HP OpenView

Storage Virtual Replicator

Product Version: 4.1

Fifth Edition (July 2004)

Part Number: 5697-4959

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About this document

This document describes how to install the latest version of Storage Virtual Replicator (SVR). For upgrade instructions, refer to the *HP OpenView Storage Virtual Replicator Release Notes*.

Prerequisites

Before you install SVR, ensure that your system meets all of the specified requirements.

Software requirements

The following software is required:

- Either of the following:
  - — Windows 2000—Professional, Server, or Advanced Server, using Service Pack 4
  - — Windows Server 2003
- Microsoft Internet Explorer, Version 5.01 or greater

  If you do not have Internet Explorer, you can download a free copy of the latest version from the Microsoft web site at http://www.microsoft.com/.
- Microsoft Management Console (MMC), version 1.1 or greater

  MMC is included with the Windows 2000 and Windows Server 2003 operating systems.

Hardware requirements

The hardware requirements conform to the Microsoft minimum requirements for the particular operating system, including:

- Intel architecture, 32-bit processor
- Minimum of 128 MB of memory (256 MB recommended)
- 100 MB of disk space for a complete installation

License requirements

You must obtain a valid license to use SVR. Do one of the following to obtain the license:

- Use the Autopass license wizard when you install SVR. (See "Installing SVR.")
- Go to the Hewlett-Packard Licensing web site after you install SVR as an evaluation copy. (See "Using the Licensing web site.")
- Complete the License Entitlement Certificate included in the SVR license kit (ordered separately) and submit it by fax, email, or phone to the HP Password Center.

Installing SVR

To install SVR:

1. Log in to Windows using an account with Administrator privileges.
2. Insert the SVR installation CD into the CD-ROM drive. Installation begins automatically.

   The splash screen of the installation wizard opens.

Note: Alternatively, double-click `setup.exe` in the root directory on the CD.

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3. Select **Install Virtual Replicator** and click **Next**.

   The License Agreement window opens.
4. Select the option to accept the license agreement terms and click **Next**.

   The Setup Type window opens.
5. Select the installation type:

   - **Complete**—Install all SVR features.
   - **Custom**—Install selected features only.
   - **Management Only**—Install the management tools to manage SVR remotely.

6. Click **Next**.

   The Autopass License Information window opens.

7. Do one of the following:

   If you purchased an SVR license and have your HP order number available, select **Yes** and then click **Next**. See "Obtaining an SVR license" to complete the license process.

   If you are evaluating SVR only, select **No** and then click **Next**.

8. Proceed with the installation wizard until SVR is installed.

9. Reboot your computer after completing the installation. You may need to reboot a second time because of the Microsoft signed driver

10. Ensure that you log in using the same account used in step 1.

Obtaining an SVR license

HP uses Autopass to manage licenses for its software products.

If you have not purchased SVR and want to evaluate the software, select **No** in step 7 of "Installing SVR." This activates the 60–day instant–on feature, which enables you to use SVR for that time frame. You can use the full functionality of SVR with one limitation—you can only perform *one* Online Volume Growth (OVG) operation of 10% or less.

If you have purchased a license and have an HP order number, complete the license setup:

1. Select **Yes** in step 7 of "Installing SVR."

   The Autopass: internet connection window opens.

2. Do one of the following:

   ■   Select **Direct connection**.

   ■   Select **Proxy server** and enter the host name or IP address and the port number of the system you are using.

   ■   Select **No connection to the Internet** if you cannot connect to Auto Pass through the Internet. Follow the instructions provided to request a password by email or fax from the HP OpenView Password Center.

3. Click **Next**.

   The Autopass: Order Validation window opens.

4. Select **Install a permanent password**, enter your HP order number, and click **Next**.

   The Autopass: System identification and product details window opens.

5. Under Product profile, select the SVR product number that you purchased and click **Next**.

   The Autopass: Member ID maintenance window opens.

6. Under Member ID, enter your email address.

7. Under Enter or Create a New Password:

   ■ Select **Existing member** or **First-time user**.

   ■ Enter your password.

   ■ If you selected **First-time user**, enter your password again in the Confirm password box.

8. Click **Next**.

   The Autopass: Member profile update window opens.

9. If necessary, make the appropriate changes to your customer information and click **Next**.

   The Privacy Policy window opens.

10. Select **Yes** or **No** for each contact type (E-mail, Postal mail, Phone) and click **OK**.

   The Autopass: Information summary window opens.

11. Click **Get password**.

   The Autopass: Confirmation window opens.

12. Click **Finish** to return to the SVR installation wizard.

13. Go to step 8 in "Installing SVR" to complete the installation.

Upgrading to 4.1

Follow this procedure if you purchased an upgrade from version 4.0 and want to obtain your permanent SVR license:

1. Go to the following web site:

    http://www.webware.hp.com

    The Welcome to Hewlett-Packard Licensing window opens.

2. Select **migrate license(s) to a new product(s)** from the **contract licensing** submenu.

    The migrate license(s) to a new product(s) window opens.

3. Enter the password in the **Migration Password** box and click **Next**. You can obtain the password from the *HP OpenView Storage Virtual Replicator v4.1 Software Upgrade* letter.

    The license migration – search criteria window opens.

4. Copy the existing license information in the **License Text** box and click **Next**.

    The license migration – search criteria window displays the following information about the product being migrated:

    ■   Product number and name

    ■   Host ID

    ■   Current number of LTUs (license to use)

    ■   The product number to which you are migrating

5. Click **Next**.

    The license migration – detail information window opens.

6. Under **New License Configuration**, enter the IP address in the **New IP address** box and click **Next**.

    The member login window opens.

7. Follow step 7 through step 11 in "Using the Licensing web site."

Using the Licensing web site

Follow this procedure if you installed SVR as an evaluation copy and now want to obtain the permanent license.

1. Go to the following web site:

   http://www.webware.hp.com

   The Welcome to Hewlett-Packard Licensing window opens.

2. Select **generate product password(s)** from the **contract licensing** submenu.

   The generate product password(s) window opens.

3. Click **Next**.

   The order validation window opens.

4. Enter your HP order number and click **Next**.

   The order–product(s) window opens.

5. Select the SVR product number that you have purchased and click **Next**.

   The order–product(s) detail window opens.

6. Enter the IP address, select a platform, and click **Next**.

   The member login window opens.

7. Do one of the following:

   ■ If you have a webware account, enter your email address and password and click **login**.

   ■ If you do not have a webware account, select **First-time user** and click **login**. Follow the instructions that display to set up a webware account.

   The address information window opens.

8. Complete the License Requestor Information and License Owner (End–User) sections and click **Next**.

Note: If the requestor and owner are the same, select **Is the License Requestor same as License Owner**. The License Owner (End–User) section is automatically populated.

The permanent password certificate window opens and displays your license information. You can copy this information into a document and save it. A text file with your license information is also emailed to you.

9. Click **Finish**.

The delivery confirmation warning window opens with a reminder to save a copy of the license information.

10. Click **Finish**.

The thank you window opens.

11. Click **OK** to exit.

Installing SVR in a Cluster

You must install SVR on all nodes in the cluster (see "Installing SVR" for instructions). Ensure that you select the same setup type for each cluster node. For example, if you select **Custom Setup** and install Online Volume Growth on one cluster node, you must do the same on each cluster node.

Each node in the cluster requires a separate SVR license. See "Obtaining an SVR license" for more information.

Migrating SVR to a cluster

If you install SVR on a stand–alone system and later migrate to a cluster system, you must uninstall and then reinstall SVR on each cluster node.

> ⚠️ **Caution:** Before you start the migration, ensure that you back up and restore the data in your SVR environment.

To migrate SVR to a cluster system:

1. Back up your data.
2. Record the names of all pools, virtual disks, and snapshots on the stand–alone system.
3. Delete all pools, virtual disks, and snapshots.
4. Uninstall SVR from the stand–alone system.
5. Install Microsoft Cluster Server (MSCS) on nodes A and B.
6. Reinstall SVR on node A (see "Installing SVR" for instructions).
7. Install SVR on node B.

Note: To run SVR, you must have a separate license for each cluster node.

8. Re–create the pools, virtual disks, and snapshots that you recorded in step 2.
9. Restore the data from your backup media to the pools, virtual disks, and snapshots.

Installing Adobe Acrobat Reader

The SVR installation CD contains PDF versions of this and several other documents in the `Documentation` folder. You must have Adobe Acrobat Reader installed on your system to view PDF files. The installation file for Acrobat Reader is in the `Documentation\Acrobat Reader` folder. Double–click `ar405eng.exe` to begin the installation. Follow the installation wizard instructions.

You can download a free copy of the latest version of Acrobat Reader from the Adobe web site at http://www.adobe.com.

Getting help

If you still have a question after reading this document, contact an HP authorized service provider or access our web site at http://www.hp.com.

SVR web site

For more information about SVR, go to:

http://h18000.www1.hp.com/storage/software.html

The Storage Software window opens.

Scroll to the **Infrastructure services software** section and select **HP OpenView Storage Virtual Replicator**.

Additional services

HP offers a variety of software product services for OpenView products. For information about the services available for SVR, contact your local representative. A list of telephone numbers is available at http://www.hp.com.

HP authorized reseller

For the name of the nearest HP authorized reseller:

■ In the United States, call 1-800-345-1518.

■ In Canada, call 1-800-263-5868.

Elsewhere, go to http://www.hp.com for locations and telephone numbers.