# HP 3PAR VSS Provider 2.1.0 Software for Microsoft Windows
## Release Notes


### Abstract

This document provides the release notes for HP 3PAR VSS Provider 2.1.0 Software for Microsoft Windows. Read this entire document before you install VSS Provider for Microsoft Windows.



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# Supported Platforms

| Platform | Release |
|---|---|
| Microsoft Windows 2008 and Microsoft Windows 2008 R2 | See **Note**. |
| Microsoft Windows 2003 | See **Note**. |
| Microsoft Cluster Service (MSCS) | See **Note**. |

**NOTE:** For platform-specific release levels, see the appropriate *HP 3PAR InForm OS Configuration Matrix*. To obtain a copy of this documentation, go to http://www.hp.com/go/3par/, navigate to your product page, click **Support for your product**, and then click **Manuals**.

# Prerequisites

- HP 3PAR InForm CLI installation.
- For the supported InForm CLI version, see the appropriate *HP 3PAR InForm OS Configuration Matrix*. To obtain a copy of this documentation, go to http://www.hp.com/go/3par/, navigate to your product page, click **Support for your product**, and then click **Manuals**.
- The Windows logical volume must be configured as Basic Disk and located on the HP 3PAR Storage System.
- Microsoft .Net Framework 3.5.
- Microsoft Visual C++ 2008 Redistributable Package.

# New Features and Enhancements

- Support for Remote Copy Synchronous mode Replication.

  Enables support for creating application consistent snapshots (Virtual Copies) both on the source HP 3PAR Storage System and target HP 3PAR Storage System when the data between the storage systems are replicated using Remote Copy in Synchronous mode.

- Support for new features in InForm OS 3.1.1 release.
  - VSS Provider leverages the InForm OS 3.1.1 capabilities to optimize application consistent snapshot creation by removing the additional layer of I/O blocking.
  - The volume listing and the process of obtaining the volume parameters are optimized.
  - Support for the 3PAR_RM user role. The 3PAR _RM role provides the ability to limit the operations that a user can perform. For all the capabilities that the user can perform when assigned to the 3PAR_RM role, refer the *HP 3PAR InForm OS CLI Administrator's Guide*.

# Known Issues

| Description | Workaround |
|---|---|
| Cancelling the VSS Provider for Microsoft Windows de-installation process removes the VSS service. | None. |
| Upgrading from VSS Provider 1.6 for Microsoft Windows to version 2.1 fails. | Close all applications before installing VSS Provider 2.1 for Microsoft Windows. |
| Previous VSS Provider for Microsoft Windows settings change after upgrading to version 2.1. | None. |

| Description | Workaround |
|---|---|
| Upgrading VSS Provider for Microsoft Windows fails on Windows 2003 x64 SP2 and Windows 2008 x64. | Run `3PARVSSProvider_2k3_x64.msi` directly, or run `C:\windows\System32\msiexec.exe/ I 3PARVSSProvider_2k3_x64.msi`. |
| The virtual server environment uses the controller to distribute the hardware resources, therefore snapshot LUNs may not be surfaced to the Windows OS. | None. |
| The exception message strings generated by the Windows Installer use the default locale language of the host system. | None. |
| Snapshot creation on a booted system drive might fail. | None. |
| Windows operating system only supports up to 255 LUNs. | None. |
| Any LUN ID greater than 254 will not be visible to the Windows operating system since the Windows Operating System supports a maximum of 255 LUN IDs. | None. |
| Windows 2008 MPIO hangs with VSS operation. | Microsoft has released a patch to fix this problem. Refer to Microsoft KB 957522 for more information. |
| If Remote Desktop is being used to install VSS Provider for Microsoft Windows, you need to re-login to Remote Desktop after the installation has completed. | None. |
| Windows 2008 attempts to import snapshots and perform auto-recovery on data during snapshot creation even though the requestor has explicitly indicated that the snapshot is transportable, and the hardware cannot do auto-recovery. | Microsoft has released a patch to fix this problem. Refer to Microsoft KB 970770 for more information. Installation of the patch is **mandatory** if HP 3PAR Recovery Manager for Exchange or HP 3PAR Recovery Manager for Microsoft SQL is installed. |
| The maximum number of shadow copied volumes in a single shadow copy set is 64. If any snapshot operation exceeds this limit, the operation fails and the VSS framework requires some time to perform the cleanup task. | None. |
| Snapshot taking longer than 10 seconds will be discarded. This is a Microsoft VSS framework restriction. | None. |

# Modifications

The following items have been addressed in this release.

| Bug ID | Description |
|---|---|
| 54237 | VSS Provider for Microsoft Windows displayed an incorrect error message if the backup and production servers were in different domains. This has been fixed. |
| 56884 | VSS Provider for Microsoft Windows can now use the `-noblock` option of the `creategroupsv` command. |
| 57318 | Event log issues have been corrected. |
| 60433 | The 3PAR icon is now displayed on the **Programs and Features** window in the GUI. |
| 61141 | Files now include the file version, product name, and product version. |
| 61292 | **LocateLuns** no longer fails with autonomic groups. |
| 61341 | In the VSS Provider for Microsoft Windows command line interface, complete WWNs (or 9 hexes) are now used for volumes. |
| 61454 | The tab button functionality has been fixed in the HP 3PAR Storage System registration wizard to move to the **Use SSL for...** field instead of the **OK** button. |
| 62236 | The appropriate error message now appears for volumes exported to hosts using the `domainset` command. |