HP OpenView

Storage Virtual Replicator 4.1.2 release notes

Release for Microsoft Windows Server 2003 Service Pack 1

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About this document

This section describes the content reflected in this document, including:

Release notes information

These 4.1.2 release notes contain the following major topics:

Intended audience

This document is intended for customers who purchased HP OpenView Storage Virtual Replicator (SVR) software license version 4.1 and whose environments meet the following conditions:

- Have servers running Windows Server 2003 Service Pack 1
- Use Microsoft Volume Shadow Copy Service (VSS) within SVR extensively

Accessing future product updates

HP strongly recommends that customers sign up online using the Subscriber's choice web site: http://www.hp.com/go/e-updates.

- Subscribing to this service provides you with e-mail updates on the latest product enhancements, newest versions of drivers, and firmware documentation updates as well as instant access to numerous other product resources.
- After signing up, you can quickly locate your products by selecting **Business support** and then **Storage** under Product Category.

Related documentation

The Storage Virtual Replicator kit also includes:

- *HP OpenView Storage Virtual Replicator system administrator's guide*
- *HP OpenView Storage Virtual Replicator installation instructions*
- *HP OpenView Storage Virtual Replicator command line interface reference guide*
- HP OpenView Storage Virtual Replicator online help (accessible from the Storage Virtual Replicator user interface)
- HP OpenView Storage Virtual Replicator Online Volume Growth online help(accessible from the Online Volume Growth user interface)
- HP OpenView Storage Virtual Replicator Scheduling Wizards online help (accessible from the Scheduling Wizards user interface)
- HP OpenView Storage Virtual Replicator planning charts

You can find these documents on the Storage Virtual Replicator web site:

http://h18006.www1.hp.com/products/sanworks/vr/index.html

NOTE: These release notes specifically address the 4.1.2 release. For information on topics such as system administration and commands, see the documentation for version 4.1.1.

Product features

Storage Virtual Replicator (SVR) enables you to centrally manage storage virtualization in Microsoft Windows 2000 and Windows Server 2003 computing environments. You can simplify storage configuration and management and enhance availability and scalability.

Version 4.1.2 includes a new software provider for Microsoft Volume Shadow Copy Service (VSS), which addresses many of the known issues documented in the release notes for previous versions (4.0, 4.1, and 4.1.1). The VSS software provider supports:

- Integration with NT Backup—You can back up from VSS-based snapshots created with SVR.
- Enhanced Cluster support—VSS-based snapshots are now supported on Windows clusters.

Installation and upgrade issues

This section describes issues concerning installation, uninstallation, and upgrades:

- Prerequisites
- Upgrading to version 4.1.2
- Rollback during 4.1.2 installation
- Uninstalling or modifying SVR
- Reinstalling SVR
- Uninstalling and reinstalling a cluster
- Upgrading to a cluster in Windows 2003

Prerequisites

To install SVR 4.1.2 successfully, you must have:

- Microsoft Windows Server 2003, Standard Edition or Enterprise Edition (two node cluster) with Service Pack 1
- A valid SVR 4.1 license key
- A cluster environment that is supported in a valid Microsoft Cluster Server Configuration
- Internet Explorer version 5.01 or higher

Upgrading to version 4.1.2

IMPORTANT: If the current version of SVR is 4.1.1, HP strongly recommends you perform a full installation.

You can upgrade to version 4.1.2 if the current version of SVR is either 4.0 or 4.1.

To upgrade to 4.1.2:

1. Download the upgrade kit from the web into a folder.
2. Open the kit from the appropriate folder. Select all the files within the kit and extract them to the folder (the same folder to which the kit was copied).
3. Double-click `setup.exe`.
4. Select **Install Virtual Replicator** and follow the steps to complete the installation.

Rollback during 4.1.2 installation

Installation of SVR may rollback or display an error if multiple instances of `msiexec.exe` are running. This problem is seen with installations that use MSI and run in the background such as Norton AntiVirus Corporate Edition 7.0.

Before installing SVR, ensure that multiple instances of `msiexec.exe` are not running. You can verify this in Windows Task Manager on the Processes tab.

Uninstalling or modifying SVR

To uninstall or modify SVR, select **Start > Settings > Control Panel > Add or Remove Programs**. If SVR is not included in the list of installed programs, use the SVR installation CD. Start the installation process and select **Modify**, **Repair**, or **Remove**.

Reinstalling SVR

After you uninstall and reinstall SVR, you may:

- Encounter Windows Registry namespace errors.
- Find that previously mapped virtual disks and snapshots do not have the same drive letters.

To resolve these issues, run the Namespace Recovery and Restore Drives utilities after you complete the reinstallation. After running the utility, refresh the view in the Replication Manager window (**Action > Refresh**). All drive letters should be correctly mapped.

Uninstalling and reinstalling a cluster

Follow these steps to ensure that SVR functions properly when you uninstall and then reinstall a cluster on a system running SVR:

1. Because the operating system removes the cluster registry when you uninstall a cluster, back up the following notification key:

   `HKEY_LOCAL_MACHINE\Cluster\SOFTWARE\Hewlett-Packard\OpenView SVR Mail`

2. Uninstall the cluster.
3. Downgrade to a stand–alone environment by selecting **Start > Programs > hp OpenView storage virtual replicator > Configure Virtual Replicator**.
4. Select **Downgrade to Standalone**.
5. Install the Microsoft Cluster Service.
6. Upgrade to a cluster environment by selecting **Start > Programs > hp OpenView storage virtual replicator > Configure Virtual Replicator**.
7. Select **Upgrade to Cluster**.

Upgrading to a cluster in Windows 2003

To upgrade SVR to a cluster system in Windows Server 2003 using Quorum on a cluster aware disk:

1. Configure the cluster on the first node (N1) using either **Local Quorum** or **Majority Node Set** as the quorum.
2. Perform the SVR cluster upgrade on N1.
3. Take all the pools offline.
4. Create a cluster aware disk to be used as the Quorum resource.
5. In the console tree of the cluster administrator, right–click the cluster name and select **File Properties**.
6. On the Quorum tab, select the Quorum resource, and then select the Quorum disk created.
7. In the Partition field, select the partition on which the cluster-specific data will be kept, if the disk has more than one partition.
8. In the Root path field, enter the path to the folder on the partition (for example, `\MSCS\`).
9. Move the Quorum resource to the Cluster Group.
10. Create a dependency between the Quorum resource, the Cluster IP, and the Cluster Name.
11. Bring all the pools online
12. Join the second node (N2).
13. Perform the SVR cluster upgrade on N2.

Known issues with SVR VSS snapshots

From a Microsoft Volume Shadow copy Service (VSS) perspective, the SVR VSS provider is categorized as a software provider. Two issues were observed during qualification, however, they are not critical and are benign to VSS functionality.

To view the SVR VSS snapshots issues that have been resolved with this new VSS provider, see the *HP OpenView Storage Virtual Replicator 4.1.1 release notes* available from the following web site:

http://h200007.www2.hp.com/bc/docs/support/SupportManual/c00362760/c00362760.pdf

VSS event for clusters seen in event log

Writer callback access denied error is logged by VSS in the application event log. You may ignore this error; it does not affect SVR snapshot creation.

Reboot prompt when creating VSS snapshots

You may be prompted occasionally to reboot your system, but a reboot is not required to create a VSS snapshot. When prompted to reboot, click **No**.