements for the Storage Manager Data Collector, Dell Storage Manager Client, and Storage Manager Server Agent.

Dell Storage Manager Client Requirements




The following table lists the requirements for the Dell Storage Manager Client.

Component	Requirements
Operating system	<p>Any of the following 32-bit or 64-bit operating systems (with the latest service packs):</p> <ul style="list-style-type: none">· Windows 8· Windows 8.1· Windows 10 <p>Any of the following 64-bit operating systems:</p> <ul style="list-style-type: none">· Windows Server 2008 R2· Windows Server 2012· Windows Server 2012 R2· Windows Server 2016· Red Hat Enterprise Linux 6.7· Red Hat Enterprise Linux 7· Red Hat Enterprise Linux 7.1· Red Hat Enterprise Linux 7.2· Red Hat Enterprise Linux 7.3· SUSE Linux Enterprise 12· Oracle Linux 6.5· Oracle Linux 7.0 <p> NOTE: Windows Server Core is not supported.</p>
CPU	<p>32-bit (x86) or 64-bit (x64) microprocessor</p> <p> NOTE: Linux versions of the Dell Storage Manager Client support only 64-bit microprocessors.</p>
Software	<p>Microsoft .NET Framework 4.0 (Windows only)</p>
Web browser	<p>Any of the following web browsers:</p> <ul style="list-style-type: none">· Internet Explorer 11· Firefox· Google Chrome· Microsoft Edge <p> NOTE: Other web browsers might work but are not officially supported.</p>

Data Collector Requirements

The following table lists the Storage Manager Data Collector requirements.

 **NOTE: For best results, install the Data Collector on a Windows Server VM on a traditional volume sourced from shared storage. Do not use a VVol for the Data Collector VM.**

Component	Requirements
Operating system	Any of the following 64-bit operating systems with the latest service packs: <ul style="list-style-type: none"> Windows Server 2008 R2 Windows Server 2012 Windows Server 2012 R2 Windows Server 2016 <p> NOTE: 32-bit operating systems are not supported, and Windows Server Core is not supported.</p>
Windows User Group	Administrators
CPU	64-bit (x64) microprocessor with two or more cores
RAM	At least 4 GB; 8 GB if using the Dell Storage Replication Adapter (SRA) for VMware vCenter Site Recovery Manager
Disk space	At least 20 GB; additional space is required to manage FluidFS cluster software updates
Software	Microsoft .NET Framework 4.0 Full
Web browser	Any of the following web browsers: <ul style="list-style-type: none"> Internet Explorer 11 Firefox Google Chrome Microsoft Edge <p> NOTE: Other web browsers might work but are not officially supported.</p>
External database	One of the following databases: <ul style="list-style-type: none"> Microsoft SQL Server 2008 R2 Microsoft SQL Server 2008 R2 Express (limited to 10 GB) Microsoft SQL Server 2012 Microsoft SQL Server 2012 Express (limited to 10 GB) Microsoft SQL Server 2014 Microsoft SQL Server 2014 Express (limited to 10 GB) Microsoft SQL Server 2016 MySQL 5.5 MySQL 5.6 MySQL 5.7 <p> NOTE: The embedded database stored on the file system can be used instead of an external database. However, the embedded database is limited to 64 GB and retains only the last 30 days of data. The embedded database is not recommended for a production environment.</p>

Dell Storage Manager Virtual Appliance Requirements

The Dell Storage Manager Virtual Appliance requires the following conditions.

Component	Requirement
Server operating system	VMware vSphere 5.5, 6.0, or 6.5 with 64-bit hardware
Datastore size	55 GB
Software	<ul style="list-style-type: none"> VMware vCenter Server VMware vSphere High Availability



Component	Requirement
Memory	Varies based on size of the storage environment <ul style="list-style-type: none"> 4 GB: 1–5 storage arrays or 1–1000 total volumes 8 — 32GB: 6–10 storage arrays or 1001–2000 total volumes

Server Agent Requirements

The following table lists the requirements for the Storage Manager Server Agent for Windows-based servers.

Component	Requirements
Operating system	Any of the following 64-bit operating systems (with the latest service packs): <ul style="list-style-type: none"> Windows Server 2008 R2 (full or core installation) Windows Storage Server 2008 R2 Windows Server 2012 (full or core installation) Windows Server 2012 R2 (full or core installation) Windows Server 2016
CPU	64-bit (x64) microprocessor
Microsoft .NET Framework	4.0 Full

New in This Release

The following features were added to Dell Storage Manager 2016 R3.

Conservation and Emergency Mode Alerts

Dell Storage Manager 2016 R3 displays alerts when a Storage Center enters Conservation or Emergency Modes.

Data Progression Improvements

In Storage Center version 7.0 Data Progression was changed to reduce the impact on Storage Center performance.

Data Progression runs daily at specified time and continues until all tasks are completed. If all the tasks are not completed, those tasks are completed in the next Data Progression cycle. Data Progression still follows schedules set on the Storage Center. To improve Data Reduction, set the **Data Progression Max Run Time** field to **Unlimited**.

Disk Power On Time Report

Dell Storage Manager 2016 R3 allows users to view a report on the age and status of a drive on a Storage Center version 7.1 or higher.

Dell Storage Manager Scalability

To optimize performance and prevent connectivity issues, Dell recommends that one Data Collector manages no more than ten Storage Centers. A Data Collector may exceed that recommendation depending on the network latency, I/O load, and number of volumes.

Support for FluidFS Version 6

Dell Storage Manager 2016 R3 includes support for FluidFS version 6. FluidFS version 6 includes these new features:

- Multitenancy
- SMB3.1 and SMB3.1.1
- SMB3 Multi-Channel



- SMB3 Dynamic Access Control
- SMB Change Notify Full Support
- NFSv4 Advisory Locks
- FTP and FTPS User Authentication and Encryption
- Display More Details On Connected SMB Sessions
- One To Many and Cascaded Replication
- Replication WAN Optimization
- Active Directory Organizational Unit
- Control Local Account UID and GID
- Metadata Tiering
- 128 TB Files
- SNMP v3
- Automated Scheduled Reports
- Statistics on NAS Volume Contents

For more information, see the *Dell FluidFS Version 6 Release Notes*.

Support for SC5020

Dell Storage Manager 2016 R3.10 supports SC5020 controllers.

Stretched Storage With SRA

Dell Storage Manager 2016 R3.10 and Dell Storage Replication Adapter (SRA) version 16.3.10 includes support for Live Volumes with VMware Site Recovery Manager (SRM) and Stretched Storage. SRA with Live Volumes and Stretched Storage does not support Remote Data Collectors.

 **NOTE: Apply the following advanced settings on the recovery site to allow SRM to operate properly with Live Volumes with SRA 16.3.10. If you have an active/active configuration, apply these settings to both sites.**

- Increase the **storageProvider.stretchedDevicesMatchTimeout** value to 1000 seconds.
- Increase the **storage.commandTimeout** value to 90 seconds for each Live Volume managed by SRM. For example, if there are five Live Volumes, the **storage.commandTimeout** value should be set to 450 seconds.
- Clear the **Automatically save and validate restore points** checkbox in the **Edit Data Collector Settings** dialog box to prevent restore points to become degraded after disaster recovery.

For more information, see [Open Issues Related to Dell Storage Replication Adapter \(SRA\)](#).

PS Group Volume Import Support for Linux

In Dell Storage Manager 2016 R3, importing PS Group volumes supports Linux operating systems. The following operating systems are supported:

- Red Hat Enterprise Linux 6.7
- Red Hat Enterprise Linux 7
- SUSE Linux Enterprise 11 or 12
- Oracle Linux 6.5
- Oracle Linux 7.0
- VMware ESXi 5.5 or later
- Windows Server 2008 R2 or later



Notes and Limitations

This section contains information important to the release of Dell Storage Manager 2016 R3.

Cross-Platform Replication Snapshots

After replicating a volume from a Storage Center to a PS Series group, snapshots replicated to the PS Series group do not expire based on the Snapshot Profile set on the source volume. To prevent the snapshots from consuming excessive space, manually delete the PS Series group snapshots in Storage Manager.

Fixed Issues

The following sections summarize the issues fixed in Storage Manager 2016 R3.11.

Fixed Issues Related to Management of PS Series Groups

The following issues are fixed in Dell Storage Manager 2016 R3.11.

Issue	Description
DSM-21915	Storage Manager is not able to manage a PS Group with a session banner of more than 255 characters.
DSM-19815	Storage Manager fails to manage a PS Group after updating to Storage Manager 2016 R1 from an earlier version.
DSM-17313, DSM-17379	After refreshing the Dell Storage Manager Client, Storage Manager does not update the % Full , InUse Space , or Number of Snapshots columns for a PS Series group volume.

Fixed Issues Related to the Data Collector

The following issues are fixed in Dell Storage Manager 2016 R3.11.

Issue	Description
DSM-27877	Storage Manager does not change the time to account for Data Collectors in a different time zone.
DSM-27846	After updating to Storage Manager 2016 R3.1 the Data Collector service may fail to start up due to database tables failing to update.
DSM-26650	After importing an SSL Certificate then restarting the Data Collector or restarting the server hosting the Data Collector the Data Collector reverts back to the original certificate.
DSM-26646	The Data Collector does not allow SSL common names with wildcard FQDNs.
DSM-20623	After updating to Storage Manager 2016 R1, the Data Collector service might fail to start.
DSM-24477	Logging in to a Remote Data Collector using the Data Collector Manager fails after updating to Storage Manager 2016 R2 if multiple summary plugins are enabled for that user.
DSM-24548	When configuring Active Directory with Kerberos Authentication Storage Manager does not attempt other Kerberos Key Distribution Center (KDC) when the first attempt fails.
DSM-25701	A Remote Data Collector might use up TCP/IP connections causing remote desktop connections to fail.
DSM-19302	The Data Collector service might fail to start if the Data Collector is updated to Storage Manager version 2016 R1 immediately after migrating the Data Collector database from Microsoft SQL to MySQL.
DSM-21154	After updating the Data Collector all Storage Centers might be disconnected and the Data Collector is unable to reconnect to the Storage Centers.



Issue	Description
DSM-13469	A Remote Data Collector attempts to connect to a Storage Center every 2 minutes. This issue causes logs that incorrectly indicate that new user mappings are being created.

Fixed Issues Related to Replication and Live Volumes

The following issues are fixed in Dell Storage Manager 2016 R3.11.

Issue	Description
DSM-26188	When performing a reprotect using Dell Storage Replication Adapter (SRA) random restore points that are not affiliated with the current replication might get changed to Degraded.
DSM-23316	VMware SRM reprotect might fail to reverse replications on larger systems.
DSM-18365	After performing a force delete on a Live Volume, Storage Center might delete the mappings from the volume to the host.
DSM-18016	After activating disaster recovery when the source Live Volume goes down, Storage Manager displays partial or no information for server objects.
DSM-20047	Storage Manager does not show the option to select a specific replay for disaster recovery activation.
DSM-22405	Adding array managers to SRM might fail with the following configuration: <ul style="list-style-type: none"> • SRM 6.1 • SRA 16.2.1.213 • Dell Storage Manager 2016 R2 • Live Volume is not licensed on the Storage Centers
DSM-20963	The status of the original-source Storage System does not update to the new target Storage System after a successful reprotect.
DSM-21143	Performing a reprotect using a Remote Data Collector fails when SRM attempts to use the original restore point for the reprotect.
DSM-20963	If all replications are configured in only one direction (Storage Center A to Storage Center B), the old source device status might not update to the new target device after a successful reprotect.
DSM-20308	The Storage Replication Adapter (SRA) for Storage Manager 2016 R1 displays all replication objects even ones that are not being used by VMware SRM.
DSM-16870	With Storage Manager 2016 R1, the Storage Replication Adapter (SRA) displays Live Volumes for SRM 6.0 which does not support Stretched Storage.

Fixed Issues Related to Storage Management

The following issues are fixed in Dell Storage Manager 2016 R3.11.

Issue	Description
DSM-28371	On Storage Centers with many view volumes, Storage Manager might fail to add an SMI-S provider after an update.
DSM-26738, DSM-26176	In some instances when removing a Storage Center, Storage Manager does not allow the Storage Center to be managed again stating "User is already connected to Storage Center."
DSM-27326	After updating Storage Manager to version 2016 R2 and updating Storage Center, Storage Manager might not display some Storage Centers.
DSM-25172	The Configure IO Card Change wizard shows only the final page for SC7020 not allowing changes to the IO card to be configured. Workaround: Connect directly to the SC7020 using the Dell Storage Manager Client.



Issue	Description
DSM-17218	When multiple email addresses are configured for alerts, Storage Manager does not recognize the valid email format.
DSM-25301	Storage Manager might erroneously report Storage Centers as down.
DSM-15214	An erroneous error appears when creating a server from localhost on an iSCSI SCv2000 series storage system.
SCOS-15072	Creating a fault domain without VLAN tagging with a port that was previously in a fault domain with VLAN tagging enabled causes errors and connectivity issues.

Fixed Issues Related to User Management

The following issues related to user management are fixed in Dell Storage Manager 2016 R3.11.

Issue	Description
DSM-15408	Storage Manager does not support SMTP authentication.

Fixed Issues Related to the Virtual Appliance

The following issues are fixed in Dell Storage Manager 2016 R3.11.

Issue	Description
DSM-28225	When configuring the Storage Manager Virtual Appliance from a browser and operating system with the language set to French, the Data Collector and Database pages in the Storage Manager Virtual Appliance setup wizard appear blank.
DSM-28214	After deploying a new Storage Manager Virtual Appliance and selecting a static IPv6 address, the Storage Manager Virtual Appliance might not use the selected IPv6 address.
DSM-27025	When updating the Storage Manager Virtual Appliance, the Storage Manager Virtual Appliance allows you to select a file that is not the update zip file. If that file is too large, it may take up too much space on the partition for the Storage Manager Virtual Appliance causing the Dell Storage Manager service to fail to start.
DSM-25665	Deploying the Storage Manager Virtual Appliance OVF template fails when using vSphere 6.5.
DSM-22782	The Storage Manager Virtual Appliance does not allow the time to be modified manually.
DSM-22781	The Storage Manager Virtual Appliance does not check that the IP address for an NTP server is correct and allows an invalid IP address to be configured.
DSM-24951	Sending SupportAssist information using the Storage Manager Virtual Appliance causes nearly 100 percent CPU usage.
DSM-25449	Storage Manager does not display logs for Storage Centers running version 6.7 and below when using the Storage Manager Virtual Appliance.
DSM-25646	When the embedded database for the Storage Manager Virtual Appliance reaches full capacity, the Storage Manager Virtual Appliance fails and users are unable to expand the database.
DSM-20767	During an initial setup of the Storage Manager Virtual Appliance, if the DHCP option is selected in an environment where DHCP is not available, the Storage Manager Virtual Appliance fails.

Fixed Issues Related to Virtual Volumes

The following issues are fixed in Dell Storage Manager 2016 R3.11.

Issue	Description
DSM-27377	After updating to Storage Manager 2016 R3, the VASA key store file might become corrupted causing the Data Collector to fail to start.
DSM-27120, DSM-27094	Registering the VASA Provider using the Storage Manager Virtual Appliance fails due to an incorrect URL for the Dell VASA Provider.
DSM-14771	If the Dell Storage Manager IP is changed, the VASA Provider needs to regenerate a VASA certificate and reregister.

Fixed Issues Related to Cross-Platform Replication

The following issues are fixed in Dell Storage Manager 2016 R3.11.

Issue	Description
DSM-15720	Storage Manager might show 0 MB as the size of the used space in a destination volume from a PS Series group to a Storage Center.
DSM-25285	The Total Replica Reserve Space value in the Replication and Live Volumes view is incorrect for replications from a PS Group to Storage Center.
DSM-24058	After deleting a cross-platform replication, Storage Manager does not delete the mapping from the Storage Center volume to the PS Group.
DSM-21078	An Access Control List is not retained for replications from Storage Center to PS Group.
DSM-25563	Storage Manager displays the source storage system as the destination and the destination storage system as the source in the Summary tab for cross-platform replications.
DSM-20347	When attempting to increase the delegated space for a cross-platform replication beyond the available space an error appears. That error does not describe the cause of the failure.
DSM-20343	Storage Manager cannot modify the Delegated Space for a cross-platform replication.
DSM-20165	Storage Manager might not display the correct state or a cross-platform replication that has failed due to lack of space on the source PS Group. In Group Manager, the replication status is paused remote resize failed . In the Dell Storage Manager Client, the Synced status is No .
DSM-19019	Creating a replication from Storage Center to PS Group fails if Delegated Space is set to 0 and shows an error that does not describe the failure.
DSM-17503	Storage Manager does not show an error when attempting to delete an in-progress cross-platform replication. In-progress replications cannot be deleted.
DSM-10610, DSM-19255	Error occurs when restoring a cross-platform replication if the user creates an access point during the restore operation.
DSM-18696	When attempting to create a chained replication from a cross-platform replication, an error appears that does not properly describe the cause of the error. Chained replications are not supported with cross-platform replications.
DSM-19561	Storage Manager allows a PS Series group volume that has been promoted to primary after activating disaster recovery to be configured for replication. This is not a supported operation.
DSM-14676	Modifying CHAP settings for replications between Storage Centers and PS Series storage arrays from the Fault Domains node might cause the remote iSCSI connection to fail.
DSM-18124	Making configuration changes after configuring cross-platform replication with replication schedules can lead to replication failures and partner-down conditions. Do not make any iSCSI configuration changes after you have started the cross-platform replication process. For more information, see the <i>PS Series v9 Release Notes</i> .



Issue	Description
DSM-14688	After deleting a replication, the restore points for that replication might still appear in the Dell Storage Manager Client. The Dell Storage Manager Client does not display information for the restore points.

Fixed Miscellaneous Issues

The following issues are fixed in Dell Storage Manager 2016 R3.11.

Issue	Description
SCOS-42111	An SC7020 or SC5020 storage system might lock access to drives connected to the Storage Enclosure Processor (SEP) if the storage system is unable to read the chassis signature for the SEP firmware.
DSM-26833	Trend Micro's Zero Day Initiative (ZDI) identified a security vulnerability in Storage Manager 2016 R2. The vulnerability has been fixed.

Fixed Issues Related to SupportAssist and Updating

The following issues are fixed in Dell Storage Manager 2016 R3.11

Issue	Description
SCOS-42110	Performing a non-service affecting update of a dual-controller storage system to Storage Center 7.2.10 might result in I/O timeouts for some volumes when the controllers are running different versions of the Storage Center software.
SCOS-42056	After updating a storage system to Storage Center 7.2.10, the storage system might stop sending SupportAssist information to Dell Technical Support on a regular schedule.
DSM-26964	Storage Manager fails to send email alerts when sending SupportAssist data fails.
DSM-26174	After updating to Storage Manager 2016 R2, Storage Manager might fail to send support data using SupportAssist.
DSM-18948	Storage Manager might fail to save some SupportAssist data in large storage environments.

Open Issues

The following issues are present in Dell Storage Manager 2016 R3.11.

Open Issues Related to Management of PS Series Groups

The following open issues are related to managing PS Series groups with the Dell Storage Manager Client.

Issue	Description
DSM-26532	Storage Manager might not clear alerts for an issue after fixing the issue on a PS Series group. Workaround: None
DSM-23693	Storage Manager displays a PS Series group as inactive after a controller failover on the PS Series group. Workaround: Remove the PS Series group from Storage Manager then add it back.
DSM-17321	Storage Manager displays alerts and alarms for PS Series groups that have been cleared to the recycling bin in Group Manager. Workaround: Delete the alerts and alarms from the recycling bin in Group Manager.
DSM-15839	After updating a PS Series group managed by Storage Manager from version 8.0 to 9.0 using Group Manager, Storage Manager fails to refresh the status of the PS Series group.

Issue	Description
	Workaround: Restart the Dell Storage Manager Client.
DSM-14934	After restoring a volume from a snapshot to an offline state, the volume appears to be online in Storage Manager. Workaround: Refresh the page in the Dell Storage Manager Client.
DSM-13871	After performing an online Thin Import of a boot volume from a PS Series group to a Storage Center, the server is unable to boot from the volume after mapping it to the server. Workaround: Online Thin Import is not supported with boot volumes.

Open Issues Related to Data Reduction

The following are open issues that are related to Data Reduction.

Issue	Description
SCOS-13237	The Storage Type Data Reduction statistics might be incorrect if the amount of data eligible for Data Reduction contains fewer than 256 pages. Workaround: None
DSM-16853	Storage Manager displays incorrect data for the Snapshot Overhead statistic for Storage Centers running version 6.7 and below. Workaround: None

Open Issues Related to the Dell Storage Manager Web UI

The following issues related to the Dell Storage Manager Web UI are open.

Issue	Description
DSM-27046	The Freeze Time and Expire Time is off by 6 hours for snapshots created using the Storage Manager Web UI. Workaround: None
DSM-26892	Applying automated report settings to other Storage Centers using the Storage Manager Web UI fails to enable the Daily, Weekly, or Monthly checkboxes. Workaround: Verify that the automated reports settings are correct for each Storage Center.
DSM-25451	The Storage Manager Web UI allows you to add a domain user as a Volume Manager or Reporter level user without selecting a user group. Workaround: None
DSM-25107	Some performance charts in the Storage Manager Web UI might display "NaN" instead of the actual data. Workaround: None
DSM-24667	Sending SupportAssist data using the Storage Manager Web UI might incorrectly display an error even though the information was sent successfully. Workaround: None
DSM-24302	Snapshots created in the Storage Manager Web UI might display incorrect start and end times. Workaround: None
DSM-24193	Storage Manager might lock a Storage Manager account after half the number of log in attempts than allowed by the account lockout threshold.



Issue	Description
DSM-21139	<p>Workaround: Increase the account lockout threshold to double the desired amount.</p> <p>Attempting to update a Data Collector installed on a Windows Server using the System Updates option in the Storage Manager Web UI causes an error. The System Updates option is used only for the Storage Manager Virtual Appliance.</p> <p>Workaround: None</p>
DSM-20806	<p>The Storage Manager Web UI displays primary Data Collector functions for remote Data Collectors. Initiating those functions might cause replication using that remote Data Collector to fail.</p> <p>Workaround: None</p>
DSM-20769	<p>The Generate Fault Domain Configuration option in the Configure Fibre Channel Fault Tolerance wizard is not available in the Storage Manager Web UI.</p> <p>Workaround: Use the Dell Storage Manager Client to generate the default Fibre Channel fault domain.</p>
DSM-18844	<p>Creating multiple volumes with Group or Volume QoS Profiles from a server in the Storage Manager Web UI fails to set the QoS Profiles on the volumes.</p> <p>Workaround: Set the QoS Profile on the volumes after creating the volumes.</p>
DSM-18722	<p>After Removing a Storage Center from the Data Collector then adding it back, the Storage Manager Web UI retains the username and password but fails to log in.</p> <p>Workaround: Reenter the username and password for the Storage Center.</p>
DSM-20746	<p>When attempting to reconnect a Storage Center connected using a host name without a suffix, the Storage Manager Web UI might fail to connect reporting that the host name is incorrect.</p> <p>Workaround: Reconnect the Storage Center using the full host name with the suffix.</p>
DSM-19661	<p>After restarting the Virtual Appliance, the Storage Manager Web UI displays the login screen before the Virtual Appliance is fully up and ready for logins.</p> <p>Workaround: Wait for the Virtual Appliance to fully start up before logging in.</p>
DSM-18409	<p>Storage Manager does not show an error if it fails to connect to a Data Collector database after changing the data source. Instead, the Change Data Source wizard returns to the first page.</p> <p>Workaround: Correct the connection failure with the Data Collector database then attempt to change the data source again.</p>
DSM-17754	<p>After changing the source Storage Center when creating a volume, the volume folder does not change to a folder on the new Storage Center.</p> <p>Workaround: Change the volume folder after changing the Storage Center.</p>
DSM-15748	<p>The Est. Full column in the Storage Centers table displays the incorrect time. It shows AM in place of PM and PM in place of AM.</p> <p>Workaround: None</p>
DSM-15130	<p>Resizing the window on the Storage Manager Web UI causes buttons and information to overlap.</p> <p>Workaround: Refresh the page in the Dell Storage Manager Client.</p>
DSM-16444	<p>After creating a rule for a Snapshot Profile, the Storage Manager Web UI uses UTC time instead of the time zone set on the Storage Center. This issue can cause the start time of the rule to be off by multiple hours.</p> <p>Workaround: Create the rule and adjust for the time difference or create the rule using the Dell Storage Manager Client.</p>

Issue	Description
DSM-16373, DSM-16368	The Storage Manager Web UI does not show the progress of a Data Collector data source change. Workaround: Use the Dell Storage Manager Client to change the data source of a Data Collector.
DSM-16075	The Storage Manager Web UI does not enable Allow Storage Profile Selection in the User Preferences dialog by default. Workaround: Enable Allow Storage Profile Selection .
DSM-16062	An error occurs after switching SNMP from SNMP v3 to SNMP v1/v2 using the Storage Manager Web UI. Workaround: Use the Dell Storage Manager Client.
DSM-15789	While migrating a Data Collector, the summary page in the Storage Manager Web UI incorrectly states that the database is an internal database and that there is not an administrator user. Workaround: None
DSM-15151	After switching the display language from English to Chinese, the Storage Manager Web UI still displays English. Workaround: None
DSM-16267	The Storage Manager Web UI does not require the user to specify a new IP address when adding a port to a VLAN. This issue causes the operation to fail. Workaround: Use the Dell Storage Manager Client.

Open Issues Related to Cross-Platform Replication

The following open issues are related to cross-platform replication between Storage Centers and PS Series groups.

Issue	Description
DSM-28871	Attempting to recreate an iSCSI connection in a cross-platform replication after deleting the iSCSI connection fails. Workaround: Contact Dell Technical Support.
DSM-26371	Storage Manager might incorrectly display the progress of a cross-platform replication as 100% after pausing a cross-platform replication at 50% then restarting the lead controller on the PS Group. Workaround: Resume the replication.
DSM-25944	Storage Manager displays an incorrect name for the operating system of a Remote PS Group. Workaround: None
DSM-23428	Storage Manager might freeze when activating disaster recovery on a large number of volumes. Workaround: Close the Dell Storage Manager Client then reopen it.
DSM-23309	Storage Manager is unable to configure replications to a PS Group for multiple volumes from the Volumes node in the Storage tab. Workaround: Configure the replications individually.
DSM-24885	The Create QoS dialog box appears behind the Create Replication dialog box when replicating multiple volumes without a QoS definition created. Workaround: Create a QoS definition before replicating volumes or move the Create Replication dialog box to access the Create QoS dialog box.



Issue	Description
DSM-25282	<p>If a remote PS Group fails to respond 90 seconds after creating an iSCSI connection the connection was still created successfully. However, the Configure iSCSI Connection wizard remains open. Clicking Finish again attempts to create the same connection again and fails.</p> <p>Workaround: Do not click Finish. Close the window then refresh the Dell Storage Manager Client.</p>
DSM-25697	<p>After attempting to configure an iSCSI connection from a Storage Center to a PS Group that is already setup, then selecting another PS Group that is not setup, Storage Manager attempts to setup a connection to the PS Group that was selected first.</p> <p>Workaround: Close the Configure iSCSI Connection then reopen it and select the correct PS Group.</p>
DSM-20532	<p>When the Free Reserved Space is fully consumed, Storage Manager reports the value as the full configured value.</p> <p>Workaround: View the Free Reserved Space from Group Manager.</p>
DSM-20458	<p>Storage Manager does not prevent the user from deleting a port used in replication. Deleting the port from the fault domain breaks the replication.</p> <p>Workaround: Contact Dell Technical Support to restart the replication if a port has been deleted.</p>
DSM-20355	<p>Creating an iSCSI connection for a cross-platform replication succeeds but displays an error.</p> <p>Workaround: Ignore the error then confirm the connection from the Replications and Live Volumes view.</p>
DSM-20325	<p>After a cross-platform replication creates the limit of snapshots (1025) on the Storage Center, the replication goes down and Storage Manager does not show an error.</p> <p>Workaround: Expire older snapshots on the Storage Center.</p>
DSM-19875	<p>For replications from Storage Center to PS Group Storage Manager does not report if the delegated space is full. The replication fails but Storage Manager reports a successful replication.</p> <p>Workaround: Check the alerts and logs for the PS Group and Storage Center. If needed, expand the delegated space.</p>
DSM-19844	<p>The Modify Space Settings option appears for PS Groups when cross-platform replication is not configured.</p> <p>Workaround: None</p>
DSM-17647	<p>Storage Manager does not show replication information for PS Group volumes when the PS Group volumes were created with different Storage Manager administrator users.</p> <p>Workaround: Use the same Storage Manager user to create cross-platform replications.</p>
DSM-17016	<p>Storage Manager displays replication schedules for replications from PS Group to PS Group. Storage Manager does not manage replications between PS Groups.</p> <p>Workaround: None</p>
DSM-19667	<p>Storage Manager does not immediately display restore points for unplanned disaster recovery activations.</p> <p>Workaround: Refresh the Replications view in the Dell Storage Manager Client.</p>
DSM-16095	<p>Storage Manager might not display the proper volume information in the volumes list for volumes replicated from a PS Series group to a Storage Center.</p> <p>Workaround: Select the volume to view the volume information individually.</p>
DSM-13191	<p>After deleting a replication partnership between a Storage Center and a PS Series group, users are unable to set up a replication partnership between the same Storage Center and PS Series group.</p>

Issue	Description
	Workaround: Contact Dell Technical Support.
DSM-10616	Storage Manager does not retain the server-to-volume mappings after restoring from a disaster recovery. Workaround: Map the volumes back to the servers.
DSM-16448	Restore points for deleted Storage Center to PS Series group replications might still appear in the Activate Disaster Recovery dialog box. Workaround: None
DSM-13404	The Replication Validation plug-in on the Summary page for a Storage Center does not display volumes replicated from a PS Series group to a Storage Center. Workaround: None
DSM-12865	Selecting Replicate Now for multiple volumes on a PS Series group replicates only the first volume. Workaround: Replicate the volumes individually.
DSM-10461	After selecting multiple volumes to replicate to a PS Series group, PS Series groups do not appear as a destination storage array. Workaround: Replicate the volumes individually.
DSM-16157	Enabling replication to a PS Series group from a Storage Center fails if another replication is already set up from that volume. Workaround: Restart the Dell Storage Manager Client.
DSM-15904	Storage Manager displays an incorrect error after setting up a replication from a Storage Center to a PS Series group with insufficient delegated space. Workaround: Modify the amount of delegated space on the PS Series group to accommodate the replication.
DSM-14648	Storage Manager does not automatically map a volume to the server after activating disaster recovery on a replication from a PS Series group to a Storage Center. Workaround: Manually map the volume to the server.
DSM-16737	Storage Manager does not allow you to set up a replication from a Storage Center to a PS Series group when creating a volume on the Storage Center. Workaround: Set up replication to the PS Series group using the Replicate Volume wizard.
DSM-16754	When replicating more than 16 volumes from a PS Series group to a Storage Center, Storage Manager displays replications in a Waiting state as Down. Workaround: Replicate no more than 16 volumes at a time.

Open Issues Related to the Storage Manager Virtual Appliance

The following open issues are related to the Storage Manager Virtual Appliance.

Issue	Description
DSM-28390	After setting up the Storage Manager Virtual Appliance with a static IPv4 address, the VM might display an IPv6 address if DHCP is not available on the network. Workaround: Restart the VM.
DSM-25657	Attempting to expand the embedded database of a Virtual Appliance fails from the CLI if the database is at 100 percent capacity.



Issue	Description
	Workaround: None
DSM-24018	Changing the time zone on the Virtual Appliance does not change the time displayed for the Virtual Appliance in the Storage Manager Web UI. Workaround: None
DSM-19776	Logging in to the Virtual Appliance using an Open LDAP username with a domain suffix fails. Workaround: Add the user without using the domain suffix.
DSM-15341	The Virtual Appliance CLI menu in the VMware Console appears in English for a Virtual Appliance deployed for Japanese or Chinese languages. Workaround: Access the Virtual Appliance CLI using SSH.
DSM-15808	After migrating to the Storage Manager Virtual Appliance, the Storage Manager Virtual Appliance does not have the same time zone as the original Data Collector. Workaround: Change the time zone on the Storage Manager Virtual Appliance.

Open Issues Related to VVols

The following open issues are related to virtual volumes (VVols).

Issue	Description
DSM-27446	Storage Manager does not display information for VVols or VMFS volumes in the Connectivity tab in the Servers view. Workaround: View VVols or VMFS information from the Storage view.
DSM-13042	Under rare circumstances, usually involving VVol operations (cloning and snapshots) on multiple VMs concurrently using scripting and eventual deletion of VVols, an attempt to delete a VVol VM might result in VVols not being deleted. This scenario results in inefficient space consumption and reduction in total VVols available for future use. Workaround: Removal of the VVols is not a user-level corrective option. Contact Dell Technical Support for assistance. Avoid running concurrent VVol operations using scripting. Instead, script sequential operations or operations with interjected delays.
DSM-151	vCenter displays the VVol datastore as active even after a storage container is deleted from Dell Storage Manager. If you try to create a VM on the datastore, it is marked as inactive. Workaround: None.
DSM-9825	If you create a storage container in Dell Storage Manager, and then create a datastore from vCenter, there could be a delay before the VASA Provider detects the datastore. Workaround: Dell recommends that you create VVol datastores from Dell Storage Manager. This task creates the storage container on the Storage Center and the datastore on vCenter in one operation. If you want to create the storage container in Dell Storage Manager, and then create the datastore from vCenter, you will need to wait 1-2 minutes after creating the storage container in Dell Storage Manager before it is visible in vCenter. After the new storage container is visible in vCenter, the VVol datastore can be created.
DSM-11417	When high availability (HA) is configured between two hosts, VVols are migrated from the active host to the standby host when management network access to the active host is lost. This situation is similar to VMFS, and is the expected behavior. However, if only the data network goes down, VMFS datastores migrate to the standby host, but VVols do not fail over. VMCP currently is not supported with VVols.

Issue	Description
	<p>Workaround: No workarounds are available when the data network goes down (but the management network stays up). If, however, the management network to the active host goes down, failover is triggered, regardless of the data network's state.</p>
DSM-11945	<p>Even after unregistering VASA, powered-off VMs are accessible and VVol datastores are active. If you try to power on the VMs or create a new VM, vCenter eventually discovers that the VASA Provider is not present and it marks the VVol datastores as inactive.</p> <p>Workaround: None.</p>
DSM-12728	<p>In rare occurrences, the space consumption information for a volume might be blank.</p> <p>Workaround: Close and reopen your client.</p>
DSM-12732	<p>It is possible to create a storage container, and a subsequent VVol datastore using it, of a logical size that exceeds the physical capacity of the storage array. The capacity values (in the vCenter user interface) for an oversubscribing container reflect the actual free or total physical capacity values of the array instead of the logical storage container values.</p> <p>Workaround: None.</p>
DSM-13274	<p>The Dell Storage Manager VASA Provider, whether using VASA1 or VASA2, can have only one vCenter server registered to it at any time. You cannot register multiple vCenter servers to the Dell VASA Provider at the same time. If you register a vCenter server to Dell Storage Manager and then register the server to the Dell VASA Provider, you first must unregister the server from the VASA Provider before registering a different vCenter server to the Dell VASA Provider.</p> <p>Workaround: If you try to register any vCenter server to the Dell VASA Provider, and the registration fails, make sure that no other vCenter servers are registered to the Dell VASA Provider.</p>
DSM-13316	<p>After increasing the storage container size in Dell Storage Manager, the vCenter user interface shows the datastore with the new size. However, it still displays an error for insufficient space when it tries to create a VM.</p> <p>Workaround: Unmount and then remount the datastore.</p>
DSM-13801	<p>If you have any applications or folders open during the Dell Storage Manager update process, you might not be able to start the Dell Storage Manager Data Collector. It could fail with the error <code>Error setting up JBoss: deleting joboss directory</code>. The folders mentioned in this directory could be VASA logs folder, server logs folder, and the msa Service folder. Dell recommends that you close all applications and folders before proceeding with the update.</p> <p>Workaround:</p> <ol style="list-style-type: none"> 1. In Windows Explorer, select Control Panel → Programs and Features. 2. Select the Storage Manager Data Collector, then click Change. In the Change window, you can choose to do a repair. It reinstalls the files, including the JBoss directory.
DSM-14149	<p>If you try to apply a new VM Storage Policy while Storage vMotion of a VM is in progress, the compliance status of the VM goes to <code>Out of Date</code>.</p> <p>Workaround: Reapply the new storage policy after Storage vMotion has completed.</p>
DSM-14301	<p>The Datastore Connectivity tab in the Dell Storage Manager Data Collector user interface is blank when viewing a datastore on a vCenter 6.0 server or an ESXi 6.0 host.</p> <p>Workaround: Use the vCenter or ESXi 6.0 client to view connection information.</p>
DSM-14570	<p>If you attempt to register the VASA Provider with a DSM user with Reporter privilege, it fails as expected. However, an incorrect error message <code>Username or password is incorrect</code> is reported. The correct error should be <code>user with Reporter privilege is not allowed to register VASA provider</code>.</p>



Issue	Description
DSM-14806	<p>Workaround: Ignore the error message, and register VASA Provider with a DSM user with Administrator privilege.</p>
DSM-14806	<p>Migrate or Clone operations on virtual machines with snapshots might fail if not enough space is available in the VVol datastore hosting the VM. The temporary space overhead required by these operations depends on the size of the individual disks and the number of snapshots the VM has.</p> <p>Workaround:</p> <ol style="list-style-type: none"> 1. Check if the VVol datastore (storage container) is nearing capacity. 2. Increase the size of the VVol datastore to sufficiently accommodate the overhead and then retry the operation.
DSM-14891	<p>A fast clone VM shows history with the VM from which it was created. Hence the data VVols of this clone VM inherit the settings of the data VVols of the original VM. This shared history also has the following consequences:</p> <ul style="list-style-type: none"> • Changing a storage container's Data Reduction profiles might cause future fast cloned VMs to be created with mismatched Data Reduction profiles for the config and data VVols. • If a user applies a VM Storage Policy to the original VM, the same changes apply to the data VVols of the fast clone VM and conversely. <p>Workaround: None.</p>
DSM-15000	<p>A VVol VM snapshot with quiesce guest file-system option fails.</p> <p>Workaround: Install the VMware Tools without the VSS feature. For more information, see the VMware Knowledge Base article number 2069952.</p>
DSM-15302	<p>If you attempt to delete a datastore which is populated (not empty) using Dell Storage Manager, an error results. A false indicator of connectivity is represented by a red X on the vCenter server.</p> <p>Workaround: Click the Update Information button in the top-level menu.</p>
DSM-15803	<p>In rare circumstances when migrating a VVol VM from one VVol datastore to another, a config or data VVol might become orphaned on the original datastore. This VVol counts against the total VVol scale, and takes up unnecessary space.</p> <p>Workaround: Contact Dell Technical Support to handle the removal of the VM.</p>
DSM-15879	<p>When establishing an integrated environment with Dell Storage Manager and VMware, various options are available for you to import the VMware known inventory into Dell Storage Manager for enhanced management benefits. You can choose to add hosts individually, or by creating and registering from a vCenter server.</p> <p>Workaround: Although the option exists in the Storage tab to create from vCenter server, the preferred and more reliable method is to use the Dell Storage Manager Server tab. Select the Server folder then Register Server → Add VMware vCenter Server. Then, select Auto Manage Storage Centers to populate the Storage Center.</p>
DSM-15980	<p>By design, a storage container on the Storage Center created by one Dell Storage Manager Data Collector cannot be managed by another Dell Storage Manager. However, you can select the storage container, and attempt to create a datastore. Dell Storage Manager should filter out storage containers it does not manage from the list of available storage containers.</p> <p>Workaround: Select a storage container which was created by the same Dell Storage Manager. Alternatively, use vCenter to create the datastore from an existing storage container. vCenter properly filters the available storage containers.</p>
DSM-16248	<p>On rare occurrences, selecting Update information in the Dell Storage Manager Server view results in the error <code>java.net.SocketException: Unexpected end of file from server</code>.</p>

Issue	Description
	Workaround: Despite the vCenter appearing to be online and able to accept connections, a restart of vCenter is needed to reestablish proper connectivity between Dell Storage Manager and vCenter. A case for this has been logged with VMware.
DSM-16656	If you select the Auto Manage Virtual Machines On Storage Centers option during the initial Dell Storage Manager registration of a vCenter server, all the discovered ESXi hosts along with their VMs are rendered within the Servers tree of the Storage panel. If any of these VMs are later deleted from vCenter, they still remain in the Dell Storage Manager view. Workaround: To remove these deleted VMs from Dell Storage Manager, right-click the VM and then delete it.
DSM-16659	If a VVol VM's disk is resized, and you perform Update information , the storage container's configured space does not reflect the modified value. Workaround: Exit and restart the Dell Storage Manager. The Dell Storage Manager client shows the changes to the disk size.
DSM-16665	After upgrading an ESXi host from version 5.5 to 6.0, Dell Storage Manager does not properly reflect the host and its attributes as being ESXi 6 capable, in particular the recognition of the protocol endpoint. An extra artifact is that a VVol datastore is identified with improper size of 0B. Workaround: Remove the server and then add it back to Dell Storage Manager.

Open Issues Related to the Data Collector

The following open issues are related to the Data Collector.

Issue	Description
DSM-28366	Storage Manager does not allow custom SSL certificates with CN names that do not match the hostname of the server hosting the Data Collector. Workaround: Ensure that the CN name matches the hostname of the Data Collector server.
DSM-19627	Storage Manager might fail to login to a Storage Center with LDAP enabled while attempting to reconnect to the Storage Center. Workaround: Remove the Storage Center from Storage Manager then add the Storage Center again.
DSM-14882	Storage Manager retains reporting data in a Data Collector MySQL database for longer than the limit allows. This can use excessive space on the server. Workaround: Manually delete the data in the MySQL database.
DSM-9482	When completing the Data Collector setup, the setup wizard cannot continue if the Data Collector service does not start in time. Workaround: Close the setup wizard. Then, log in to the Data Collector Manager.

Open Issues Related to Dell Storage Replication Adapter (SRA)

The following open issues are related to the Dell Storage Replication Adapter (SRA).

Issue	Description
DSM-28723	Performing the Forced DR workflow in SRM with Live Volumes might cause some restore points to be in a degraded state and some protected VMs to fail to register on the secondary system. Workaround: Perform the following steps to avoid this issue: 1. In Storage Manager, click Edit Data Collector Settings .



Issue	Description
	<ol style="list-style-type: none"> 2. Click Schedules. 3. Clear the Automatically save and validate restore points checkbox. 4. Click OK. 5. Run the Forced DR workflow again.
DSM-28137	<p>SRM planned failovers with Live Volumes fail when vMotion is not enabled in the environment.</p> <p>Workaround: Dell Storage Replication Adapter (SRA) with Stretched Storage and Live Volumes requires vMotion. Enable vMotion.</p>
DSM-28278	<p>Recovering a Live Volume using SRM can fail intermittently if the Live Volume was created using a remote Data Collector.</p> <p>Workaround: Validate the restore points for the Live Volume in the Dell Storage Manager Client. Then, start the recovery process again in SRM.</p>
DSM-27783	<p>Reprotect operation might fail if the source and destination volumes of a replication managed by SRM have the same volume index.</p> <p>Workaround: Contact technical support.</p>
DSM-27978	<p>The support link is broken when setting up Dell Storage Replication Adapter (SRA) on SRM 5.8.</p> <p>Workaround: None</p>
DSM-26741, DSM-27865	<p>In some cases, duplicate restore points are created when running multiple recovery plans at once with SRM and Dell Storage Replication Adapter (SRA).</p> <p>Workaround: Run recovery plans individually.</p>
DSM-25234	<p>While running the SRM 6.5 workflow with vCenter 5.5, the Synchronize Storage step might show an erroneous warning message.</p> <p>Workaround: Ignore the message.</p>
DSM-25732	<p>The installation wizard for the Dell Storage Replication Adapter (SRA) allows you to begin updating from an older version of SRA. Updating from previous versions of the SRA is not supported.</p> <p>Workaround: Uninstall the previous version of SRA then install the new version.</p>

Open Issues Related to Replications and Live Volumes

The following open issues are related to replications, Live Volumes, and Copy, Mirror, and Migrate.

Issue	Description
SCOS-41191	<p>Attempting to delete Replication, Live Volume, or Live Migrate objects when directly connected to a Storage Center fails and displays an error.</p> <p>Workaround: Connect to the Storage Center using a Data Collector.</p>
DSM-28520	<p>After performing a test activate disaster recovery, Storage Manager does not allow you to delete that volume from the Replications and Live Volumes tab.</p> <p>Workaround: Unmap then delete the volume from the Storage view.</p>
DSM-27850	<p>The QoS tab in the Replications and Live Volumes view does not display the correct number of devices for the secondary QoS node in a Live Volume.</p> <p>Workaround: None</p>
DSM-25028	<p>Storage Manager fails to create a Live Volume if the volume uses a consistent snapshot profile.</p>

Issue	Description
	Workaround: Change the snapshot profile on the original volume.
DSM-24076	After mapping a destination volume to a server, Storage Manager might incorrectly show that there is no destination volume for the restore point in the Restore Points tab. Workaround: None
DSM-9421	A reprotect might fail and cause the recovery site to core dump if an RDM VM uses a recovery plan and protection group that manage more than one RDM VM. Workaround: Use a single protection group and a single recovery plan for each RDM VM.
DSM-9478	After a Copy or Migrate operation completes, Storage Manager does not delete the Copy or Migrate object when the Copy or Migrate was scheduled. Workaround: Manually delete the Copy or Migrate object.
DSM-9294	When creating multiple replications or Live Volumes simultaneously, correcting a configuration error and resuming the process can create duplicate replications or Live Volumes. Workaround: If a creation operation fails, do not use the wizard to correct the configuration error and continue. Instead, exit and restart the wizard, then resume creating replications or Live Volumes from the point of failure.
SCOS-12067	When importing a volume, Storage Manager does not allow you to select 0 as the LUN number. Workaround: None
DSM-15338	Disaster recovery activation fails if the Snapshot Profile assigned to the restore point has been deleted. Workaround: Edit the restore point to remove the Snapshot Profile.

Open Issues Related to Storage Management

The following open issues are related to managing volumes, Storage Profiles, snapshots, and Data Progression.

Issue	Description
DSM-29001	Creating a server object for the local server might fail if the local server is running Windows Server 2016. Workaround: Restart the server then relaunch the Create Server from localhost wizard.
DSM-28683	Storage Manager displays an error after applying the High Priority Storage Profile to all volumes on an ESXi server. Workaround: Apply the Storage Profile to each volume individually.
DSM-27655	The Storage Manager Server Agent fails to format a volume on a server during a map and format operation on servers running Windows Server 2016 and displays an error message. The volume is successfully mapped to the server. Workaround: Format the volume on the server manually.
DSM-28481	In some cases, the Shut Down/Restart dialog box remains open after restarting a Storage Center using Storage Manager. Workaround: Verify that the Storage Center successfully restarted then close the Shut Down/Restart dialog box manually.
DSM-28354	Storage Manager might not display information for some Hyper-V virtual machine volumes monitored with the Server Agent in the Servers view. Workaround: View information for those volumes in the Storage view.



Issue	Description
DSM-28297	Discover and Configure Storage Centers wizard displays an incorrect size for disks on a discovered Storage Center. Workaround: None
DSM-28295	After reinstalling the Server Agent, it might fail to register the server with Storage Manager. Workaround: Register the server in the Dell Storage Manager Client.
DSM-27862	The Discover and Configure Storage Centers wizard configures the key management server for SEDs but it does not manage the SEDs in a Secure Data folder. Workaround: Manage the SEDs in a Secure Data folder after completing the Discover and Configure Storage Centers wizard.
DSM-25741	After attempting to modify the IP addresses in a fault domain, Storage Manager incorrectly reports unknown ports as down. Workaround: None
DSM-19752	Storage Center does not change the Data Progression Start Time if the time was changed by one hour only. Workaround: Change the Data Progression Start Time by at least one hour before changing it to the desired time.
DSM-17166	Storage Manager allows you to create a fault domain using the same target address and/or VLAN ID as an existing fault domain. Workaround: None
DSM-20038	During initial setup of Storage Center, the Discover and Configure Storage Centers wizard might close while updating the Storage Center. You will not be able to open the Discover and Configure Storage Centers wizard to complete the setup until the controllers finish restarting. Workaround: Wait for the controllers to power on, reconnect to the Storage Center, then launch the Discover and Configure Uninitialized Storage Centers wizard.
DSM-16903	After removing and reinserting a controller on an SC7020 the ports are unbalanced but Storage Manager does not immediately display the option to rebalance the ports. Workaround: Restart the Dell Storage Manager Client.
DSM-20037	Creating a server using the Create Server from VMware vSphere or vCenter wizard fails if the host contains adapters that are not VMware software iSCSI adapters. Workaround: Create the server manually using the Create Server dialog box.
DSM-9390	Creating an RDM for a VM hosted on an ESXi or vSphere host maps the volume to the server in the cluster instead of the cluster object. Workaround: Manually promote the volume to the ESXi server cluster mappings. Then, rescan for hosts on the vCenter server.
DSM-15660	After adding disks to tier two in a three-tiered Storage Type that exceeds the limit for single redundancy level, tier three is forced to dual redundant instead of tier two. Workaround: None
DSM-14705	The Estimated Full Time for a volume might show an incorrect date of Jan 1, 1970 12:00:00 AM. Workaround: None
DSM-13534	The Class of Service Priority field in the Fault Domain node might not match the iSCSI priority set on the ports in the fault domain as seen when viewing the Data Center Bridging Information for that port.

Issue	Description
	Workaround: None
DSM-13200	Storage Manager does not delete a Snapshot Profile until a refresh if the Snapshot Profile was deleted without the recycle bin and was assigned to a volume. Workaround: Refresh the Dell Storage Manager Client.
DSM-11762	When creating a volume using the Server Agent, Storage Manager might show a warning that the label contains illegal characters if another volume on the Storage Center contains unsupported characters. Workaround: Correct the label of the volume with unsupported characters.
DSM-10124	Storage Manager allows users to set preallocated storage on a new volume being mapped to a down server. The operation fails. Workaround: None
DSM-9478	After a Copy/Mirror/Migrate schedule is complete, the schedule still appears in the client. Workaround: Delete the schedule.
DSM-9428	Creating a server cluster using the Create Server from vSphere or vCenter wizard creates server cluster Storage Center objects for each node in the server cluster. Workaround: None
SCOS-14951	After deleting volumes and snapshots, Storage Center does not immediately report the deleted volume space as free space for a disk folder. Workaround: Contact Dell Technical Support.

Open Issues Related to SupportAssist and Updating

The following open issues are related to SupportAssist and updating Storage Center and Dell Storage Manager.

Issue	Description
DSM-16901	After initiating a service-affecting Storage Center update, an error might appear stating "SC Update not found". Workaround: Accept the error message then reconnect to the Storage Center. The update is still in-progress.

Open Issues Related to the Dell Storage Manager Client

The following issues related to Dell Storage Manager Client user interface are currently open.

Issue	Description
DSM-28859	The welcome screen for the Storage Manager Linux client appears blank when using an unsupported Linux clients and French is set as the default language. Workaround: Use one of the following clients to launch the Linux VM: <ul style="list-style-type: none"> • VMware vSphere Web Client • Hyper-V Manager
DSM-25083	Updating the Dell Storage Manager Client from version 2015 R1 to a later version on Linux causes an error. Workaround: Uninstall the Dell Storage Manager Client then reinstall the client.
DSM-24010	After updating Storage Center, Storage Manager might not show some storage statistics in the Summary tab for a Storage Center.



Issue	Description
	Workaround: Select a specific node from the navigation pane to see the statistics for that type of storage object.
DSM-26168	Storage Manager displays the option to delete when volumes and volume folders are selected. Storage Manager does not support deleting volumes and volume folders in one action and attempting to do so fails. Workaround: Delete volumes and volume folder separately.
DSM-20153	The Message column in the Audit Logs tab of the Monitoring view does not display messages for PS Series groups. Workaround: Use Group Manager to view the messages for Audit Logs.
SCOS-12316	Storage Manager displays multi-VLAN tagging options for I/O cards that do not support multi-VLAN tagging. Workaround: Do not enable multi-VLAN tagging on Qlogic cards that do not support it.
DSM-12518	The Mappings tab for a volume might not include a horizontal scroll bar. Workaround: None
DSM-9548	Server Agent information in the Servers view does not display information for servers connected over iSCSI. Workaround: Refresh the Dell Storage Manager Client.
DSM-9477	Storage Manager might report that a restart in sequence has completed when the restart has not completed. Workaround: Verify that the restart has completed before continuing.
DSM-14987	Storage Manager displays iSCSI ports on an SC4020 that are connected to a server but not configured in red and in a down state. Workaround: None
DSM-14009	Refreshing the Dell Storage Manager Client does not clear the red dot indicator from the Storage Center node. Workaround: Restart the Dell Storage Manager Client.
DSM-13758	When restarting a peer controller, a blank warning dialog box appears. Workaround: None. Acknowledge the dialog box.
DSM-9577	The front-end SAS card for an SCv2000 series controller does not provide WWN information to ESXi hosts. Workaround: Record the SAS WWN information before installing it in an ESXi hosts.
DSM-7908	The I/O Usage report exported in XML format does not display all the information for the French output when opened in a web browser. Workaround: Open the report using Notepad or Notepad ++.

Open Issues Related to User Management

The following are open issues related to management of Storage Center and Dell Storage Manager users.

Issue	Description
DSM-28536	After updating Storage Manager to version 2016 R3.10, Storage Manager might display an error on the Preferences tab in the Edit Storage Center Settings dialog box for the user that initiated the update.

Issue	Description
	Workaround: Remove the Storage Center from the Storage Manager Data Collector then add the Storage Center back to the Data Collector.
DSM-24536	Using the characters < or < in fields in the settings for a user causes an error. Workaround: Do not use those characters.
SCOS-14309	Storage Center does not restrict directory service communication to manually defined LDAP servers. This issue might cause delays when joining Storage Center to a directory environment or failures when adding directory users and groups to Storage Center for authentication. Workaround: None
SCOS-11192	Storage Center cannot authenticate directory service users that are configured to use an alternate DNS suffix. Workaround: None
DSM-15445	Adding Storage Manager to Active Directory fails if you are using the distinguished name (DN) of a user. Workaround: Use the user principal name (UPN) to add Storage Manager to an Active Directory realm.
DSM-12329	After unlocking a user, the status might not change to unlocked immediately. Workaround: Refresh the Dell Storage Manager Client.

Open Vendor Issues

The following open issues are caused by products not produced by Dell but that impact Dell Storage Manager.

Issue	Description
DSM-15535	If you choose to reboot the Storage Center for any reason, you are given the option of choosing sequential or simultaneous for how controller reboots are handled. If you choose simultaneous, it is possible that powered-off VVol VMs hosted by that Storage Center are displayed as inaccessible in the vCenter user interface after access has been restored. To recover the VMs, remove them from vCenter inventory and add them back to the inventory by browsing the datastore. Workaround: Dell recommends that you choose the reboot controllers in sequence option to avoid any interruption which might result in inaccessible VMs.
DSM-14997	When using sDRS with VVols, vCenter incorrectly recommends migrating the VM when both VVols are on the same Storage Center. Workaround: Review the recommendations from vCenter before taking any actions.

Miscellaneous Open Issues

The following issues are open in Dell Storage Manager and Storage Center.

Issue	Description
DSM-28784	The Total Space of a disk folder in Storage Manager does not match the size of the same disk folder reported in SCVMM. Workaround: None
DSM-28532	After changing the Chargeback department of a volume that has the same index as a volume on a different Storage Center, Storage Manager might not show that the volume changed Chargeback departments. Storage Manager might also change the Chargeback department of the volume with the same index on the other Storage Center.



Issue	Description
	Workaround: None
DSM-28524, SCOS-41051	<p>When connected to a Storage Center through a Data Collector, Storage Manager does not allow you to change the name of an enclosure.</p> <p>Workaround: Connect directly to the Storage Center then change the name.</p>
DSM-27414	<p>When changing the BMC interface configuration mode from static to DHCP, the IP addresses setup in static mode remain. Also, if you change the configuration mode from DHCP to static, and modify only the IPv4 address, Storage Manager changes the netmask and gateway IP addresses to invalid values.</p> <p>Workaround: After modifying the configuration mode, ensure that the IP addresses are correct.</p>
DSM-27252	<p>Forwarding Storage Center logs to a syslog server using Storage Manager fails.</p> <p>Workaround: Setup Storage Center to post syslogs directly to the syslog server instead of forwarding through Storage Manager.</p>
DSM-26037	<p>SMI-S might show incorrect numbers for space remaining and used space.</p> <p>Workaround: None</p>
DSM-16100	<p>Storage Manager Web UI does not prevent you to attempt to have two ports as primary transport on legacy Storage Centers.</p> <p>Workaround: Use the Dell Storage Manager Client to ensure that one port is the primary transport and the other port is the reserve transport.</p>
DSM-16280	<p>The Edit BMC Setting dialog box implies that BMC is accessed though the management Ethernet port. This information applies only to SCv2000 series and SC4020 storage systems.</p> <p>Workaround: None</p>
DSM-15879	<p>The Host Setup wizard for VMware does not allow you to select an HBA on an ESXi host that contains adapters that are not VMware software iSCSI adapters.</p> <p>Workaround: Set up the server manually using the Create Server dialog box.</p>
DSM-15757	<p>When recovering a replay using the vSphere Web Client plugin, the default name given to the datastore shows an incorrect time.</p> <p>Workaround: None</p>
DSM-16593	<p>Applying SNMP setting to other Storage Centers without SNMP enabled fails without displaying an error.</p> <p>Workaround: Enable SNMP on the Storage Center before applying any settings.</p>
CQ00420311	<p>The Dell Storage Manager Client might lose connection to the Data Collector if it has up and been running for a period of time. If this issue occurs, the following error is generated: Unable to obtain JBDC connection from DataSource.</p> <p>Workaround: Apply the Microsoft fix, which can be downloaded from: http://support.microsoft.com/kb/2577795.</p>
DSM-8608	<p>When a multi-page automated report is printed in portrait orientation, the first page is printed in portrait orientation and subsequent pages are incorrectly printed in landscape orientation.</p> <p>Workaround: Save the report as a PDF then print it using a different application.</p>

Support Resources

The following section provides resources for finding more information on using Storage Manager.

Related Documentation

The following documents are available for Storage Manager version 2016 R3.11.

- *Dell Storage Manager 2016 R3.11 Installation Guide* (Document number: 680–028–021)
Provides installation and setup instructions.
- *Dell Storage Manager 2016 R3.11 Administrator's Guide* (Document number: 680–017–024)
Provides instructions for using the Data Collector Manager and the Dell Storage Manager Client.
- *Dell Storage Manager 2016 R3.11 Online Help*
Provides context-sensitive help for the Dell Storage Manager Client, Data Collector Manager, and the Storage Manager Server Agent.
- *Dell Storage Manager 2016 R3.11 Web UI Administrator's Guide* (Document number: 680–122–001)
Contains instructions and information for managing dellstorage devices using the Dell Storage Manager Web UI.

Finding Documentation

The following locations contain documentation that might be useful when managing Dell Storage products with Storage Manager.

- *Dell Support*
Provides documentation for Dell Storage Products. Go to: www.dell.com/support.
- *Dell TechCenter*
Provides technical white papers, best practice guides, and frequently asked questions about Dell Storage products. Go to: <http://en.community.dell.com/techcenter/storage/>.

Contacting Dell

For more information and customer support, go to www.dell.com/support.

