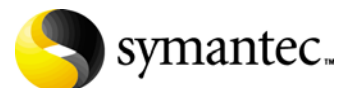


Veritas™ Storage Foundation and High Availability Solutions Getting Started Guide

HP-UX

5.0 Maintenance Pack 2



Veritas Storage Foundation and High Availability Solutions Getting Started Guide

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Storage Foundation and High Availability Solutions 5.0 Maintenance Pack 2

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Veritas Storage Foundation and High Availability Solutions are licensed products. See the product installation guides for information on product licensing and license installation instructions.

Technical support

For technical assistance, visit

http://www.symantec.com/enterprise/support/assistance_care.jsp. Select a product to use the Knowledge Base Search feature to access resources such as TechNotes, product alerts, software downloads, hardware compatibility lists, and the customer email notification service. If you encounter an error when using a product, include the error number preceding the message when contacting Technical Services. You can also use the error number to search for information in TechNotes or documents on the website.

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Getting Started

Veritas Storage Foundation and High Availability Solutions

This document contains information about products in the Veritas Storage Foundation and High Availability Solutions 5.0 Maintenance Pack 2 (MP2) release for HP-UX 11i Version 2. Updates for the following Symantec products are provided in the Storage Foundation and High Availability Solutions 5.0 Maintenance Pack 2 release.

- Veritas Cluster Server and Cluster Server High Availability Agents
- Veritas Storage Foundation™/Storage Foundation HA (including Veritas File System, Veritas Volume Manager, Veritas Volume Replicator, and Veritas Enterprise Administrator)
- Veritas Storage Foundation for Oracle/ Veritas Storage Foundation for Oracle HA
- Veritas Storage Foundation Cluster File System/Storage Foundation Cluster File System HA
- Veritas Storage Foundation for Oracle RAC

Release Availability

The Veritas Storage Foundation and High Availability Solutions 5.0 Maintenance Pack 2 for HP-UX 11i version 2 is available through the following channels:

- DVD Install Media: The 5.0 Maintenance Pack 2 DVD contains the package and documentation that constitute the 5.0 release along with the latest

patches for all the components in that release. This DVD can be used to install the software in the following ways:

- Completely new installation of 5.0 release along with the latest patches. See [New Installation or Full Installation using installer](#) on page 15 for more details.
- Upgrade a HP-UX 11i version 2 system installed with 5.0 or 5.0 MP1 release to 5.0 MP2 release. See [Upgrading SFHA 5.0 or SFHA 5.0 MP1 to SFHA 5.0 MP2 using installmp](#) on page 16 for more details.
- Upgrade a HP-UX 11i version 2 system installed with 4.1, 4.1MP1, 4.1MP2 release to 5.0 MP2. See [New Installation or Full Installation using installer](#) on page 15 for details.
- Patch Central Download: All the patches constituting SF 5.0 MP2 are available as a single tar file on Patch Central at <https://vias.symantec.com/labs/patch>. This tar file contains the latest patches, latest Release Notes, and Getting Started Guide (this document). This tar file can be used to upgrade an existing 5.0, 5.0 MP1 HP-UX 11i version 2 system to 5.0 MP2, without requiring the install media or downloading the complete release. To upgrade a HP-UX 11i version 2 system installed with SF 5.0 or SF 5.0 MP1 release: See [Upgrading SFHA 5.0 or SFHA 5.0 MP1 to SFHA 5.0 MP2 using installmp](#) on page 16.
- FileConnect Download: The complete release is available on FileConnect <https://fileconnect.symantec.com> for electronic download. This download contains the SF 5.0 packages, documentation, and all the patches that constitute SF 5.0 MP2. This download can be used to install SF 5.0 MP2 in the following ways:
 - Completely new installation of SF 5.0 along with the latest patches. See [New Installation or Full Installation using installer](#) on page 15 for details.
 - Upgrade a HP-UX 11i version 2 system installed with SF 5.0 or SF 5.0 MP1 release to SF 5.0 MP2 release. See [New Installation or Full Installation using installer](#) on page 15 more details.
 - Upgrade a HP-UX 11i version 2 system installed with 4.1, 4.1MP1 or 4.1MP2 release to 5.0 MP2. See [New Installation or Full Installation using installer](#) on page 15 more details.

SFHA Solutions 5.0 MP2 Release Contents

The 5.0 Maintenance Pack 2 for HP-UX 11i version 2 is a rollup release that contains the latest set of patches available for various components constituting the 5.0 Release. However, many of these patches have already been released in 5.0 Maintenance Pack 1 or later as standalone Rolling Patches.

In case a system is being upgraded from SF 5.0 or SF 5.0 MP1 to SF 5.0 MP2, some of these patches might already be installed on the system. In such cases, the `installmp` command automatically detects these patches and skips the installation.

For all the patches that are installed on the system from a SF 5.0 MP2 DVD media or SF 5.0 MP2 tar ball (upgrade install or new installation) the title of the patch would contain the string MP2. This can be verified by running the following command on the system after upgrading or installing SF 5.0 MP2.

```
# swlist -l product -a title
```

However, for the patches that are already installed on the system, in case of a upgrade from SF 5.0, SF 5.0 MP1 to SF 5.0 MP2, the MP2 string will not appear in the title of the patches.

The following table lists the patches contained in the SF 5.0 MP2 DVD media or Tar Ball. Note that the actual subset of patches that get installed on a system is determined by the Symantec Product installed on that system.

Table 1-1 Patches on the SFHA 5.0 MP2 DVD

| Patch name | Release |
|------------|--|
| PHCO_35217 | VRTS 5.0 MP1 VRTSmh Command Patch (MP2) |
| PHCO_35301 | VRTS 5.0 MP1 VRTSat Command Patch (MP2) |
| PHCO_36230 | VRTS 5.0 MP1RP1 VRTSorgui Command Patch (MP2) |
| PHCO_37077 | VRTS 5.0 MP1RP2 VRTSdcli Command Patch (MP2) |
| PHCO_38381 | VRTS 5.0 MP1RP2 OB Command Patch (MP2) |
| PHCO_38383 | VRTS 5.0 MP1RP2 VRTSobgui Command Patch (MP2) |
| PHCO_38384 | VRTS 5.0 MP1RP2 VRTSaa Command Patch (MP2) |
| PHCO_38385 | VRTS 5.0 MP1RP2 VRTSccg Command Patch (MP2) |
| PHCO_38740 | VRTS 5.0 MP1 RP2 VRTSvxfen Command Patch (MP2) |
| PHCO_38830 | VRTS 5.0 MP1RP6 VRTSvxvm Command Patch 06 (MP2) |
| PHCO_38831 | VRTS 5.0 MP1RP6 VRTSvmpro Command Patch 04 (MP2) |
| PHCO_38834 | VRTS 5.0 MP2 VRTSddlpr Command Patch (MP2) |

Table 1-1 Patches on the SFHA 5.0 MP2 DVD

| Patch name | Release |
|------------|--|
| PHCO_38836 | VRTS 5.0 MP1RP5 VRTSfsman Command Patch (MP2) |
| PHCO_38850 | VRTS 5.0 MP1RP5 VRTSvxfs Command Patch (MP2) |
| PHCO_38859 | VRTS 5.0 MP1RP2 VRTSfspro Command Patch (MP2) |
| PHCO_38909 | VRTS 5.0 MP1RP1 VRTSdbed Command Patch (MP2) |
| PHCO_38910 | VRTS 5.0 MP1RP2 VRTSdbcom Command Patch (MP2) |
| PHCO_38911 | VRTS 5.0 MP1RP1 VRTSmapro Command Patch (MP2) |
| PHCO_38981 | VRTS 5.0 MP2 VRTSalloc Command Patch (MP2) |
| PHCO_38997 | VRTS 5.0 MP2 VRTSobc33 Command Patch (MP2) |
| PHKL_38743 | VRTS 5.0 MP1 RP2 VRTSvxfen Kernel Patch (MP2) |
| PHKL_38794 | VRTS 5.0 MP1RP5 VRTSvxfs Kernel Patch (MP2) |
| PHKL_38795 | VRTS 5.0 MP1RP1 VRTSodm Kernel Patch (MP2) |
| PHKL_38796 | VRTS 5.0 MP1RP1 VRTSglm Kernel Patch (MP2) |
| PHKL_38829 | VRTS 5.0 MP1RP6 VRTSvxvm kernel Patch 06 (MP2) |
| PHKL_38970 | VRTS 5.0 GARP1 VRTSgms Kernel Patch (MP2) |
| PHNE_38738 | VRTS 5.0 MP1 RP2 VRTSgab Kernel Patch (MP2) |
| PHNE_38739 | VRTS 5.0 MP1 RP2 VRTSllt Kernel patch (MP2) |
| PHSS_35962 | Symantec JRE Redistribution (MP2) |
| PHSS_35963 | Symantec JRE Redistribution (MP2) |
| PVCO_03671 | VRTS 5.0 MP1 VRTSvrpro Command Patch (MP2) |
| PVCO_03672 | VRTS 5.0 MP1 VRTSvrw GUI Patch (MP2) |
| PVCO_03678 | VRTS 5.0 MP1 VRTSscsm Command Patch (MP2) |
| PVCO_03680 | VRTS 5.0 MP1 VRTSscsim Command Patch (MP2) |
| PVCO_03686 | VRTS 5.0 MP1 VRTScmccc Command Patch (MP2) |
| PVCO_03689 | VRTS 5.0 MP1 VRTScmcs Command Patch (MP2) |
| PVCO_03690 | VRTS 5.0 MP1 VRTScscw Command Patch (MP2) |
| PVCO_03697 | VRTS 5.0 MP1 SYMClma Command Patch (MP2) |
| PVCO_03698 | VRTS 5.0 MP1 VRTSsmf Command Patch (MP2) |

Table 1-1 Patches on the SFHA 5.0 MP2 DVD

| Patch name | Release |
|------------|---|
| PVCO_03797 | VRTS 5.0 MP1 RP2 VRTSvcs/VRTSvcsag Command Patch (MP2) |
| PVCO_03798 | VRTS 5.0 MP1 RP2 VRTSvcsor/VRTSvcsocw Command Patch (MP2) |
| PVCO_03799 | VRTS 5.0 MP1 RP2 VRTSvcssy Command Patch (MP2) |
| PVCO_03850 | VRTS 5.0 MP1RP1 CAVF Commands Patch (MP2) |
| PVKL_03852 | VRTS 5.0 MP1 RP3 VRTSdbac Patch (MP2) |

Known issues

See the latest release notes for a detailed list of known issues for this release.

Unofficial patches

Before you install SFHA 5.0 MP2, remove all unofficial patches. To determine if there are any unofficial patches on your system, enter the following command:

```
# swlist | grep UNOF | awk '{print $1}'
```

Installation timeout when installing from the DVD

In case of a full package installation being performed (new installation or upgrade from 4.1 or older releases) from a DVD media, the installation of VRTSvxvm might result in an internal timeout happening in the CPI installer. This can cause text similar to the example below to appear in the installation summary log.

```
Logs for installer are temporarily being created in
/var/tmp/installer-NaTy5X.
Installing SFCFS: 100%
The following depots failed to install on swia15:
VRTSvxvm
Installation log files, summary file, and response file are saved
at:
/opt/VRTS/install/logs/installer-NaTy5X
```

This message is harmless and can be ignored because the package is successfully installed. However, to avoid this issue, the installer can be invoked with `-timeout 1800` option.

VRTSvsvc is deprecated

The `VRTSvsvc` package present in the SF 5.0 release has been deprecated and is not included in SF 5.0 Maintenance Pack 2. It is recommended that this package and associated patches are removed from the system before upgrading to SF 5.0 Maintenance Pack 2. The `VRTSvsvc` package and the associated patches will be automatically removed, if `installmp` is used to upgrade to SF 5.0 MP2.

See [Upgrade from SF 5.0, SF 5.0 MP1 to SF 5.0 MP2](#) for details on upgrading to SF 5.0 MP2.

See [Upgrading SFHA 5.0 or SFHA 5.0 MP1 to SFHA 5.0 MP2 using installmp](#) on page 16.

Veritas Cluster Management Console

The SF 5.0 MP2 install media comes with an accompanying VCSMC 5.5 media. This is the latest release of the Cluster Management Console. Customers who are using SF 5.0, SF 5.0MP1 release with VCS MC 5.0 or VCS MC 5.1 release can continue to do so. Upgrading to SF 5.0 MP2 release will not hamper that functionality in any way.

It is recommend that you consider the following:

- If SF 5.0 MP2 media is used for the fresh install and if the VCS MC 5.5 is used to manage the cluster, use the Direct Connect Method from the VCS MC server.
- If SF 5.0 MP2 media is used for the fresh install and if the VCS MC 5.0 or VCS MC 5.1 is used to manage the cluster, use the `-configure` option with `installcmc` from the `cluster_management_console` directory of SF 5.0MP2 media

Latest Veritas product information

TechNotes

Before you install any product, read the following Veritas Technical Support TechNotes for the latest information on updates, patches, and software issues regarding this release:

- Late Breaking News (LBN) for SFHA 5.0 and 5.0 SFHA MP1 Release for HP-UX 11i version 2:
<http://entsupport.symantec.com/docs/281875>
- Late Breaking News (LBN) for SFHA 5.0 MP2 Release for HP-UX 11i version 2:

<http://entsupport.symantec.com/docs/319349>

- To find information on supported hardware, see the hardware compatibility list (HCL) in the following TechNote:
<http://entsupport.symantec.com/docs/283282>

About Release Notes

SFHA 5.0 MP2 documents

Before you install SFHA MP2, read the following release notes. The release notes are available on the DVD install media and also in the tar ball from Patch Central.

- *Veritas Storage Foundation 5.0 Maintenance Pack 2 Release Notes*
- *Veritas Storage Foundation Cluster File System 5.0 Maintenance Pack 2 Release Notes*
- *Veritas Storage Foundation for Oracle RAC 5.0 Maintenance Pack 2 Release Notes*
- *Veritas Cluster Server 5.0 Maintenance Pack 2 Release Notes*

SFHA 5.0 MP1 documents

The following documents are available on the Symantec Support Website:

- *Storage Foundation 5.0 Maintenance Pack 1 Release Notes*
<http://entsupport.symantec.com/docs/287629>
- *Storage Foundation Cluster File System 5.0 Maintenance Pack 1 Release Notes*
<http://entsupport.symantec.com/docs/287630>
- *Storage Foundation for Oracle RAC 5.0 Maintenance Pack 1 Release Notes*
<http://entsupport.symantec.com/docs/287632>
- *Veritas Cluster Server 5.0 Maintenance Pack 1 Release Notes*
<http://entsupport.symantec.com/docs/287633>

SFHA 5.0 Release Notes

The following release notes are available on the Symantec Support Website:

- *Storage Foundation 5.0 Release Notes*
<http://entsupport.symantec.com/docs/283708>
- *Storage Foundation Cluster File System 5.0 Release Notes*
<http://entsupport.symantec.com/docs/283716>

- *Storage Foundation for Oracle RAC 5.0 Release Notes*
<http://entsupport.symantec.com/docs/283741>
- *Veritas Cluster Server 5.0 Release Notes*
<http://entsupport.symantec.com/docs/283695>
- *Veritas Volume Replicator 5.0 Release Notes*
<http://entsupport.symantec.com/docs/283745>

Operating system requirements

The 5.0 Release for HP-UX 11i version 2 is supported on September 2004 release of HP-UX 11i version 2.0 operating system or later. However it is recommended to install the latest Fusion release of HP-UX 11i version 2 operating system before upgrading to SF 5.0 Maintenance Pack 2. See the product specific release notes for more information on system requirements.

Installation

The Veritas Storage Foundation and High Availability Solutions 5.0 Release and the latest patches can be installed in the following way:

- New installation and configuration using top level `installer` script.
- Upgrading existing SF 5.0 or 5.0 Maintenance Pack 1 release to SF 5.0 Maintenance Pack 2 release using `installmp` script.

The following table shows the way you can install SF 5.0 MP2. See the detailed steps in Storage Foundation 5.0 MP2 Release Notes and Storage Foundation 5.0 Installation Guides for the respective products.

Table 1-2 Installing SF 5.0 MP2

| Current Release | Install Method To Follow | Available in DVD Media | Available in Patch Central Download | Available in Fileconnect Download |
|---|--|------------------------|-------------------------------------|-----------------------------------|
| New Installation | Installation & configuration through installer | Yes | No | Yes |
| Upgrade from 5.0 / 5.0 MP1 for HP-UX 11iv2 | Installation through <code>installmp</code> | Yes | Yes | Yes |
| Full installation to upgrade from 4.1/4.1MP1/4.1MP2 for HP-UX 11iv2 | Installation and configuration through installer | Yes | No | Yes |
| Full installation for upgrade from 3.5 for HP-UX 11iv1 | OS upgrade followed by a full installation and configuration through installer | Yes | No | Yes |

New Installation or Full Installation using installer

A full installation can be done using the top level `installer` script. A system reboot may be required to install the products. To configure the installed product, the corresponding product installation script from `/opt/VRTS/install` directory can be executed with '-configure' option.

After mounting the Maintenance Pack disc, change to the directory of the product that need to be installed and follow the install instruction in the release notes. The Getting Started Guide and various install guides for the SF 5.0 release are available in PDF format on the software discs included in the SF 5.0 Maintenance Pack 2 release.

To install Veritas Storage Foundation/Storage Foundation HA (including Veritas File System, Veritas Volume Manager, Veritas Volume Replicator, and Veritas Enterprise Administrator)

- 1 Enter the following:
`cd /dvdrom/storage_foundation/release_notes`
- 2 Follow the instructions in the file `sf_notes.pdf`.

To install Veritas Storage Foundation for Oracle/Storage Foundation for Oracle HA

- 1 Enter the following:
`# cd /dvdrom/storage_foundation_for_oracle/release_notes`
- 2 Follow the instructions in the file `sf_notes.pdf`.

To install Veritas Storage Foundation Cluster File System/Storage Foundation Cluster File System HA

- 1 Enter the following:
`# cd /dvdrom/storage_foundation_cluster_file_system \`
`/release_notes`
- 2 Follow the instructions in the file `sf_cfs_notes.pdf`.

To install Veritas Storage Foundation for Oracle RAC

- 1 Enter the following:
`# cd /dvdrom/storage_foundation_for_oracle_rac \`
`/release_notes`
- 2 Follow the instructions in the file `sfrac_notes.pdf`.

To install Veritas Cluster Server or any Veritas Cluster Server High Availability Agent

- 1 Enter the following:
`# cd /dvdrom/cluster_server/release_notes`
- 2 Follow the instructions in the file `vcs_notes.pdf`.

Upgrading SFHA 5.0 or SFHA 5.0 MP1 to SFHA 5.0 MP2 using `installmp`

An upgrade of existing 5.0 or 5.0 Maintenance Pack 1 installation can be done using the `installmp` script. All Veritas product processes are stopped after running `installmp`. To ensure that processes restart correctly, a manual restart or system reboot may be required.

See the individual product release notes for information on how to restart processes, or how to uninstall a maintenance pack and return to the previous product version.

After mounting the Maintenance Pack disc or extracting the tar, change to the directory of the product you want to upgrade. See the product release notes for information on installation.

To upgrade Veritas Storage Foundation/Storage Foundation HA (including Veritas File System, Veritas Volume Manager, Veritas Volume Replicator, and Veritas Enterprise Administrator)

- 1 Enter the following:
`# cd /dvdrom/storage_foundation/release_notes`
- 2 Follow the instructions in the file `sf_notes.pdf`.

To upgrade Veritas Storage Foundation for Oracle/Storage Foundation for Oracle HA

- 1 Enter the following:
`# cd /dvdrom/storage_foundation_for_oracle/release_notes`
- 2 Follow the instructions in the file `sf_notes.pdf`.

To upgrade Veritas Storage Foundation Cluster File System/Storage Foundation Cluster File System HA

- 1 Enter the following:
`# cd /dvdrom/storage_foundation_cluster_file_system \`
`/release_notes`
- 2 Follow the instructions in the file `sf_cfs_notes.pdf`.

To upgrade Veritas Storage Foundation for Oracle RAC

- 1 Enter the following:
`# cd /dvdrom/storage_foundation_for_oracle_rac \`
`/release_notes`
- 2 Follow the instructions in the file `sfrac_notes.pdf`.

To upgrade Veritas Cluster Server or any Veritas Cluster Server High Availability Agent

- 1 Enter the following:
`# cd /dvdrom/cluster_server/release_notes`
- 2 Follow the instructions in the file `vcs_notes.pdf`.

