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SnapDrive® 5.0.1 for Windows® Description Page

Bug Fixes

SnapDrive 5.0.1 is an update to SnapDrive 5.0 and contains important fixes for the following bugs (also available at [Bugs Online](#)):

- 271308 – Importing VSS Snapshot copies using FlexVol® volumes sometimes fails with VSS_E_NO_SNAPSHOTS_IMPORTED.
- 268370 – VSS persistent shadow copy fails due to vendor ID mismatch (IBM systems) with IBM-branded storage systems running Data ONTAP 7.2.x and later.
- 282556 – Connecting to a LUN in a Snapshot copy on a SnapVault secondary might result in the "Read-only file system" error. The sdcli.exe command cannot create a LUN clone on the live SnapVault secondary qtree because it has read-only access. This fix creates LUN clones at the volume level rather than the qtree level.
- 282308 – VSS persistent shadow copy creation and import processes will fail if LUN is in a qtree.
- 286623 – SnapDrive 5.0 for Windows does not delete a volume clone after disconnecting all LUNs.
- 249136 – SDW MMC does not show initiators during shared disk create or connect operations when the host cluster name is greater than 14 characters.
- 253521 – If the IBM Director Agent is installed on a system with the IBM OEM version of SnapDrive 4.2 or 4.2.x, and the system is upgraded to IBM OEM SnapDrive 5.0, you might see the message "Failed to delete legacy SDConfig path and SDConfig library files." This is a warning message and can be ignored – the installation will still complete. However, during the installation clean-up phase, SnapDrive removes all files from a common directory in which the IBM Director Agent also installed files needed for the agent to function properly. The fix enables SnapDrive 5.0.1 to remove only SnapDrive-specific files during its clean-up process.
- 261084 – When disconnecting LUNs mounted from a Snapshot copy on a FlexClone volume, SnapDrive does not recognize that there might be multiple LUNs connected and will destroy the FlexClone volume. This results in all LUNs on the FlexClone volume being disconnected from the host.

Features of this Release

SnapDrive 5.0.1 software supports the following:

- Space reclamation in the active file system
- Initiator group (igroup) management
- Support for GUID partition table (GPT) partitions for standalone LUNs only
- Volume-based restoration of disconnected LUNs
- Integration with SnapVault® to provide updates on a SnapVault secondary system
- Support for VMware® Guest OS using the Microsoft iSCSI software initiator

See the [Compatibility and Configuration Guide for NetApp FCP and iSCSI Products](#) for the most up-to-date information about HBAs qualified for use with SnapDrive.

Limitations

SnapDrive 5.0.1 does not support the following:

- Windows 2000 OS is no longer supported.
- Use of SnapDrive to manage dynamic disks (storage devices that are divided into volumes rather than partitions) is not supported.
- A LUN cannot be configured as an extended partition. SnapDrive supports only a single, primary partition on a LUN.
- Any LUN created in FilerView® or at the storage system command line cannot be managed unless certain steps are taken to prepare these disks for SnapDrive.
- Conversion of a LUN with an MBR partition to a GPT partition is not supported.
- Use of SnapMirror to replicate individual qtrees is not supported (QSM).
- Use of LUN cloning is not supported.
- Snapshot™ copies that are created from the storage system console are not supported, because this can lead to inconsistencies within the NTFS file system. Use only SnapDrive to create Snapshot copies of LUNs.
- Volume-level SnapVault configurations are not supported (however, qtree SnapVault configurations are supported).
- SnapVault is not supported on vFiler® units.
- Volume-based Snapshot Restore is also not supported on vFiler units.

Considerations when using the Microsoft iSCSI software initiator:

- In a Microsoft Cluster Service configuration (MSCS) that uses volume mount points, install Microsoft hotfix [KB925677](http://support.microsoft.com/kb/925677) on all cluster nodes if you encounter the issue described in KB article 925677 (refer to the article at: <http://support.microsoft.com/kb/925677>).
- In a noncluster configuration, the Exchange service and the SQL service must be configured with a dependency on the iSCSI software initiator service.

System Requirements

The following table lists the SnapDrive system requirements.

Component	Requirement
Operating system on the storage system	Data ONTAP 7.0.5 or later. SnapDrive provides Space Reclaimer support when your storage system is running Data ONTAP 7.2.1 or later. SnapDrive provides volume-based SnapRestore support when your storage system is running Data ONTAP 7.0.5 or later. SnapDrive provides igroup management when your storage system is running Data ONTAP 7.2 and greater. For use with Data ONTAP DSM for Windows MPIO, see the Data ONTAP DSM for Windows MPIO NOW Description page for any installation requirements. SnapDrive provides SnapVault backup support of existing SnapVault configurations when your storage system is running Data ONTAP 7.2.1 or later.

	SnapDrive supports GPT partitioning style on new LUNs created by SnapDrive when you have Data ONTAP 7.2.1 or later installed on your storage system. Note: For the most current list of supported Data ONTAP software versions, see the SnapManager and SnapDrive Compatibility Matrix.
Licenses enabled on the storage system	• iSCSI, if you plan to use iSCSI-accessed virtual disks • FCP, if you plan to use FCP-accessed virtual disks • SnapRestore® software, which is required only for restoring virtual disks from Snapshot™ copies • SnapMirror, if you plan to use the SnapMirror option • FlexClone, which is required to enable volume clone functionality • SnapVault, if you want to use SnapVault for archiving LUN backup sets Note: The iSCSI and FCP licenses supplied with SnapDrive enable all the CIFS functionality necessary for using SnapDrive. If you also want <i>full-featured, direct CIFS access</i> to a particular storage system, you must install a separate CIFS license on that storage system.
NetApp Host Agent	If you are running NetApp Host Agent (to manage SnapDrive host with DataFabric® Manager), you must upgrade to NetApp Host Agent 2.4.2 or later before upgrading to SnapDrive 5.0 on 32-bit systems. For download instructions, see the Preinstallation Steps later in this description.
Hardware on the Windows host machine	• For 32-bit: 2.8 GHz Pentium® 4 or compatible • For 64-bit: Intel® Xeon®, AMD Opteron™, or Intel Itanium • 1 GB system RAM • Windows Host Utilities (Attach Kit) 3.0 for FCP installations. See the FCP Host Utilities (Attach Kits) for Windows Download page for the latest driver and firmware information. HBAs and NICs: To determine the number and type of HBAs and NICs required by each host in your SnapDrive configuration, see the section on selecting a SnapDrive configuration in the SnapDrive 5.0 Installation and Administration Guide. Obtain the latest firmware and drivers for the HBAs and NICs you are using, to ensure high network bandwidth and ease of configuration. • The NIC you use to facilitate data transfer for the Microsoft iSCSI software initiator can come from any vendor, but it must have the appropriate LOGO certification: "Designed for Windows Server 2003". • See the FCP Host Utilities (Attach Kits) for Windows on the Download Software page for the latest supported Emulex FCP HBAs and drivers. From this gateway, navigate to the FCP Host Utilities (Attach Kits) for Windows Download page. • The Microsoft iSCSI software initiator must be downloaded from the Microsoft site. For directions and links, go to the Download Software page, scroll to the iSCSI Host

	Support Kit item, select the appropriate platform, and then click Go.
Operating system on the Windows host machine	For Windows Server 2003, one of the following operating systems: • Server 2003 Standard or Enterprise Edition with SP1 or SP2 • Windows Server 2003 R2 • Windows Server 2003 R2 with SP2 • Platforms: x86, x64, and IA64
Microsoft Windows hotfixes	Before you can install SnapDrive, your host machine must have the appropriate Microsoft hotfixes installed. Note: The Microsoft hotfixes must be requested directly from Microsoft Product Support Services at http://support.microsoft.com/. For Windows Server 2003 If your host is running Windows Server 2003 with SP1 or Windows 2003 R2, you must install the following hotfixes: • 898790 • 902837 • 908249 • 912063 • 913648 • 922772 • 923424 • 923801 • 931300 Note: Hotfix 931300 is required for Windows Server 2003 Standard or Enterprise Edition 32-bit or 64-bit with SP2 Note: At this time, SnapDrive 5.0.1 requires hotfix 908249 for both Standard and Enterprise Editions of Microsoft Windows Server 2003.

Preinstallation Steps

Before you download and install SnapDrive, complete the following steps:

1. Download the [iSCSI-protocol license](#). You need this license if you currently have iSCSI LUNS or you intend to create iSCSI LUNS.
2. Download the [FCP-protocol license](#). You need this license if you currently have FCP LUNS or you intend to create FCP LUNS.
3. If you are currently running NetApp Host Agent (to manage SnapDrive host with Operation Manager), you must upgrade to NetApp Host Agent 2.4.2 or later before upgrading to SnapDrive 5.0.1 on 32-bit systems. To download NetApp Host Agent, go to the [Download Software page](#), navigate to the software download page, and then complete the following steps.
 - a. Find NetApp Host Agent from the list of products and use the drop-down list to select the platform "Data Fabric Manager 3.4.1" or later version.
 - b. Click Go! to go to the Current Releases page for this version of the NetApp Host Agent.
 - c. Click "View & Download" to access the NetApp Host Agent 2.4.2 (or later) download page.
 - d. Follow the instructions on the screen to complete the download.
4. If you are currently running a SnapDrive version earlier than SnapDrive 3.1, you must install the following license at the time you upgrade or install the SnapDrive 5.0.1 software, as follows:
 - Download the [SnapDrive license](#) for LUN provisioning and Snapshot management. **After you click the SnapDrive license link, navigate to the license by choosing the "Show me all" search method, selecting SDR-WIN, and then clicking Go.**
5. Download the [SnapDrive 5.0 Installation and Administration Guide](#).
6. Read Chapter 3, "Installing or Upgrading SnapDrive," in the *SnapDrive 5.0 Installation and Administration Guide*.

Product Documentation

Click the following links to view or download documents supporting this release:

- To view the Release Notes for this release of SnapDrive, click [here](#).
- To view the documentation for this release of SnapDrive, click [here](#).
- To download the documentation, select [ZIP](#) file format or [TAR](#) file format.

Note: If you are using the Internet Explorer 4.0 or 5.0 browser and are having problems opening any of the Acrobat® files, you might need to upgrade your browser by downloading the latest Internet Explorer Service Pack. You can also right-click the link and select "Save Target as" to download the Acrobat file, or you can use the Netscape Navigator™ browser to view or print the document.

Software Download Instructions

After you confirm that your system meets the SnapDrive requirements and complete the preinstallation steps, proceed with the download by clicking **CONTINUE**.

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