

Veritas Storage Foundation 5.1 for Windows Service Pack 2 WinLogo Certification Readme File

September 6, 2010

This document provides important information regarding the two products included in Veritas Storage Foundation and High Availability Solutions for Windows:

- Veritas Storage Foundation™ 5.1 Service Pack 2 (SFW)
- Veritas Storage Foundation™ HA 5.1 Service Pack 2 (SFW HA).

This Readme file has the following topics:

- [“Installation Requirements”](#)
- [“Installing using the Product Installer”](#)
- [“Installing from the Command Line”](#)
- [“Install Notes”](#)
- [“Uninstalling Using the Product Installer”](#)
- [“Uninstalling from the Command Line”](#)
- [“Uninstall Notes”](#)
- [“Notes about Files”](#)
- [“Custom Actions”](#)

For the latest information about requirements and product installation, refer to the installation and upgrade guide.

For the latest information about supported software, refer to the Software Compatibility List available here: <http://entsupport.symantec.com/docs/358406>

Installation Requirements

Review these product installation requirements before installing SFW or SFW HA.

Disk space requirements

For normal operation, all installations require a minimum of 50 MB of disk space in addition to the requirements listed in [Table 1-1](#) below.

[Table 1-1](#) summarizes approximate disk space requirements for SFW and SFW HA on 32-bit and 64-bit systems.

Table 1-1 Disk space requirements

Installation options	Install directory or drive 32-bit	Install directory or drive 64-bit
SFW + all options + client components	1430 MB	1860 MB
SFW + all options	1140 MB	1400 MB
SFW Client components	590 MB	560 MB
SFW HA + all options + client components	1950 MB	2370 MB
SFW HA + all options	1520 MB	1880 MB
SFW HA Client components	780 MB	650 MB

Operating system requirements

SFW and SFW HA have client and server components that run on specific Windows operating systems.

SFW and SFW HA software for servers

Your server must run one of the following operating systems to install the SFW or SFW HA server software:

- Windows Server 2003 (32-bit): Standard Edition, Enterprise Edition, or Datacenter Edition (SP2 required for all editions)

- Windows Server 2003 R2 (32-bit): Standard Edition, Enterprise Edition, or Datacenter Edition (SP2 required for all editions)
- Windows Server 2003 (32-bit): Web Edition: fully supports SFW and supports only file share for SFW HA (SP2 required for all editions)
- Windows Server 2003 for 64-bit Itanium (IA64): Enterprise Edition or Datacenter Edition (SP2 required for all editions)
- Windows Server 2003 x64 Editions (for AMD64 or Intel EM64T): Standard x64 Edition, Enterprise x64 Edition, or Datacenter x64 Edition (SP2 required for all editions)
- Windows Server 2003 x64 R2 Editions (for AMD64 or Intel EM64T): Standard x64 R2 Edition, Enterprise x64 R2 Edition, or Datacenter x64 R2 Edition (SP2 required for all editions)
- Windows Server 2008 (32-bit): Standard Edition, Enterprise Edition, or Datacenter Edition
- Windows Server 2008 for 64-bit Itanium (IA64): Server Edition
- Windows Server 2008 x64 Editions (for AMD64 or Intel EM64T): Standard x64 Edition, Enterprise x64 Edition, or Datacenter x64 Edition
- Windows Server 2008 R2 x64: Standard Edition, Enterprise Edition, Datacenter Edition

Note: SFW HA supports Windows Server 2008 R2 without Hyper-V x64: Standard Edition, Enterprise Edition, Datacenter Edition

- Windows Server 2008 R2 for IA Systems (IA64)
- Windows Server 2008 R2 x64: Web Edition
- Windows Storage Server 2003 R2 x86, x64: Standard Edition, Enterprise Edition (SP2 required)

SFW and SFW HA software for clients

Your client must run one of the following operating systems to install the SFW or SFW HA client software:

- Windows Server 2003 (32-bit): Standard Edition, Enterprise Edition, or Datacenter Edition (SP2 required for all editions)
- Windows Server 2003 R2 (32-bit): Standard Edition, Enterprise Edition, or Datacenter Edition (SP2 required for all editions)
- Windows Server 2003 for 64-bit Itanium (IA64): Enterprise Edition or Datacenter Edition (SP2 required for all editions)

- Windows Server 2003 for Intel Xeon (EM64T) or AMD Opteron: Standard x64 Edition, Enterprise x64 Edition, or Datacenter x64 Edition (SP2 required for all editions)
- Windows Server 2003 x64 Editions (for AMD64 or Intel EM64T): Standard x64 R2 Edition, Enterprise x64 R2 Edition, or Datacenter x64 R2 Edition (SP2 required for all editions)
- Windows Server 2008 (32-bit): Standard Edition, Enterprise Edition, or Datacenter Edition
- Windows Server 2008 for 64-bit Itanium (IA64): Server Edition
- Windows Server 2008 x64 Editions (for AMD64 or Intel EM64T): Standard x64 Edition, Enterprise x64 Edition, or Datacenter x64 Edition
- Windows XP Professional (SP2 or higher required)
- Windows Vista (32-bit) (SP1 supported): Business, Enterprise, and Ultimate editions
- Windows Vista (64-bit) (SP1 supported): Business, Enterprise, and Ultimate editions
- Windows 7 x86, x64: Ultimate Edition, Business Edition, Premium Edition

General requirements

Before you install the SFW or SFW HA software, verify that your configuration meets the following criteria and that you have reviewed the SFW 5.1 Hardware Compatibility List to confirm supported hardware:

<http://www.symantec.com/business/support/index.jsp>

Memory

1 GB of RAM required

System processor

Processor requirements are as follows:

32-bit

- 800-megahertz (MHz) Pentium III-compatible or faster processor
- 1GHz or faster processor recommended

x64

- 1GHz AMD Opteron, AMD Athlon 64, Intel Xeon with Intel EM64T support, Intel Pentium IV with EM64T support processor or faster

IA64

- 1GHz Itanium or faster processor
- 1GHz Dual-Core Intel Itanium 2 or faster processor

Display

Display requirements are as follows:

- Minimum resolution: 1024 x 768 pixels or higher
- VCS Cluster Manager (Java and Web Console) requires an 8-bit (256 colors) display and a graphics card that can render 2D images

Storage device compatibility

If you are not using Veritas Dynamic Multi-pathing or clustering (SFW HA or Microsoft clustering), SFW supports any device in the Microsoft Windows Server Catalog.

For Veritas Dynamic Multi-pathing and clustering configurations, refer to the Hardware Compatibility List to determine the approved hardware for SFW:

<http://www.symantec.com/business/support/index.jsp>

Note: If your storage devices are SCSI-3 compliant, and you wish to use SCSI-3 Persistent Group Reservations (PGR), you must enable SCSI-3 support using the Veritas Enterprise Administrator (VEA). See the Veritas Storage Foundation Administrator's Guide for more information.

Remote systems

You must have network access and appropriate administrative privileges to each remote computer. SFW HA and SFW with the VVR option do not support DHCP; they only support static IP addresses.

Veritas Volume Replicator static IP address

VVR requires a static IP for replication. Make sure the system has at least one IP Address configured that is not assigned by Dynamic Host Configuration Protocol (DHCP).

Single instance of SFW

Only one instance of Veritas Storage Foundation 5.1 for Windows should be running on a system.

Driver signing options

When installing on systems running Windows Server 2003, you must set the Windows driver signing option to ignore software authentication warning messages.

Veritas Cluster Server Management Console

Veritas Cluster Server Management Console is supported on the following browsers:

- Microsoft Internet Explorer 6.0.x, 7.0, or newer
- Firefox 1.5 , 2.0, or newer

Veritas Cluster Server Management Console requires the Macromedia Flash Plugin v8.0 or 9.0.

Firewall and anti-spyware

Disable spyware monitoring and removal software before installing SFW or SFW HA. Ensure that your firewall settings allow access to ports used by SFW HA wizards and services. For a detailed list of services and ports used by SFW HA, refer to the appendix in this guide (Veritas Storage Foundation and High Availability Solutions for Windows Installation and Upgrade Guide).

Requirements for Veritas Storage Foundation for Windows (SFW)

Supported software requirement

Veritas Storage Foundation 5.1 for Windows (SFW)

System requirements

System requirements for SFW are as follows:

- SCSI, Fibre Channel, iSCSI host bus adapters (HBAs), or iSCSI Initiator supported NICs to access shared storage
- 1 GB of RAM for each system

Permission requirements

You must be a member of the Local Administrators group for all nodes where you are installing.

Additional requirements

The following requirements must also be met.

- Installation media for all products and third-party applications
- Licenses for all products and third-party applications

Requirements for Veritas Storage Foundation High Availability for Windows (SFW HA)

Before installing Veritas Storage Foundation High Availability for Windows (SFW HA), ensure that you review the following:

- Review the general installation requirements for SFW HA in the *Veritas Storage Foundation and High Availability Solutions for Windows Installation and Upgrade Guide*.
- Review the SFW 5.1 Service Pack 2 Hardware Compatibility List to confirm supported hardware:
<http://entsupport.symantec.com/docs/358407>
For Exchange 2007, you can only cluster the Mailbox server role. You cannot install any other Exchange role on a VCS cluster node; otherwise, the cluster configuration wizard will fail. Refer to the Microsoft documentation for other Exchange requirements.
For disaster recovery for other roles such as Hub Transport or Client Access, Symantec recommends installing these roles at the disaster recovery site. Keep them online at the disaster recovery site so that they are available should a failover occur.
- When installing SFW HA for a Disaster Recovery configuration, ensure that you select the Global Clustering Option and depending on your replication solution select Veritas Volume Replicator or a hardware replication agent.
- When installing SFW HA for a Replicated Data Cluster configuration, ensure that you select the option to install Veritas Volume Replicator.

Supported Exchange 2007 versions

For the latest information on supported software, see the Software Compatibility list at:

<http://www.symantec.com/business/support/index.jsp>

[Table 1-4](#) lists the Microsoft Exchange Server 2007 versions supported with SFW HA 5.1 Service Pack 2.

System requirements for SFW HA

Table 1-4 Supported Microsoft Exchange Server 2007 versions

Exchange Server 2007	Windows Servers
Microsoft Exchange Server 2007 (SP1 or higher), Standard Edition or Enterprise Edition (Mailbox server role required)	<ul style="list-style-type: none"> ■ Windows Server 2003 x64 Standard Edition or Enterprise Edition (SP2 required for all editions) ■ Windows Server 2003 R2 x64 Standard Edition, Enterprise Edition (SP2 required for all editions) ■ Windows Server 2008 x64 Editions (for AMD64 or Intel EM64T): Standard x64 Edition, Enterprise x64 Edition, or Datacenter x64 Edition ■ Windows Server 2008 x64 R2 without Hyper-V on Standard, Enterprise, Datacenter Editions ■ Windows Server 2008 x64 R2 on Standard, Enterprise, Datacenter Editions (for physical host or guest, not parent partition/Hyper-V integration) ■ Windows Server 2008 R2 for IA Systems - IA64 ■ Windows Server 2008 x64 R2 Web Edition ■ Windows Server 2008 on all current editions and architectures Symantec currently supports (SP2 required) ■ Windows Storage Server 2008

Systems must meet the following requirements for SFW HA:

- Memory must be a minimum 1 GB of RAM per server for SFW HA.
- Memory must be a minimum 2 GB of RAM per server for Exchange 2007; refer to the Microsoft documentation for more information.
- Disk partitions must be formatted for the NTFS file system.
- Processor can be either a x64 architecture-based computer with Intel processor that supports Intel Extended Memory 64 Technology (Intel EM64T) or an AMD processor that supports the AMD64 platform; Intel Itanium family IA64 processors are not supported.
- Shared disks to support applications that migrate between nodes in the cluster. Campus clusters require more than one array for mirroring. Disaster recovery configurations require one array for each site. Replicated data clusters with no shared storage are also supported.

If your storage devices are SCSI-3 compliant, and you wish to use SCSI-3 Persistent Group Reservations (PGR), you must enable SCSI-3 support using the Veritas Enterprise Administrator (VEA). See the *Veritas Storage Foundation Administrator's Guide* for more information.

- SCSI, Fibre Channel, iSCSI host bus adapters (HBAs), or iSCSI Initiator supported NICs to access shared storage.
- A minimum of two NICs are required. One NIC will be used exclusively for private network communication between the nodes of the cluster. The second NIC will be used for both private cluster communications and for public access to the cluster. Symantec recommends three NICs. See “[Best practices for SFW HA](#)” on page 11.
- All servers must have the same system architecture, run the same operating system, and be at the same service pack (SP) level.

Network requirements for SFW HA

SFW HA has the following network requirements:

- Install SFW HA on servers in a Windows Server 2003 or Windows Server 2008 domain.
- Do not install SFW HA on servers that are assigned the role of a Domain Controller. Configuring a cluster on a domain controller is not supported.
- Ensure that your firewall settings allow access to ports used by SFW HA wizards and services. For a detailed list of services and ports used by SFW HA, refer to the *Veritas Storage Foundation and High Availability Solutions for Windows Installation and Upgrade Guide*.
- Static IP addresses for the following purposes:
 - Configure one static IP address available per site for each application virtual server.
 - A minimum of one static IP address for each physical node in the cluster.
 - One static IP address per cluster used when configuring Notification, the Cluster Management Console (web console), or the Global Cluster Option. The same IP address may be used for all options.
 - For VVR replication in a disaster recovery configuration, a minimum of one static IP address per site for each application instance running in the cluster.
 - For VVR replication in a Replicated Data Cluster configuration, a minimum of one static IP address per zone for each application instance running in the cluster.

- Configure name resolution for each node.
- Verify the availability of DNS Services. AD-integrated DNS or BIND 8.2 or higher are supported.
Make sure a reverse lookup zone exists in the DNS. Refer to the application documentation for instructions on creating a reverse lookup zone.
- DNS scavenging affects virtual servers configured in VCS because the Lanman agent uses Dynamic DNS (DDNS) to map virtual names with IP addresses. If you use scavenging, then you must set the `DNSRefreshInterval` attribute for the Lanman agent. This enables the Lanman agent to refresh the resource records on the DNS servers.
See the *Veritas Cluster Server Bundled Agents Reference Guide*.

Permission requirements for SFW HA

The following permissions are required:

- You must be a domain user.
- You must be logged on with the Exchange Organization Administrator role or you must have been delegated the permission to install the server through Setup's server provisioning process.
- You must be a member of the local Administrators group on all nodes where you are installing.
- You must have write permissions for the Active Directory objects corresponding to all the nodes.
- If you plan to create a new user account for the VCS Helper service, you must have Domain Administrator privileges or belong to the Account Operators group. If you plan to use an existing user account context for the VCS Helper service, you must know the password for the user account.

Additional requirements for SFW HA

Please review the following additional requirements:

- Installation media for all products and third-party applications.
- Licenses for all products and third-party applications.
- You must install the operating system in the same path on all systems. For example, if you install Windows Server 2003 on `C:\WINDOWS` of one node, installations on all other nodes must be on `C:\WINDOWS`. Make sure that the same drive letter is available on all nodes and that the system drive has adequate space for the installation.
- For a Replicated Data Cluster, install only in a single domain.

Best practices for SFW HA

Symantec recommends that you perform the following tasks:

- Verify that you have three network adapters (two NICs exclusively for the private network and one for the public network).
When using only two NICs, lower the priority of one NIC and use the low-priority NIC for public and private communication.
- Route each private NIC through a separate hub or switch to avoid single points of failure.
- NIC teaming is not supported for the private network.
- Verify that you have set the Dynamic Update option for the DNS server to Secure Only.
- Although you can use a single node cluster as the primary and secondary zones, you must create the disk groups as clustered disk groups. If you cannot create a clustered disk group due to the unavailability of disks on a shared bus, use the `vxclus UseSystemBus ON` command. This is applicable for a Replicated Data Cluster configuration.

Installing using the Product Installer

Note: For the purposes of Winlogo certification, one SFW license key and one SFW HA license key have been provided for installing the product. Enter the appropriate license key during the product installation.

Setting Windows driver signing options

Some drivers provided by Symantec may not be signed by Microsoft. Depending upon your installation options, these unsigned drivers may stop your installation.

When installing on systems running Windows Server 2003, you must set the Windows driver signing options to allow installation.

The following table describes the product installer behavior on local and remote systems when installing options with unsigned drivers on Windows Server 2003.

Table 1-5 Installation behavior with unsigned drivers

Driver Signing Setting	Installation behavior on the local system	Installation behavior on remote systems
Ignore	Always allowed	Always allowed
Warn	Warning message, user interaction required	Installation proceeds. The user must log on locally to the remote system to respond to the dialog box to complete the installation.
Block	Never allowed	Never allowed

On local systems set the driver signing option to either Ignore or Warn. On remote systems set the option to Ignore in order to allow the installation to proceed without user interaction.

Note: Windows Server 2008 does not allow you to change the driver signing option. Symantec provides an installation option to install a Symantec Trusted certificate to allow installation of Symantec drivers that are not certified by Microsoft. For details, see [“Installing Symantec Trusted certificate for unsigned drivers”](#) on page 13.

To change the driver signing options on each system

- 1 Log on locally to the system.
- 2 Open the Control Panel and click **System**.
- 3 Click the **Hardware** tab and click **Driver Signing**.
- 4 In the Driver Signing Options dialog box, note the current setting, and select **Ignore** or another option from the table that will allow installation to proceed.
- 5 Click **OK**.
- 6 Repeat for each computer.

If you do not change the driver signing option, the installation may fail on that computer during validation. After you complete the installation, reset the driver signing option to its previous state.

Installing Symantec Trusted certificate for unsigned drivers

The product installer provides an installation option for Symantec Trusted Software Publisher Certificate for Veritas Storage Foundation for Windows drivers that are not certified by Microsoft.

If you select this installation option, a Symantec Trusted certificate is installed on the systems you select for installation.

Warning: On Windows Server 2008, if this option is not selected, a remote install will not install any SFW drivers that are not certified by Microsoft. No notification is given and it will appear that installation was successful, but issues can arise later because the drivers were not installed.

If installing locally on Windows Server 2008, if this option is not selected, a driver signing popup will be displayed requiring user interaction.

If you select this option when installing on Windows Server 2003, you do not need to set the driver signing options to Warn or Ignore.

Installing Storage Foundation HA for Windows

Install Veritas Storage Foundation HA for Windows.

To install the product

- 1 Insert the DVD containing the installation software into your system's disk drive or download the installation software from the Symantec website.
- 2 Allow the autorun feature to start the installation or double-click **Setup.exe**. The Select Product screen appears.

- 3 Review the links on the Select Product screen.
Links on this screen access Late Breaking News, the Configuration Checker, as well as begin the process to install Storage Foundation HA for Windows. Click on **Read Late Breaking News** for the latest information about updates, patches, and software issues regarding this release.
- 4 Click **Storage Foundation HA 5.1 SP2 for Windows**.
- 5 Do one of the following:
 - Click **Complete/Custom** to begin installation.
 - Click the **Administrative Console** link to install only the client components.
- 6 Review the Welcome message and click **Next**.
- 7 Read the License Agreement by using the scroll arrows in the view window. If you agree to the license terms, click the radio button for **I AGREE TO the terms of the license agreement**, and then click **Next**.
- 8 Enter the product license key before adding license keys for features. Enter the license key in the top field and click **Add**.
If you do not have a license key, click **Next** to use the default evaluation license key. This license key is valid for a limited evaluation period only.
- 9 Repeat for additional license keys. Click **Next**
 - To remove a license key, click the key to select it and click **Remove**.
 - To see the license key's details, click the key.
- 10 Select the following for the installation and click **Next**.

Domain

Select a domain from the list.

Depending on domain and network size, speed, and activity, the domain and computer lists can take some time to populate.

Computer

To add a computer for installation, select it from the Computer list or type the computer's name in the Computer field. Then click **Add**.

To remove a computer after adding it, click the name in the Selected computers for installation field and click **Remove**.

Click a computer's name to see its description.

When installing the software on multiple computers in a single installation using the product installer, all computers must have the same platform type (for example, x86 or x64). However, the computers can have different Windows operating systems. For example, you can install the software on multiple computers at once running Windows 2003 and Windows 2008.

Install Path

Optionally, change the installation path.

- To change the path, select a computer in the Selected computers for installation field, type the new path, and click **Change**.
- To restore the default path, select a computer and click **Default**.

The default path is:

C:\Program Files\Veritas

For 64-bit installations, the default path is:

C:\Program Files (x86)\Veritas

- 11 When the domain controller and the computer running the installation program are on different subnets, the installer may be unable to locate the target computers. In this situation, after the installer displays an error message, enter the host names or the IP addresses of the missing computers manually.
- 12 The installer checks the prerequisites for the selected computers and displays the results. Review the information and click **Next**.
If a computer fails validation, address the issue, and repeat the validation. Click the computer in the list to display information about the failure. Click **Validate Again** to begin the validation process again.

- 13** Depending upon your earlier product installer selections and operating system, you may receive one or more of the following messages.

If you are using multiple paths and selected a specific DSM, you receive the Veritas Dynamic Multi-pathing warning:

The time to install the Veritas Dynamic Multi-pathing MPIO feature depends on the number of physical paths connected during the installation. To reduce installation time for this feature, Symantec recommends only one physical path connection during installation. After the installation completes, reconnect additional physical paths before rebooting the system.

If applicable to your installation, perform the above procedure.

If you are using multiple paths and selected a specific DSM on a Windows Server 2008 machine, you receive an additional message:

On Windows Server 2008, the Microsoft Multipath input/output (Microsoft MPIO) feature must be enabled before installing DMP Device Specific Modules (DSMs).

If applicable to your installation, perform the above second procedure.

When installing Veritas Storage Foundation for Windows (Server Components) with the MSCS option selected, you receive the following message:

When installing Veritas Storage Foundation 5.1 for Windows (Server Components) with the MSCS option, you may want MSCS Quorum Arbitration Time (Min. and Max) to be adjusted to ensure optimal functionality with Veritas dynamic volumes with MSCS.

For additional information, see the *Storage Foundation for Windows Administrator Guide* for details.

If applicable to your installation, perform the above procedure.

- 14** When finished reviewing the message or messages, click **OK**.
- 15** The Summary screen appears displaying an Install report. Review the information in the Install report. Click **Back** to make changes, if necessary. Click **Install** if information is validated.
- 16** The Installation Status screen displays status messages and the progress of the installation. If an installation fails, click **Next** to review the report and address the reason for failure. You may have to either repair the installation or uninstall and re-install.

- 17 When the installation completes, review the summary screen and click **Next**.
- 18 If you are installing on remote nodes, click **Reboot**. Note that you cannot reboot the local node now, and that failed nodes are unchecked by default. Click the check box next to the remote nodes that you want to reboot.
- 19 When the nodes have finished rebooting successfully, the Reboot Status shows Online and the **Next** button is available. Click **Next**.
- 20 Review the log files and click **Finish**.
- 21 Click **Yes** to reboot the local node.

Resetting Windows driver signing options

After completing the installation sequence, reset the driver signing options on each computer.

To reset the driver signing options

- 1 Open the Control Panel, and click **System**.
- 2 Click the **Hardware** tab and click **Driver Signing**.
- 3 In the Driver Signing Options dialog box, reset the option to **Warn** or **Block**.
- 4 Click **OK**.
- 5 Repeat for each computer.

Installing from the Command Line

You can perform a silent installation using the command line for the SFW and SFW HA software at the command prompt using the `Setup.exe` command. With a silent installation, you can install on one computer at a time.

Presented at the end of this section are two command examples showing the installation of the client (“[Silent installation example: SFW client](#)” on page 22) and server components (“[Silent installation example: SFW server](#)” on page 23).

To start the installation from the command window

- 1 Open a command window by clicking **Start > Run**.
- 2 Enter `cmd` in the Open field and click **OK**.
- 3 In the command window, navigate to the root directory of the product CD.
- 4 Use the following command syntax to install SFW:

```
Setup.exe /s INSTALL_MODE=InstallMode SOLUTION=Solution
[LICENSEKEY="LicenseKey"] [OPTIONS="a,b,c,..."]
[INSTALLDIR="InstallDirPath"] [NODE=SysA]
[REBOOT=RebootMode]
```

Where the maximum length of the argument string is 2,048 characters and the syntax is not case sensitive.

Parameters for Setup.exe

Information about the possible parameter values follows:

Parameter	Use
<code>/s</code>	Set for silent mode. If not set, boots the product installer GUI.
<code>INSTALL_MODE</code>	Set to indicate an installation or uninstallation. <code>1</code> = To install <code>5</code> = To uninstall Example: <code>INSTALL_MODE=1</code>

SOLUTION	<p>Set to the type of installation.</p> <ul style="list-style-type: none">1 = SFW Server2 = SFW HA Server3 = SFW Client4 = SFW HA Client5 = VCS Server (VCS Agent for NetApp SnapMirror installation)6 = VCS Client (VCS Agent for NetApp SnapMirror installation) <p>Example: SOLUTION=1</p> <p>Note: To install the server and matching client components, run two <code>setup.exe /s</code> commands sequentially, one with the SOLUTION parameter set for the server component and the other set for the matching client component. If you use a script to install the server and client, consider first installing the client and then the server, so that the script can reboot the system after server installation.</p>
LICENSEKEY	<p>Set the license key for the installation. Enter multiple keys by separating them with a comma—do <i>not</i> put spaces around the comma.</p> <p>The license key must start and end with a quotation mark (").</p> <p><i>LicenseKey</i> has no default setting.</p> <p>Example: LICENSEKEY="123-234-123-234-345,321-543-765-789-321"</p>
OPTIONS	<p>Set the desired options, if any, for the type of installation. The list of options must start and end with a quotation mark (").</p> <p>Note: There are no default settings.</p> <p>Example: OPTIONS="MSCS,VVR"</p>
INSTALLDIR	<p>Use only to set a non-default path for the installation directory. The path must start and end with a quotation mark (").</p> <p>The default setting, used when you do not specify a path, is <code>SystemDrive:\Program Files\Veritas</code></p> <p>Example: INSTALLDIR="C:\InstallationDirectory"</p>
NODE	<p>Set the node name. Specify only one node at a time.</p> <p>The local node is the default setting when the node is unspecified.</p> <p>Example: Node=SysA</p>

REBOOT

Setting for the automatic reboot of the system at the completion of the installation.

0 = No reboot

1 = Reboot

The default setting is 0 for no system reboot.

Example: **REBOOT=1**

Note: Reboot the system at the end of installation to ensure the correct installation of the SFW drivers for the server component. You do not have to reboot after installing the client components.

Available options

Option	Description	SFW	SFW HA
vvr	Volume Replicator (VVR) replicates data across multiple sites for disaster recovery	✓	✓
flashsnap	FlashSnap allows you to create and maintain split-mirror, persistent snapshots of volumes	✓	✓
vxcache	VxCACHE uses a portion of system memory to improve I/O performance	✓	✓
mcs	Cluster option for MSCS	✓	
gco	Global Cluster Option (GCO) enables you to link clusters to provide wide-area failover and disaster recovery.		✓
sql	Database agent for Microsoft SQL Server		✓
oracle	Database agent for Oracle		✓
srdf	Hardware replication agent for EMC SRDF		✓
truecopy	Hardware replication agent for Hitachi TrueCopy		✓
exchange	Enterprise agent for Microsoft Exchange		✓
mirrorview	Hardware replication agent for EMC MirrorView		✓

Option	Description	SFW	SFW HA
metromirror	Hardware replication agent for MetroMirror		✓
srdfstar	Hardware replication agent for EMC SRDF/Star		✓
V3PARAA	3PARDATA	✓	✓
VEQLOGIC	Dell EqualLogic array	✓	✓
VEMCSYMM	EMC Symmetrix/DMX	✓	✓
VEMCCLAR	EMC Clarion	✓	✓
VHDSAA	Hitachi TagmaStore/HP XP	✓	✓
VHDSAP	Hitachi 95xx-AMS-WM	✓	✓
VHPMSA2	HP 2000 array	✓	✓
VHPEVA	HP EVA-MSA	✓	✓
VIBMAADS	IBM DS8000/ESS	✓	✓
VIBMAP	IBM DS6000	✓	✓
VENGAP	IBM DS4000/SUN 6000	✓	✓
VIBMAPDS	IBM DS AP	✓	✓
VXIV	IBM XiV Storage System	✓	✓
VHUAWEIAP	HUAWEI S5300/S2300 array	✓	✓
VFUJITSUAA	FUJITSU ETERNUS 2000 array	✓	✓
VNETAPP	NETAPP	✓	✓
VPILLAR	PILLAR	✓	✓
VITARGET	Windows Storage Server 2003 R2 iSCSI	✓	✓
VXIOTECH	Xio Tech Array	✓	✓

Silent installation example: SFW client

This sample command installs the SFW Client, states that the installation path is `C:\InstallationDirectory`, and tells the system not to reboot at the end of the installation.

```
Setup.exe /s INSTALL_MODE=1 SOLUTION=3  
INSTALLDIR="C:\InstallationDirectory" REBOOT=0
```

Silent installation example: SFW server

This sample command installs the SFW Server with a license key of 123-234-123-234-345, along with the MSCS and VVR options and their license keys. It states that the installation path is C:\InstallationDirectory and tells the system to reboot at the end of the installation.

```
Setup.exe /s INSTALL_MODE=1 SOLUTION=1  
LICENSEKEY="123-234-123-234-345,321-543-765-789-321,  
321-543-765-789-789" OPTIONS="MSCS,VVR"  
INSTALLDIR="C:\InstallationDirectory" REBOOT=1
```

Silent installation example: remote installation of an SFW server

This sample command installs the SFW Server with a license key of 123-234-123-234-345, along with the MSCS and VVR options and their license keys. It states that the installation path on that computer is C:\InstallationDirectory, that the node it is installing to is SysA, and tells the system to reboot at the end of the installation.

```
Setup.exe /s INSTALL_MODE=1 SOLUTION=1  
LICENSEKEY="23-234-123-234-345,321-543-765-789-321,  
321-543-765-789-789" OPTIONS="MSCS,VVR"  
INSTALLDIR="C:\InstallationDirectory" NODE=SysA REBOOT=1
```

Install Notes

SFW's Event Notification Function

The Veritas Enterprise Administrator service does not allow SFW's event notification rules function to call a script that supports interaction with the desktop.

Microsoft considers a service that presents a GUI to be a Windows security exposure. If you plan to use this GUI feature in the event notification function, you must enable it.

Do the following steps to allow the service to interact with the desktop:

- 1 Access the Windows administrative tools by double-clicking **Administrative tools** in the Windows Control Panel.
- 2 Open the Services dialog by double-clicking **Services**.
- 3 Right-click the Veritas Enterprise Administrator Service and select **Properties** to access the properties of the service.
- 4 In the Properties dialog, click the **Log On** tab.
- 5 Check the checkbox for **Allow service to interact with desktop** and click **Apply** to apply the new setting.
- 6 Click **OK** to close the Properties dialog.
- 7 Right-click the Veritas Enterprise Administrator Service and select **Restart** to restart the service.

After completing the steps to allow the service, you can include interactive tasks in event notification rule sequences.

vxres.dll and MSCSRvgResource.dll Files

The vxres.dll and MSCSRvgResource.dll files do not get installed with other SFW product files under the Program Files directory. The vxres.dll and MSCSRvgResource.dll files are installed under the WINDOWS\Cluster directory.

User Principal Name (UPN) Format

User Principal Name (UPN) format is not supported in the login screen of SFW. Other formats may be used to login to SFW.

Running the Microsoft Application Verifier

Due to the push-install method used for SFW, the HighVersionLie of the Microsoft Application Verifier (version 3.4.0158) is not used. (A waiver is requested for this portion of the certification test.) Instead, SFW uses the following:

```
SERVER_INFO_101* pBuf;  
LPWSTR psz = const_cast<LPWSTR>(sMachineName.c_str());  
DWORD dw = ::NetServerGetInfo(psz, 101, (PBYTE*)&pBuf);  
  
if (dw != NERR_Success)  
    return dw; // machine not accessible  
// cache values obtained.  
m_dwVersionMajor = pBuf->sv101_version_major;  
m_dwVersionMinor = pBuf->sv101_version_minor;
```

Correct operation of the installer for SFW can be demonstrated by performing an installation on Microsoft Windows Server 2008. With Microsoft Windows Server 2008, the installation halts with a dialog box stating that the operating system version is not supported.

Running SFW with HighVersionLie (major value greater than 5), SFW's VXVM service terminates gracefully. The termination is logged in the vm_vxisis.log. An example of this kind of entry would be:

```
10/17/2006 10:33:04 AM:1912:SysProv - exit vxsvc process due to  
unsupported os version 7
```

Third-Party Binaries Not Signed

Certification requires that all the binaries installed by the application must be signed. However, the following third-party binaries do not comply with this requirement.

SFW

- C:\msdia80.dll
- %SystemDrive%\%InstallationDirectory%\Common Files\VERITAS\VRTSicsco\msvcp71.dll
- %SystemDrive%\%InstallationDirectory%\Common Files\VERITAS\VRTSicsco\msvcr71.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\JavaAccessBridge.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\JAWTAccessBridge.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\msvcp71.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\msvcr71.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\SysPro.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6ag50.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6bl50.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6cd50.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6cl50.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6dg50.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6hl50.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6ja50.dll

- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6jx50.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6mg50.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6nl50.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6ol50.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6sl50.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6tl50.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6ut50.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6ag50.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6cl50.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6dg50.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6hl50.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6mg50.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6ol50.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6sl50.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6tl50.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6ut50.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\WindowsAccessBridge.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\eat\bin\comerr32.dll

- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\eat\bin\gssapi32.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\eat\bin\k5sprt32.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\eat\bin\krb5_32.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\eat\bin\msvc71.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\eat\bin\msvcr71.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\awt.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\axbridge.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\client\jvm.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\cmm.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\dcpr.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\deploy.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\dt_shmem.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\dt_socket.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\eula.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\fontmanager.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\hpi.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\hprof.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\instrument.dll

- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\ioser12.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\j2psc.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\j2pkcs11.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\jaas_nt.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\java.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\java_crw_demo.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\javacpl.cpl
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\jaws.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\JdbcOdbc.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\jdpw.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\jkernel.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\jli.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\jp2iexp.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\jp2native.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\jp2ssv.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\jpeg.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\jpicom.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\jpiexp.dll

- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\jpinscp.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\jpioji.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\jpishare.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\jsound.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\jsoundds.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\management.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\mlib_image.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\msvcr71.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\msvcrt.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\net.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\nio.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\npoji610.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\npt.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\regutils.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\rmi.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\splashscreen.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\sunmscapi.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\unpack.dll

- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\verify.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\w2k_lsa_auth.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\wsdetect.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\bin\zip.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\lib\deploy\jqs\ie\jqs_plugin.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\lib\deploy\lzma.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Volume Manager 5.1\msvcr71.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Volume Manager 5.1\msvcr80.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Volume Manager 5.1\vc7\bin\msvcr71.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Volume Manager 5.1\vxlicinst.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Volume Manager 5.1\vxlicrep.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\awt.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\axbridge.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\client\jvm.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\cmm.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\dcpr.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\deploy.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\dt_shmem.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\dt_socket.dll

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\eula.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\fontmanager.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\hpi.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\hprof.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\instrument.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\ioser12.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\j2pkcs11.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\jaas_nt.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\java.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\java.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\java_crw_demo.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\javac.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\javacpl.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\javaw.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\JavaWebStart.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\javaws.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\jaws.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\JdbcOdbc.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\jdwp.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\jpeg.dll

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\jpicom32.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\jpicpl32.cpl
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\jpiexp32.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\jpinscp.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\jpioji.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\jpishare.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\jsound.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\jsounds.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\juchek.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\jusched.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\keytool.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\kinit.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\klist.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\ktab.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\management.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\net.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\nio.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\NPJava11.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\NPJava12.dll

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\NPJava13.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\NPJava14.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\NPJava32.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\NPJPI150_15.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\NPOJI610.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\orbd.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\pack200.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\policytool.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\RegUtils.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\rmi.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\rmid.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\rmiregistry.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\server\jvm.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\servertool.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\ssv.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\tnameserv.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\unpack.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\unpack200.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\verify.dll

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\w2k_ls_a_auth.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSjre\jre1.5\bin\zip.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSobc\pal33\bin\comerr32.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSobc\pal33\bin\gssapi32.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSobc\pal33\bin\k5sprt32.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSobc\pal33\bin\krb5_32.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSobc\pal33\bin\msvcp71.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSobc\pal33\bin\msvcr71.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VxPBX\bin\msvcp71.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VxPBX\bin\msvcr71.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Shared\VP\{F834E070-8D71-4c4b-B688-06964B88F3E8}\%VPIBuildVersion%\MFC42UD.DLL
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Shared\VP\{F834E070-8D71-4c4b-B688-06964B88F3E8}\%VPIBuildVersion%\msvcp60d.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Shared\VP\{F834E070-8D71-4c4b-B688-06964B88F3E8}\%VPIBuildVersion%\msvcp71d.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Shared\VP\{F834E070-8D71-4c4b-B688-06964B88F3E8}\%VPIBuildVersion%\msvcr70.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Shared\VP\{F834E070-8D71-4c4b-B688-06964B88F3E8}\%VPIBuildVersion%\msvcr71.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Shared\VP\{F834E070-8D71-4c4b-B688-06964B88F3E8}\%VPIBuildVersion%\msvcr71d.dll

- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Shared\VPI\{F834E070-8D71-4c4b-B688-06964B88F3E8}\%VPIBuildVersion%\MSVCRTD.DLL
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Shared\VPI\{F834E070-8D71-4c4b-B688-06964B88F3E8}\pkgs\64\common\certmgr.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\A2p.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\msvcr71.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\perl.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\perl5.8.7.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\perl58.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\perlglob.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\wperl.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\attrs\attrs.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\B\B.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\B\C\C.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\ByteLoader\ByteLoader.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Cwd\Cwd.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Data\Dumper\Dumper.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Devel\DProf\DProf.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Devel\Peek\Peek.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Devel\PPort\PPort.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Digest\MD4\MD4.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Digest\MD5\MD5.dll

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\Byte\Byte.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\CN\CN.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\EBCDIC\EBCDIC.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\Encode.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\JP\JP.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\KR\KR.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\Symbol\Symbol.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\TW\TW.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\Unicode\Unicode.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Fcnt\Fcntl.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\File\Glob\Glob.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Filter\Util\Call\Call.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\IO\IO.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto>List\Util\Util.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\MIME\Base64\Base64.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Opcode\Opcode.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\PerIO\encoding\encoding.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\PerIO\scalar\scalar.dll

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\PerlIO\via\via.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\POSIX\POSIX.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\re\re.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\SDBM_File\SDBM_File.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Socket\Socket.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Storable\Storable.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Sys\Hostname\Hostname.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Sys\Syslog\PerlLog.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Sys\Syslog\Syslog.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Thread\Thread.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\threads\shared\shared.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\threads\threads.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Time\HiRes\HiRes.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Unicode\Normalize\Normalize.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Win32\Win32.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\XS\APItest\APItest.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\XS\Type\map\Typemap.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Compress\Zlib\Zlib.dll

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Digest\MD2\MD2.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Digest\SHA1\SHA1.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\HTML\Parser\Parser.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Params\Validate\Validate.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Term\ReadKey\ReadKey.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Canvas\Canvas.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Compound\Compound.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\DragDrop\Win32Site\Win32Site.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Entry\Entry.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Event\Event.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\HList\HList.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\IO\IO.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\JPEG\JPEG.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Listbox\Listbox.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Menubutton\Menubutton.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\NBFrame\NBFrame.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Pixmap\Pixmap.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\PNG\PNG.dll

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Scale\Scale.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Scrollbar\Scrollbar.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Text\Text.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\TixGrid\TixGrid.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Tk.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\TList\TList.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\X\X.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Xlib\Xlib.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Unicode\String\String.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\API\API.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\API\Callback\Callback.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\ChangeNotify\ChangeNotify.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Clipboard\Clipboard.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Console\Console.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Event\Event.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\EventLog\EventLog.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\File\File.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\FileSecurity\FileSecurity.dll

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Internet\Internet.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\IPC\IPC.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Job\Job.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Mutex\Mutex.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\NetAdmin\NetAdmin.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\NetResource\NetResource.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\ODBC\ODBC.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\OLE\OLE.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\PerfLib\PerfLib.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Pipe\Pipe.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Process\Process.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Registry\Registry.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Semaphore\Semaphore.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Service\Service.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Shortcut\Shortcut.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Sound\Sound.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Win32.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\WinError\WinError.dll

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32API\File\File.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32API\Net\Net.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32API\Registry\Registry.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\XML\Parser\Expat\Expat.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\XML\Parser\Expat\libexpat.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\bin\msvcp71.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\bin\msvcr71.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\bin\perl58.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\bin\secwrapper.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\bin\vdid_api.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\bin\vdid_shr.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\bin\vxlicrep.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\B\B.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Compress\Zlib\Zlib.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Cwd\Cwd.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Data\Dumper\Dumper.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Digest\MD5\MD5.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\Byte\Byte.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\CN\CN.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\EBCDIC\EBCDIC.dll

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\Encode.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\JP\JP.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\KR\KR.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\Symbol\Symbol.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\TW\TW.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\Unicode\Unicode.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Fcntl\Fcntl.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\File\Glob\Glob.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Filter\Util\Call\Call.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\IO\IO.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto>List\Util\Util.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\MIME\Base64\Base64.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Params\Validate\Validate.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\PerLIO\encoding\encoding.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\POSIX\POSIX.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\re\re.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Socket\Socket.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Storable\Storable.dll

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Sys\Hostname\Hostname.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\threads\shared\shared.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\threads\threads.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Time\HiRes\HiRes.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32\Process\Process.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32\Registry\Registry.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32\Win32.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32\WinError\WinError.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32API\File\File.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32API\Net\Net.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32API\Registry\Registry.dll
- %SystemDrive%\Windows\SysWOW64\MFC71.DLL
- %SystemDrive%\Windows\SysWOW64\MSVCP71.DLL
- %SystemDrive%\Windows\SysWOW64\MSVCR71.DLL
- %SystemDrive%\Windows\winsxs\amd64_microsoft.vc80.atl_1fc8b3b9a1e18e3b_8.0.50727.762_none_ca3f79d486b08636\ATL80.dll
- %SystemDrive%\Windows\winsxs\amd64_microsoft.vc80.crt_1fc8b3b9a1e18e3b_8.0.50727.762_none_c905be8887838ff2\msvcm80.dll
- %SystemDrive%\Windows\winsxs\amd64_microsoft.vc80.crt_1fc8b3b9a1e18e3b_8.0.50727.762_none_c905be8887838ff2\msvcp80.dll
- %SystemDrive%\Windows\winsxs\amd64_microsoft.vc80.crt_1fc8b3b9a1e18e3b_8.0.50727.762_none_c905be8887838ff2\msvcr80.dll
- %SystemDrive%\Windows\winsxs\amd64_microsoft.vc80.mfc_1fc8b3b9a1e18e3b_8.0.50727.762_none_c46a533c8a667ee7\mfc80.dll

- %SystemDrive%\Windows\winsxs\amd64_microsoft.vc80.mfc_1fc8b3b9a1e18e3b_8.0.50727.762_none_c46a533c8a667ee7\mfc80u.dll
- %SystemDrive%\Windows\winsxs\amd64_microsoft.vc80.mfc_1fc8b3b9a1e18e3b_8.0.50727.762_none_c46a533c8a667ee7\mfcm80.dll
- %SystemDrive%\Windows\winsxs\amd64_microsoft.vc80.mfc_1fc8b3b9a1e18e3b_8.0.50727.762_none_c46a533c8a667ee7\mfcm80u.dll
- %SystemDrive%\Windows\winsxs\amd64_microsoft.vc80.mfcloc_1fc8b3b9a1e18e3b_8.0.50727.762_none_fc42961a63b5a82b\mfc80CHS.dll
- %SystemDrive%\Windows\winsxs\amd64_microsoft.vc80.mfcloc_1fc8b3b9a1e18e3b_8.0.50727.762_none_fc42961a63b5a82b\mfc80CHT.dll
- %SystemDrive%\Windows\winsxs\amd64_microsoft.vc80.mfcloc_1fc8b3b9a1e18e3b_8.0.50727.762_none_fc42961a63b5a82b\mfc80DEU.dll
- %SystemDrive%\Windows\winsxs\amd64_microsoft.vc80.mfcloc_1fc8b3b9a1e18e3b_8.0.50727.762_none_fc42961a63b5a82b\mfc80ENU.dll
- %SystemDrive%\Windows\winsxs\amd64_microsoft.vc80.mfcloc_1fc8b3b9a1e18e3b_8.0.50727.762_none_fc42961a63b5a82b\mfc80ESP.dll
- %SystemDrive%\Windows\winsxs\amd64_microsoft.vc80.mfcloc_1fc8b3b9a1e18e3b_8.0.50727.762_none_fc42961a63b5a82b\mfc80FRA.dll
- %SystemDrive%\Windows\winsxs\amd64_microsoft.vc80.mfcloc_1fc8b3b9a1e18e3b_8.0.50727.762_none_fc42961a63b5a82b\mfc80ITA.dll
- %SystemDrive%\Windows\winsxs\amd64_microsoft.vc80.mfcloc_1fc8b3b9a1e18e3b_8.0.50727.762_none_fc42961a63b5a82b\mfc80JPN.dll
- %SystemDrive%\Windows\winsxs\amd64_microsoft.vc80.mfcloc_1fc8b3b9a1e18e3b_8.0.50727.762_none_fc42961a63b5a82b\mfc80KOR.dll
- %SystemDrive%\Windows\winsxs\amd64_microsoft.vc80.openmp_1fc8b3b9a1e18e3b_8.0.50727.762_none_338673a60d08dbcc\vcomp.dll
- %SystemDrive%\Windows\winsxs\x86_microsoft.vc80.atl_1fc8b3b9a1e18e3b_8.0.50727.762_none_11ecb0ab9b2caf3c\ATL80.dll
- %SystemDrive%\Windows\winsxs\x86_microsoft.vc80.crt_1fc8b3b9a1e18e3b_8.0.50727.762_none_10b2f55f9bffb8f8\msvcm80.dll
- %SystemDrive%\Windows\winsxs\x86_microsoft.vc80.crt_1fc8b3b9a1e18e3b_8.0.50727.762_none_10b2f55f9bffb8f8\msvcp80.dll
- %SystemDrive%\Windows\winsxs\x86_microsoft.vc80.crt_1fc8b3b9a1e18e3b_8.0.50727.762_none_10b2f55f9bffb8f8\msvcr80.dll
- %SystemDrive%\Windows\winsxs\x86_microsoft.vc80.mfc_1fc8b3b9a1e18e3b_8.0.50727.762_none_0c178a139ee2a7ed\mfc80.dll

- %SystemDrive%\Windows\winsxs\x86_microsoft.vc80.mfc_1fc8b3b9a1e18e3b_8.0.50727.762_none_0c178a139ee2a7ed\mfc80u.dll
- %SystemDrive%\Windows\winsxs\x86_microsoft.vc80.mfc_1fc8b3b9a1e18e3b_8.0.50727.762_none_0c178a139ee2a7ed\mfcm80.dll
- %SystemDrive%\Windows\winsxs\x86_microsoft.vc80.mfc_1fc8b3b9a1e18e3b_8.0.50727.762_none_0c178a139ee2a7ed\mfcm80u.dll
- %SystemDrive%\Windows\winsxs\x86_microsoft.vc80.mfcloc_1fc8b3b9a1e18e3b_8.0.50727.762_none_43efccf17831d131\mfc80CHS.dll
- %SystemDrive%\Windows\winsxs\x86_microsoft.vc80.mfcloc_1fc8b3b9a1e18e3b_8.0.50727.762_none_43efccf17831d131\mfc80CHT.dll
- %SystemDrive%\Windows\winsxs\x86_microsoft.vc80.mfcloc_1fc8b3b9a1e18e3b_8.0.50727.762_none_43efccf17831d131\mfc80DEU.dll
- %SystemDrive%\Windows\winsxs\x86_microsoft.vc80.mfcloc_1fc8b3b9a1e18e3b_8.0.50727.762_none_43efccf17831d131\mfc80ENU.dll
- %SystemDrive%\Windows\winsxs\x86_microsoft.vc80.mfcloc_1fc8b3b9a1e18e3b_8.0.50727.762_none_43efccf17831d131\mfc80ESP.dll
- %SystemDrive%\Windows\winsxs\x86_microsoft.vc80.mfcloc_1fc8b3b9a1e18e3b_8.0.50727.762_none_43efccf17831d131\mfc80FRA.dll
- %SystemDrive%\Windows\winsxs\x86_microsoft.vc80.mfcloc_1fc8b3b9a1e18e3b_8.0.50727.762_none_43efccf17831d131\mfc80ITA.dll
- %SystemDrive%\Windows\winsxs\x86_microsoft.vc80.mfcloc_1fc8b3b9a1e18e3b_8.0.50727.762_none_43efccf17831d131\mfc80JPN.dll
- %SystemDrive%\Windows\winsxs\x86_microsoft.vc80.mfcloc_1fc8b3b9a1e18e3b_8.0.50727.762_none_43efccf17831d131\mfc80KOR.dll
- %SystemDrive%\Windows\winsxs\x86_microsoft.vc80.openmp_1fc8b3b9a1e18e3b_8.0.50727.762_none_7b33aa7d218504d2\vccomp.dll

SFW HA

- %SystemDrive%\%InstallationDirectory%\Common Files\VERITAS\Security\Authentication\bin\comerr32.dll
- %SystemDrive%\%InstallationDirectory%\Common Files\VERITAS\Security\Authentication\bin\gssapi32.dll
- %SystemDrive%\%InstallationDirectory%\Common Files\VERITAS\Security\Authentication\bin\k5sprt32.dll
- %SystemDrive%\%InstallationDirectory%\Common Files\VERITAS\Security\Authentication\bin\krb5_32.dll

- %SystemDrive%\%InstallationDirectory%\Common Files\VERITAS\Security\Authentication\bin\msvcp71.dll
- %SystemDrive%\%InstallationDirectory%\Common Files\VERITAS\Security\Authentication\bin\msvcr71.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\attach.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\awt.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\axbridge.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\client\jvm.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\cmm.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\dcpr.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\deploy.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\deploytk.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\dt_shmem.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\dt_socket.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\eula.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\fontmanager.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\hpi.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\hprof.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\instrument.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\ioser12.dll

- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\j2psc.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\j2pkcs11.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\jaas_nt.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\java.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\java.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\java_crw_demo.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\javacpl.cpl
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\javacpl.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\java-rmi.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\javaw.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\javaws.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\jawt.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\jbroker.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\JdbcOdbc.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\jdwp.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\jkernel.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\jli.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\jp2iexp.dll

- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\jp2launcher.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\jp2native.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\jp2ssv.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\jpeg.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\jpicom.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\jpiexp.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\jpinscp.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\jpioji.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\jpishare.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\jqs.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\jqsnotify.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\jsound.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\jsoundds.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\jucheck.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\jureg.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\jusched.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\keytool.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\kinit.exe

- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\klist.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\ktab.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\management.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\mlib_image.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\msvcr71.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\msvcrt.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\net.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\new_plugin\msvcr71.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\new_plugin\npj2.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\nio.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\npdeploytk.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\npjpi160_11.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\npoji610.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\npt.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\orbd.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\pack200.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\policytool.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\regutils.dll

- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\rmi.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\rmid.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\rmiregistry.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\server\jvm.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\servertool.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\plashscreen.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\ssv.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\ssvagent.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\sunmscapi.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\tnameserv.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\unpack.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\unpack200.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\verify.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\w2k_lsa_auth.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\wsdetect.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\bin\zip.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\lib\deploy\jqs\ie\jqs_plugin.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\lib\launcher.exe

- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\lib\msvcr70.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\UUID\bin\msvcr71.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSweb\admin\root5\vrtswebinfo.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSweb\bin\install\VRTSweb.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSweb\bin\install\weba_{pp}svc.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSweb\bin\monitorApp.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSweb\bin\startApp.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSweb\bin\stopApp.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSweb\bin\vrtswebinfo.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSweb\bin\webgui.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSweb\catalina5\common\i18n\vrtswebinfo.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSweb\catalina5\common\lib\vrtswebinfo.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSweb\catalina5\conf\vrtswebinfo.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSweb\catalina5\lib\vrtswebinfo.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSweb\catalina5\server\lib\vrtswebinfo.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSweb\catalina5\vrtswebinfo.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSweb\conf\vrtswebinfo.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSweb\lib\JNI_k2util.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSweb\messages\props\vrts\tomcat\vrtswebinfo.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Security\Authentication\bin\msvcp71.dll

- %SystemDrive%\%InstallationDirectory%\Veritas\Security\Authentication\bin\msvcr71.dll

Third-Party Binaries without Version Information

Certification requires that all the binaries installed by the application must have version information. However, the following third-party binaries do not comply with this requirement.

SFW

- %SystemDrive%\%InstallationDirectory%\Symantec\LiveUpdate\UNRAR.DLL does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\JavaAccessBridge.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\JAWTAccessBridge.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6ag50.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6ag50.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6ag50.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6bl50.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6bl50.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6bl50.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6cd50.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6cd50.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6cd50.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6cl50.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6cl50.dll does not have a valid "Product name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6cl50.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6dg50.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6dg50.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6dg50.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6hl50.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6hl50.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6hl50.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6ja50.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6ja50.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6ja50.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6jx50.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6jx50.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6jx50.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6mg50.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6mg50.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6mg50.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6nl50.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6nl50.dll does not have a valid "Product name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6nl50.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6ol50.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6ol50.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6ol50.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6sl50.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6sl50.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6sl50.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6tl50.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6tl50.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6tl50.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6ut50.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6ut50.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsj6ut50.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6ag50.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6ag50.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6ag50.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6cl50.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6cl50.dll does not have a valid "Product name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6cl50.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6dg50.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6dg50.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6dg50.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6hl50.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6hl50.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6hl50.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6mg50.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6mg50.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6mg50.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6ol50.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6ol50.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6ol50.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6sl50.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6sl50.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6sl50.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6tl50.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6tl50.dll does not have a valid "Product name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6t150.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6ut50.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6ut50.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\tsjj6ut50.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\bin\WindowsAccessBridge.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\lib\deploy\lzma.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\lib\deploy\lzma.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Object Bus\jre\lib\deploy\lzma.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Shared\VPI\{F834E070-8D71-4c4b-B688-06964B88F3E8}\pkgs\64\common\LUSETUP.EXE does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Shared\VPI\{F834E070-8D71-4c4b-B688-06964B88F3E8}\pkgs\64\common\LUSETUP.EXE does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Shared\VPI\{F834E070-8D71-4c4b-B688-06964B88F3E8}\pkgs\64\common\LUSETUP.EXE does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\2p.exe does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\2p.exe does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\2p.exe does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\perl.exe does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\perl.exe does not have a valid "Product name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\perl.exe does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\perl5.8.7.exe does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\perl5.8.7.exe does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\perl5.8.7.exe does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\perl58.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\perl58.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\perl58.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\perlglob.exe does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\perlglob.exe does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\perlglob.exe does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\wperl.exe does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\wperl.exe does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\bin\wperl.exe does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\attrs\attrs.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\attrs\attrs.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\attrs\attrs.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\B\B.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\B\B.dll does not have a valid "Product name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\B\B.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\B\C\C.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\B\C\C.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\B\C\C.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\ByteLoader\ByteLoader.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\ByteLoader\ByteLoader.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\ByteLoader\ByteLoader.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Cwd\Cwd.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Cwd\Cwd.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Cwd\Cwd.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Data\Dumper\Dumper.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Data\Dumper\Dumper.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Data\Dumper\Dumper.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Devel\DProf\DProf.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Devel\DProf\DProf.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Devel\DProf\DProf.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Devel\Peek\Peek.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Devel\Peek\Peek.dll does not have a valid "Product name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Devel\Peek\Peek.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Devel\PPort\PPPport.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Devel\PPort\PPPport.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Devel\PPort\PPPport.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Digest\MD4\MD4.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Digest\MD4\MD4.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Digest\MD4\MD4.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Digest\MD5\MD5.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Digest\MD5\MD5.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Digest\MD5\MD5.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\Byte\Byte.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\Byte\Byte.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\Byte\Byte.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\CN\CN.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\CN\CN.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\CN\CN.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\EBCDIC\EBCDIC.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\EBCDIC\EBCDIC.dll does not have a valid "Product name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\EBCDIC\EBCDIC.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\Encode.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\Encode.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\Encode.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\JP\JP.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\JP\JP.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\JP\JP.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\KR\KR.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\KR\KR.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\KR\KR.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\Symbol\Symbol.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\Symbol\Symbol.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\Symbol\Symbol.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\TW\TW.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\TW\TW.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\TW\TW.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\Unicode\Unicode.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\Unicode\Unicode.dll does not have a valid "Product name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Encode\Unicode\Unicode.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Fcnt\Fcntl.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Fcnt\Fcntl.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Fcnt\Fcntl.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\File\Glob\Glob.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\File\Glob\Glob.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\File\Glob\Glob.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Filter\Util\Call\Call.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Filter\Util\Call\Call.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Filter\Util\Call\Call.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\IO\IO.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\IO\IO.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\IO\IO.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto>List\Util\Util.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto>List\Util\Util.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto>List\Util\Util.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\MIME\Base64\Base64.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\MIME\Base64\Base64.dll does not have a valid "Product name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\MIME\Base64\Base64.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Opcode\Opcode.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Opcode\Opcode.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Opcode\Opcode.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\PerIO\encoding\encoding.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\PerIO\encoding\encoding.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\PerIO\encoding\encoding.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\PerIO\scalar\scalar.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\PerIO\scalar\scalar.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\PerIO\scalar\scalar.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\PerIO\via\via.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\PerIO\via\via.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\PerIO\via\via.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\POSIX\POSIX.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\POSIX\POSIX.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\POSIX\POSIX.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\re\re.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\re\re.dll does not have a valid "Product name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\re\re.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\SDBM_File\SDBM_File.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\SDBM_File\SDBM_File.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\SDBM_File\SDBM_File.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Socket\Socket.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Socket\Socket.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Socket\Socket.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Storable\Storable.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Storable\Storable.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Storable\Storable.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Sys\Hostname\Hostname.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Sys\Hostname\Hostname.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Sys\Hostname\Hostname.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Sys\Syslog\PerlLog.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Sys\Syslog\PerlLog.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Sys\Syslog\PerlLog.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Sys\Syslog\Syslog.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Sys\Syslog\Syslog.dll does not have a valid "Product name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Sys\Syslog\Syslog.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Thread\Thread.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Thread\Thread.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Thread\Thread.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\threads\shared\shared.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\threads\shared\shared.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\threads\shared\shared.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\threads\threads.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\threads\threads.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\threads\threads.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Time\HiRes\HiRes.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Time\HiRes\HiRes.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Time\HiRes\HiRes.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Unicode\Normalize\Normalize.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Unicode\Normalize\Normalize.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Unicode\Normalize\Normalize.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Win32\Win32.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Win32\Win32.dll does not have a valid "Product name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\Win32\Win32.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\XS\APItest\APItest.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\XS\APItest\APItest.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\XS\APItest\APItest.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\XS\Type map\Typemap.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\XS\Type map\Typemap.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\lib\auto\XS\Type map\Typemap.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Compress\Zlib\Zlib.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Compress\Zlib\Zlib.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Compress\Zlib\Zlib.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Digest\MD2\MD2.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Digest\MD2\MD2.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Digest\MD2\MD2.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Digest\SHA1\SHA1.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Digest\SHA1\SHA1.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Digest\SHA1\SHA1.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\HTML\Parser\Parser.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\HTML\Parser\Parser.dll does not have a valid "Product name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\HTML\Parser\Parser.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Params\Validate\Validate.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Params\Validate\Validate.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Params\Validate\Validate.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Term\ReadKey\ReadKey.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Term\ReadKey\ReadKey.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Term\ReadKey\ReadKey.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Canvas\Canvas.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Canvas\Canvas.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Canvas\Canvas.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Compound\Compound.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Compound\Compound.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Compound\Compound.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\DragDrop\Win32Site\Win32Site.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\DragDrop\Win32Site\Win32Site.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\DragDrop\Win32Site\Win32Site.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Entry\Entry.dll does not have a valid "Company name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Entry\Entry.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Entry\Entry.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Event\Event.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Event\Event.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Event\Event.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\HList\HList.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\HList\HList.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\HList\HList.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\IO\IO.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\IO\IO.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\IO\IO.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\JPEG\JPEG.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\JPEG\JPEG.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\JPEG\JPEG.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Listbox\Listbox.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Listbox\Listbox.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Listbox\Listbox.dll does not have a valid "Product Version" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Menubutton\Menubutton.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Menubutton\Menubutton.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Menubutton\Menubutton.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\NBFrame\NBFrame.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\NBFrame\NBFrame.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\NBFrame\NBFrame.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Pixmap\Pixmap.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Pixmap\Pixmap.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Pixmap\Pixmap.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\PNG\PNG.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\PNG\PNG.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\PNG\PNG.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Scale\Scale.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Scale\Scale.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Scale\Scale.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Scrollbar\Scrollbar.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Scrollbar\Scrollbar.dll does not have a valid "Product name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Scrollbar\Scrollbar.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Text\Text.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Text\Text.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Text\Text.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\TixGrid\TixGrid.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\TixGrid\TixGrid.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\TixGrid\TixGrid.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\TList\TList.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\TList\TList.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\TList\TList.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\X\X.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\X\X.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\X\X.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Xlib\Xlib.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Xlib\Xlib.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Tk\Xlib\Xlib.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Unicode\String\String.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Unicode\String\String.dll does not have a valid "Product name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Unicode\String\String.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\API\API.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\API\API.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\API\API.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\API\Callback\Callback.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\API\Callback\Callback.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\API\Callback\Callback.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\ChangeNotify\ChangeNotify.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\ChangeNotify\ChangeNotify.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\ChangeNotify\ChangeNotify.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Clipboard\Clipboard.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Clipboard\Clipboard.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Clipboard\Clipboard.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Console\Console.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Console\Console.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Console\Console.dll does not have a valid "Product Version" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Event\Event.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Event\Event.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Event\Event.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\EventLog\EventLog.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\EventLog\EventLog.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\EventLog\EventLog.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\File\File.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\File\File.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\File\File.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\FileSecurity\FileSecurity.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\FileSecurity\FileSecurity.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\FileSecurity\FileSecurity.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Internet\Internet.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Internet\Internet.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Internet\Internet.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\IPC\IPC.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\IPC\IPC.dll does not have a valid "Product name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\IPC\IPC.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Job\Job.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Job\Job.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Job\Job.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Mutex\Mutex.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Mutex\Mutex.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Mutex\Mutex.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\NetAdmin\NetAdmin.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\NetAdmin\NetAdmin.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\NetAdmin\NetAdmin.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\NetResource\NetResource.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\NetResource\NetResource.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\NetResource\NetResource.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\ODBC\ODBC.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\ODBC\ODBC.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\ODBC\ODBC.dll does not have a valid "Product Version" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\OLE\OLE.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\OLE\OLE.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\OLE\OLE.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\PerfLib\PerfLib.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\PerfLib\PerfLib.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\PerfLib\PerfLib.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Pipe\Pipe.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Pipe\Pipe.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Pipe\Pipe.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Process\Process.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Process\Process.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Process\Process.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Registry\Registry.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Registry\Registry.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Registry\Registry.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Semaphore\Semaphore.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Semaphore\Semaphore.dll does not have a valid "Product name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Semaphore\Semaphore.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Service\Service.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Service\Service.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Service\Service.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Shortcut\Shortcut.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Shortcut\Shortcut.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Shortcut\Shortcut.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Sound\Sound.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Sound\Sound.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Sound\Sound.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Win32.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Win32.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\Win32.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\WinError\WinError.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\WinError\WinError.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32\WinError\WinError.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32API\File\File.dll does not have a valid "Company name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32API\File\File.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32API\File\File.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32API\Net\Net.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32API\Net\Net.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32API\Net\Net.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32API\Registry\Registry.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32API\Registry\Registry.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\Win32API\Registry\Registry.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\XML\Parser\Expat\Expat.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\XML\Parser\Expat\Expat.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\XML\Parser\Expat\Expat.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\XML\Parser\Expat\libexpat.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\XML\Parser\Expat\libexpat.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSPerl\site\lib\auto\XML\Parser\Expat\libexpat.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\bin\perl58.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\bin\perl58.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\bin\perl58.dll does not have a valid "Product Version" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\B\B.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\B\B.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\B\B.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Compress\Zlib\Zlib.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Compress\Zlib\Zlib.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Compress\Zlib\Zlib.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Cwd\Cwd.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Cwd\Cwd.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Cwd\Cwd.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Data\Dumper\Dumper.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Data\Dumper\Dumper.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Data\Dumper\Dumper.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Digest\MD5\MD5.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Digest\MD5\MD5.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Digest\MD5\MD5.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\Byte\Byte.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\Byte\Byte.dll does not have a valid "Product name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\Byte\Byte.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\CN\CN.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\CN\CN.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\CN\CN.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\EBCDIC\EBCDIC.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\EBCDIC\EBCDIC.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\EBCDIC\EBCDIC.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\Encode.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\Encode.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\Encode.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\JP\JP.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\JP\JP.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\JP\JP.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\KR\KR.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\KR\KR.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\KR\KR.dll does not have a valid "Product Version" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\Symbol\Symbol.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\Symbol\Symbol.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\Symbol\Symbol.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\TW\TW.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\TW\TW.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\TW\TW.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\Unicode\Unicode.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\Unicode\Unicode.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Encode\Unicode\Unicode.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Fcntl\Fcntl.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Fcntl\Fcntl.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Fcntl\Fcntl.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\File\Glob\Glob.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\File\Glob\Glob.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\File\Glob\Glob.dll does not have a valid "Product Version" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Filter\Util\Call\Call.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Filter\Util\Call\Call.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Filter\Util\Call\Call.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\IO\IO.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\IO\IO.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\IO\IO.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto>List\Util\Util.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto>List\Util\Util.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto>List\Util\Util.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\MIME\Base64\Base64.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\MIME\Base64\Base64.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\MIME\Base64\Base64.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Params\Validate\Validate.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Params\Validate\Validate.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Params\Validate\Validate.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\PerIO\encoding\encoding.dll does not have a valid "Company name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\PerIO\encoding\encoding.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\PerIO\encoding\encoding.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\POSIX\POSIX.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\POSIX\POSIX.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\POSIX\POSIX.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\re\re.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\re\re.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\re\re.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Socket\Socket.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Socket\Socket.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Socket\Socket.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Storable\Storable.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Storable\Storable.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Storable\Storable.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Sys\Hostname\Hostname.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Sys\Hostname\Hostname.dll does not have a valid "Product name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Sys\Hostname\Hostname.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\threads\shared\shared.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\threads\shared\shared.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\threads\shared\shared.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\threads\threads.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\threads\threads.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\threads\threads.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Time\HiRes\HiRes.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Time\HiRes\HiRes.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Time\HiRes\HiRes.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32\Process\Process.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32\Process\Process.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32\Process\Process.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32\Registry\Registry.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32\Registry\Registry.dll does not have a valid "Product name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32\Registry\Registry.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32\Win32.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32\Win32.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32\Win32.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32\WinError\WinError.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32\WinError\WinError.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32\WinError\WinError.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32API\File\File.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32API\File\File.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32API\File\File.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32API\Net\Net.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32API\Net\Net.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32API\Net\Net.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32API\Registry\Registry.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32API\Registry\Registry.dll does not have a valid "Product name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\VRTSsfmh\lib\modules\auto\Win32API\Registry\Registry.dll does not have a valid "Product Version" property.

SFW HA

- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\lib\launcher.exe does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\lib\launcher.exe does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Manager\jre\lib\launcher.exe does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\libbind9.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\libbind9.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\libbind9.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\libdns.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\libdns.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\libdns.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\libey32.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\libey32.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\libey32.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\libisc.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\libisc.dll does not have a valid "Product name" property.

- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\libisc.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\libisccfg.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\libisccfg.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\libisccfg.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\liblwres.dll does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\liblwres.dll does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\liblwres.dll does not have a valid "Product Version" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\nsupdate.exe does not have a valid "Company name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\nsupdate.exe does not have a valid "Product name" property.
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\nsupdate.exe does not have a valid "Product Version" property.

Third-Party Executables without Custom Actions

Certification requires that for installer software, the intended behavior of each custom action must be documented. However, the third-party executables in the following do not comply with this requirement.

- MSVCR71DLL.msm
- MSVCR711DLL.msm
- ... \Pkgs\64\common\netfx.msi

Note: netfx.msi also creates msdia80.dll outside of the InstallDirectory Folder. It does not have an upgrade table.

- difxapp.msm (included with ... \Pkgs\64\w2k3\x64\vrtsvcs.msi)

Third-Party Packages with Internal Consistency Evaluator (ICE) Errors

Certification requires that installation packages not receive any errors from the Internal Consistency Evaluators (ICE). However, the following third-party installer package does not comply with this requirement.

- ...\\Pkgs\\64\\common\\netfx.msi

The following ICE errors were received during validation of the above.

- ICE69 ERROR Mismatched component reference. Entry
 'Microsoft_.NET_Framework_Configuration.3643236F_FC70_11D3_A536_0090278A1BB8' of the Shortcut table belongs to component
 'Setup_ENU_ENU____.3643236F_FC70_11D3_A536_0090278A1BB8'. However, the formatted string in column
 'Target' references file
 'FL_mscorcfg_msc_____.3643236F_FC70_11D3_A536_0090278A1BB8' which belongs to component
 'MSCORCFG_MSC_____.3643236F_FC70_11D3_A536_0090278A1BB8'. Components belong to different features
- ICE69 ERROR Mismatched component reference. Entry
 'Microsoft_.NET_Framework_Wizards.3643236F_FC70_11D3_A536_0090278A1BB8' of the Shortcut table belongs to component
 'Setup_ENU_ENU____.3643236F_FC70_11D3_A536_0090278A1BB8'. However, the formatted string in column
 'Target' references file
 'FL_mscorcfg_exe____X86.3643236F_FC70_11D3_A536_0090278A1BB8' which belongs to component
 'CONFIGWIZARDS_EXE____X86.3643236F_FC70_11D3_A536_0090278A1BB8'. Components belong to different features
- ICE99 ERROR The directory name: WindowsVolume is the same as one of the MSI Public Properties and can cause unforeseen side effects.

Third-Party Packages without Verify Package Identity Correctly Configured

Certification requires that installation packages must have Verify Package Identity correctly configured. However, the following third-party installer package does not have an upgrade table and does not comply with this requirement.

- ...\\Pkgs\\64\\common\\netfx.msi

Custom Tables and Custom Columns

Custom Tables

MsiDriverPackages

VCS uses Microsoft Driver Installation Frameworks (DiFxApp) to install VCS drivers. MsiDriverPackages is a custom table schema that is added when this DiFxApp Merge module is integrated with the msi.

- C:\\Users\\Administrator\\Desktop\\dvd1_sfwha-win64\\Pkgs\\64\\w2k3\\IA64\\vrtsvcs.msi
- C:\\Users\\Administrator\\Desktop\\dvd1_sfwha-win64\\Pkgs\\64\\w2k3\\x64\\vrtsvcs.msi

Note: All the MSI files contain the custom column **Assembly_**. This is a known InstallShield issue.

Custom Columns

Certification requires that for installer software, Custom columns must not be added to standard tables. However, the following third-party package does not comply with this requirement.

- ...\\Pkgs\\64\\common\\netfx.msi
Standard table name: Feature
Custom column name: LongDescription
AllowRunFromSource
InstallDirectory_
FeatureID

Uninstalling Using the Product Installer

In order to uninstall the software from remote computers, the local computer where you uninstall must have SFW or SFW HA installed on it.

The steps in the following procedure apply to a SFW uninstallation of the server and client components from a Windows 2003 system. The steps for uninstalling the client components and high availability server are similar. For SFW HA uninstallations, you must unconfigure the cluster before uninstalling.

To uninstall using the product installer

- 1 In the Windows Control Panel, select **Add or Remove Programs**.
- 2 Click **Veritas Storage Foundation 5.1 for Windows (Server Components)**.
- 3 Click **Remove**.
- 4 Click **Next**.
- 5 On the Client Components screen, uninstall client components in addition to the server components by selecting the check box. Click **Next**.
- 6 Select the systems that you want to uninstall from the Domain and Computer drop-down menus and click **Add**. Optionally, type the computer's name in the Computer field. Repeat to uninstall from other systems.
To remove a system from the **Selected computers for uninstall** list, click the system and click **Remove**.
- 7 Click **Next**.
- 8 On the Validation screen, the installer checks the prerequisites for the selected systems and displays the results. Review the information and click **Next**.
If a system fails validation, click the system in the systems list to display information about the failure. Address the problem and click **Validate Again** to repeat the validation process.
- 9 The Summary screen appears and displays the settings and systems selected for uninstallation. Click **Uninstall**.
- 10 The Uninstall Status screen displays status messages and the progress of the installation.
If an uninstallation fails, the status screen shows a failed uninstallation. Click **Next** to review the report, address the reason for failure, and retry this step on that computer.
- 11 When complete, review the summary and click **Next**.
- 12 Reboot the remote nodes. Note that you cannot reboot the local node now.
 - Click the check box next to the remote nodes that you want to reboot.

- Click **Reboot**.
 - When the nodes have finished rebooting successfully, the Reboot Status shows Online and the **Next** button is available. Click **Next**.
 - Once the remote nodes have rebooted, click **Next**.
- 13 On the Thank You screen, review the log file and click **Finish**.
- 14 Click **Yes** to reboot the local system.

Uninstalling from the Command Line

You can silently uninstall the SFW software from the command prompt using the `setup.exe` command.

At the end of this section, two command examples show how to uninstall the client components (“[Setup.exe example: Uninstalling the SFW client components](#)” on page 93) and server components (“[Setup.exe example: Uninstalling the SFW server components](#)” on page 93).

To start the uninstallation from the command prompt

- 1 Open a command window by clicking **Start > Run**.
- 2 Enter `cmd` in the Open field and click **OK**.
- 3 In the command window, navigate to the root directory of the product CD.
- 4 Use the following command syntax to silently uninstall SFW:

```
Setup.exe /s INSTALL_MODE=InstallMode SOLUTION=Solution  
[REBOOT=RebootMode] [NODE=SysA]
```

Information about the possible parameter values follows:

Parameter	Use
<code>/s</code>	Set for silent mode.
<code>INSTALL_MODE</code>	Set to indicate an install or uninstall. 1 = To install 5 = To uninstall The default setting is 1 to install. Set this parameter to 5 for uninstall. Example: INSTALL_MODE=5

SOLUTION

Set to the type of uninstallation.

1 = SFW Server

2 = SFW HA Server

3 = SFW Client

4 = SFW HA Client

5 = VCS Server (VCS Agent for NetApp SnapMirror installations)

6 = VCS Client (VCS Agent for NetApp SnapMirror installations)

The default setting is **1** for SFW Server.

Example: **SOLUTION=1**

Note: To uninstall the server and matching client components, run two `setup.exe /s` commands, one with the SOLUTION parameter set for the server component and the other set for the matching client component.

REBOOT

Setting for the automatic reboot of the system at the completion of the installation.

0 = No reboot

1 = Reboot

The default setting is **0** for no system reboot.

Example: **REBOOT=1**

NODE

Set the node name. Specify only one node at a time.

The local node is the default setting when the node is unspecified.

Example: **Node=SysA**

Note: Reboot the system at the end of uninstallation to ensure that the SFW drivers for the server component are installed correctly. You do not have to reboot after uninstalling the client.

Setup.exe example: Uninstalling the SFW client components

This sample command completely uninstalls the SFW server components, and tells the system to reboot at the end of the uninstallation.

```
Setup.exe /s INSTALL_MODE=5 SOLUTION=1 REBOOT=1
```

Setup.exe example: Uninstalling the SFW server components

This sample command completely uninstalls the SFW server components, and tells the system to reboot at the end of the uninstallation.

```
Setup.exe /s INSTALL_MODE=5 SOLUTION=1 REBOOT=1
```

Uninstall Notes

After the uninstallation of SFW and SFW HA, user data files and files related to the uninstallation process are left behind. Some of these files and directories need to be retained and others may be removed as indicated below.

SFW

After the uninstallation of SFW, delete the following files and directories.

- Delete the following directories and files:
 - %SystemDrive%\%InstallationDirectory%\Common Files\VERITAS
 - %SystemDrive%\msdia80.dll
 - %SystemDrive%\%InstallationDirectory%\Common Files\Veritas
 - %SystemDrive%\%InstallationDirectory%\Veritas
 - %SystemDrive%\Windows\System32\capicom.dll
 - %SystemDrive%\Windows\System32\vss.ico
 - %SystemDrive%\Windows\System32\LogFiles\symantec\vxio_ato.etl.001
 - %SystemDrive%\Windows\System32\LogFiles\symantec\Version
 - %SystemDrive%\Users\All Users\Veritas\VM\CleanupService.exe
 - %SystemDrive%\Users\All Users\Veritas\VM\cleanvxio.log
 - %SystemDrive%\Users\All Users\Veritas\VM\vxiocleanup.bat

SFW HA

In addition to the files and directories noted after the uninstallation of SFW, delete the following files and directories after the uninstallation of SFW HA.

- Delete the following directories and files:
 - %SystemDrive%\%InstallationDirectory%\Veritas
 - %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Management Console
 - %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Management Console\conf
 - %SystemDrive%\%InstallationDirectory%\Veritas\Cluster Management Console\conf\ManagementServer.conf
 - %SystemDrive%\%InstallationDirectory%\Veritas\cluster server
 - %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin
 - %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\OracleWizard.EXE
 - %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\OracleWizard_Lang_en.dll
 - %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\conf
 - %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\diag
 - %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\diag\CmdServer
 - %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\diag\had
 - %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\ldf
 - %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\ldf\CmdServer-log_A.ldf
 - %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\ldf\engine_A.ldf
 - %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\ldf\hashadow-err_A.ldf
 - %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\ldf\hashadow_A.ldf
 - %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\lock
 - %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\lock\hadargs
 - %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\lock\hadlock

- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\lock\.hadtrylock2
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\lock\.hashadow
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\lock\.hashadow1
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\log
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\log*
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\messages
- %SystemDrive%\%InstallationDirectory%\Veritas\comms
- %SystemDrive%\%InstallationDirectory%\Veritas\comms\gab
- %SystemDrive%\%InstallationDirectory%\Veritas\comms\gab\gabtab.txt
- %SystemDrive%\%InstallationDirectory%\Veritas\comms\llt
- %SystemDrive%\%InstallationDirectory%\Veritas\comms\llt\llthosts.txt
- %SystemDrive%\%InstallationDirectory%\Veritas\comms\llt\llttab.txt
- %SystemDrive%\%InstallationDirectory%\Veritas\Security
- %SystemDrive%\%InstallationDirectory%\Veritas\Security\Authentication
- %SystemDrive%\%InstallationDirectory%\Veritas\Security\Authentication\systemprofile
- %SystemDrive%\%InstallationDirectory%\Veritas\Security\Authentication\systemprofile\VRTSatlocal.conf
- %SystemDrive%\%InstallationDirectory%\Veritas\Security\Authentication\systemprofile\certstore
- %SystemDrive%\%InstallationDirectory%\Veritas\Security\Authentication\systemprofile\certstore\4b72dcd6.0
- %SystemDrive%\%InstallationDirectory%\Veritas\Security\Authentication\systemprofile\certstore\keystore
- %SystemDrive%\%InstallationDirectory%\Veritas\Security\Authentication\systemprofile\certstore\keystore\KeyStore.lock
- %SystemDrive%\%InstallationDirectory%\Veritas\Security\Authentication\systemprofile\certstore\keystore\PrivKeyFile.pem
- %SystemDrive%\%InstallationDirectory%\Veritas\Security\Authentication\systemprofile\certstore\keystore\PubKeyFile.pem

- %SystemDrive%\%InstallationDirectory%\Veritas\Security\Authentication\systemprofile\certstore\trusted
- %SystemDrive%\%InstallationDirectory%\Veritas\Security\Authentication\systemprofile\certstore\trusted\pluggins
- %SystemDrive%\%InstallationDirectory%\Veritas\Security\Authentication\systemprofile\certstore\trusted\pluggins\ldap
- %SystemDrive%\%InstallationDirectory%\Veritas\Security\Authentication\systemprofile\systruststore
- %SystemDrive%\%InstallationDirectory%\Veritas\Security\Authentication\systemprofile\systruststore\4b72dcd6.0
- %SystemDrive%\VxSS.cmd
- %SystemDrive%\VxSSOut.txt
- %SystemDrive%\Users\Administrator%\vxcsClusterPrefs
- %SystemDrive%\Users\Administrator%\vxcsrc
- %SystemDrive%\Users\Administrator%\SYMCLUST.Administrator.ser
- %SystemDrive%\Users\All Users\Veritas\VPI\Remove Installer.dll
- %SystemDrive%\%InstallationDirectory%\Veritas\VPI\Remove Installer.dll

Notes about Files

Files not Stored in Correct Location

The following files are not stored in the correct location:

- c:\msdia80.dll
- %SystemDrive%\Windows\SysWOW64\capicom.dll
- %SystemDrive%\Windows\SysWOW64\vss.ico
- %SystemDrive%\Windows\SysWOW64\vvrperf.dll
- %SystemDrive%\Windows\SysWOW64\Version
- %SystemDrive%\Windows\System32\capicom.dll
- %SystemDrive%\Windows\System32\vss.ico
- %SystemDrive%\Windows\System32\vvrperf.dll
- %SystemDrive%\Windows\System32\Version
- %SystemDrive%\Windows\Cluster\MSCSRvgResource.dll
- %SystemDrive%\Windows\System32\libgab.dll
- %SystemDrive%\Windows\System32\lltdb.dll
- %SystemDrive%\Windows\System32\DRVSTORE\gab_0631BCD1094954A94B92F811017D1BF31445430C\libgab.dll
- %SystemDrive%\Windows\System32\DRVSTORE\llt_D548073836BAD71D17E8966C162FBE157677654B\lltdb.dll
- %SystemDrive%\Windows\SysWOW64\MSVCP71.DLL
- %SystemDrive%\Windows\SysWOW64\MSVCR71.DLL
- c:\VxSS.cmd
- c:\VxSSOut.txt
- %SystemDrive%\Users\Administrator%\vxcClusterPrefs
- %SystemDrive%\Users\Administrator%\vxcsrc
- %SystemDrive%\Users\Administrator%\SYMCLUST.Administrator.ser

File not Stored in the System Directory

The following file is not stored in the System directory. This file is installed by the third-party software package netfx.msi.

- c:\msdia80.dll

Executables that Require Higher Execution Level

The following executables require a higher execution level (Administrator level authority).

On Windows Server 2008:

- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Shared\VPI\{F834E070-8D71-4c4b-B688-06964B88F3E8}\pkgs\64\common\LUSETUP.EXE
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Shared\VPI\{F834E070-8D71-4c4b-B688-06964B88F3E8}\{5.1.0.54}\Config Checker.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Shared\VPI\{F834E070-8D71-4c4b-B688-06964B88F3E8}\{5.1.0.54}\setup.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Shared\VPI\{F834E070-8D71-4c4b-B688-06964B88F3E8}\{5.1.0.54}\VPI.exe
- %SystemDrive%\%InstallationDirectory%\Symantec\LiveUpdate\AluSchedulerSvc.exe
- %SystemDrive%\%InstallationDirectory%\Symantec\LiveUpdate\LSETUP.EXE
- %SystemDrive%\%InstallationDirectory%\Symantec\LiveUpdate\LUCheck.exe
- %SystemDrive%\%InstallationDirectory%\Symantec\LiveUpdate\LuComServer_3_2.EXE
- %SystemDrive%\%InstallationDirectory%\Symantec\LiveUpdate\LuConfig.EXE
- %SystemDrive%\%InstallationDirectory%\Symantec\LiveUpdate\NotifyHA.exe
- %SystemDrive%\%InstallationDirectory%\Symantec\LiveUpdate\SymantecRootInstaller.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\VxPBX\bin\vxpbxcfg.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\AppWizard.EXE
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\ExchWizard.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\Exch2007Wizard.exe

- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\FSWizard.EXE
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\IIS60Wizard.EXE
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\MSVMWizard.EXE
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\OracleWizard.EXE
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\PSWizard.EXE
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\SQLWizard.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\ExchSetup\Setup.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\Exch2007Setup\Exch2007Setup.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\VCW\VCW.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\cluster server\bin\EVWizard.exe
- %SystemDrive%\%InstallationDirectory%\Veritas\winsolutions\bin\CEngineD river.exe

Third-Party Executables that Require Higher Execution Level

The following executables from a third-party source require a higher execution level (Administrator level authority).

On Windows Server 2008:

- %SystemDrive%\%InstallationDirectory%\Veritas\Veritas Shared\VPI\{F834E070-8D71-4c4b-B688-06964B88F3E8}\pkgs\64\common\NetFx2OSP1_x64.exe

Custom Actions

This section provides information about the custom actions that are required for:

- Veritas Storage Foundation™ 5.1 (SFW)
- Veritas Storage Foundation™ HA 5.1 (SFW HA).

The custom actions are categorized as follows:

- [“vrtsvcs.msi”](#)
- [“vrtsvcs.msi”](#)
- [“vrtsvcssql.msi”](#)
- [“vrtsvcsoracle.msi”](#)
- [“vrtsvcsntap.msi”](#)
- [“vrtsvcsexch.msi”](#)
- [“vrtsvcsexch.msi”](#)
- [“vrtsvcsev.msi”](#)
- [“vrtsvrgagent.msi”](#)
- [“vrtisperl.msi”](#)
- [“vrtisperl.msi”](#)
- [“vrtsvcstc.msi”](#)
- [“vrtsvcsmm.msi”](#)
- [“vrtsvcsm.msi”](#)
- [“vrtsvcssrdf.msi”](#)
- [“vrtsvcsst.msi”](#)
- [“SFW_CCF_Client.msi”](#)
- [“SFW_CCF_Server.msi”](#)
- [“vrtsvcscscm.msi”](#)
- [“vrtsvcssim.msi”](#)
- [“Veritas Cluster Management Console \(Single Cluster Mode\).msi”](#)
- [“Common Custom Actions introduced by InstallShield”](#)
- [“vrtsobc33.msi”](#)
- [“vrtsobc.msi”](#)

- “vrtsob.msi”
- “vrtsobgui.msi”
- “vrtsccg.msi”
- “vrtsaa.msi”
- “Symantec Private Branch Exchange.msi”
- “Symantec Private Branch Exchange.msi”
- “vrtswb.msi”
- “vrtsjre.msi”
- “vm.msi”
- “vm.msi”
- “vm.msi”
- “vm.msi”
- “vxmpio.msi”
- “vxmpio.msi”
- “vxmpio.msi”
- “vxmpio.msi”
- “Veritas Authentication Service.msi”
- “Veritas Authentication Service.msi”
- “Veritas Authentication Service Client.msi”
- “Veritas Authentication Service Client.msi”
- “Veritas Authentication Service Client.msi”
- “Netfx.msi”

vrtsvcs.msi

MSI located at ...\\Pkgs\\64\\w2k3\\IA64\\vrtsvcs.msi

VCIM_Percent

This custom action occurs during install/uninstall tasks and indicates the progress of the task.

It uses a function from the standard dll stored in the binary table of msi.

CheckServerCore

This custom action occurs during installation. It calls an install script function 'IsOSServerCore' which returns the value of property VCS_SERVERCORE.

DeleteBMCMAP

This custom action occurs during uninstallation. It calls an install script function 'DeleteBMCMAP' which deletes INSTALLDIR\\messages\\en\\HAD.bmcmap file.

DeleteDynamicDirs

This occurs during uninstallation. It calls an install script function 'DeleteDynamicDirs' which deletes the following directories:

- INSTALLDIR\\cluster server\\conf\\config
- INSTALLDIR\\cluster server\\conf\\ldf
- INSTALLDIR\\cluster server\\conf\\lock
- INSTALLDIR\\cluster server\\conf\\log
- INSTALLDIR\\cluster server

DeleteDynamicRegistry

This custom action occurs during uninstallation. It calls an install script function 'DeleteDynamicRegistry' which deletes the following registry keys:

- HKLM\\SOFTWARE\\VERITAS\\VCS\\BundledAgents
- HKLM\\SOFTWARE\\VERITAS\\VCS\\Base
- HKLM\\SOFTWARE\\VERITAS\\VCS\\Config
- HKLM\\SOFTWARE\\VERITAS\\VCS\\VCS

DeleteShortcuts

This custom action occurs during uninstallation. It calls an install script function 'DeleteShortcuts' which deletes the following start menu shortcuts:

- FOLDER_PROGRAMS\Veritas Cluster Server\SQL Server 2000 Enterprise Agents\Agent Installation Manager
- FOLDER_PROGRAMS\Veritas Cluster Server\SQL Server 2000 Enterprise Agents\Configuration Wizard
- FOLDER_PROGRAMS\Veritas Cluster Server\SQL Server 2000 Enterprise Agents\Installation and Configuration Guide
- FOLDER_PROGRAMS\Veritas Cluster Server\SQL Server 2000 Enterprise Agents\Release Notes
- FOLDER_PROGRAMS\Veritas Cluster Server\SQL Server 2000 Enterprise Agents

DeleteVCSKey

This custom action occurs during uninstallation. It calls a standard executable 'reg.exe' from SystemFolder to delete the registry key 'HKLM\SOFTWARE\VERITAS\VCS'.

This function is called only for Windows Server 2003 systems.

GetCmdLineParams

This custom action occurs during uninstallation. It calls an install script function 'GetCmdLineParam' which sets the property VCS_REPAIR to 1 if REPAIR=ALL is passed to the MSI.

RearrangeProperties

This custom action occurs during installation. It calls an install script function 'ChangeProperty' which swaps the values of properties if certain conditions are met.

RegisterBMC

This custom action occurs during installation.

It calls install script function "createBMCMAP" which runs command "bmcmap.exe -create en HAD".

SetTypesFilePath

This custom action occurs during installation\uninstallation.

It modifies property TYPESFILEPATH by prepending INSTALLDIR to it.

VCIM_BeginningInstall

This custom action occurs during installation.

It uses a function from a standard dll stored in the binary table.

The function logs 'Beginning of install'.

VCIM_BeginningUninstall

This custom action occurs during uninstallation.

It uses a function from a standard dll stored in the binary table.

The function logs 'Beginning of uninstall'.

VCIM_CheckingForServerCore

This custom action occurs during installation.

It uses a function from a standard dll stored in the binary table.

The function checks whether the Operating System is Windows Server 2008 Server Core or not.

If yes then it sets the property VCS_SERVERCORE' to 1.

VCIM_CleanupPrevInstallation

This custom action occurs during installation.

It uses a function from a standard dll stored in the binary table.

The function deletes the following shortcuts:

- FOLDER_PROGRAMS\VERITAS Cluster Server\SQL Server 2000 Enterprise Agents
- FOLDER_PROGRAMS\Veritas Cluster Server\Volume Replicator agent configuration wizard
- FOLDER_PROGRAMS\Veritas Cluster Server

VCIM_CreateACLs

This custom action occurs during installation.

It uses a function from a standard dll stored in the binary table.

The function sets Access control list for the following folder:

- VCS_HOME(value specified in %VCS_HOME% environment var), Administrator has full access and everyone else has Read/Execute access.
- VCS_HOME\conf, Administrator has full access and everyone else has no privilege.

- VCS_ROOT (value specified in %VCS_ROOT% environment var), Administrator has full access and everyone else has Read/Execute access.
- VCS_ROOT\Web Server, Administrator has full access and everyone else has Read/Execute access.

VCIM_DeleteDynamicVcsFiles

This custom action occurs during uninstallation.

It uses a function from a standard dll stored in the binary table.

This function deletes the following directory:

- VCS_ROOT\cluster server, (value specified in %VCS_ROOT% environment var)
- VCS_ROOT\comms
- VCS_ROOT\lft
- VCS_ROOT\gab

VCIM_InstallSuccessful

This custom action occurs during installation.

It logs that installation was successful.

It uses a standard dll stored in the binary table.

VCIM_JustAfterInstallFinalize

This custom action occurs during installation/uninstallation both.

It logs that InstallFinalize MSI action has just been called.

It uses a standard dll stored in the binary table.

VCIM_JustBeforeInstallFinalize

This custom action occurs during installation/uninstallation both.

It logs that InstallFinalize MSI action is about to be called.

It uses a standard dll stored in the binary table.

VCIM_SetVCSInstallationDirectory

This custom action occurs during uninstallation.

It uses a function of a standard dll stored in the binary table.

The dll function reads registry key

HKLM\software\veritas\vcs\Base\RootDirectory and sets INSTALLDIR property to this value.

VCIM_UninstallSuccessful

This custom action occurs during uninstallation.
It uses a function of a standard dll stored in the binary table.
It logs that installation was successful.

DeleteEAKey

This custom action occurs during installation.
It calls a standard exe 'reg.exe' from System64Folder to delete the registry key 'HKLM\SOFTWARE\VERITAS\VCS\EnterpriseAgents'.

VCIM_DeleteEventLog

This custom action occurs during uninstallation.
It uses a function of a standard dll stored in the binary table.
The function deletes the following event log entries from the registry:

- HKLM\SYSTEM\CurrentControlSet\Services\EventLog\Application\Had
- HKLM\SYSTEM\CurrentControlSet\Services\EventLog\Application\VCSComm
- HKLM\SYSTEM\CurrentControlSet\Services\EventLog\System\gab
- HKLM\SYSTEM\CurrentControlSet\Services\EventLog\System\llt

VCIM_DeleteVcsServices

This custom action occurs during uninstallation.
It uses a function of a standard dll stored in the binary table.
The function deletes the following services:

- Had
- VCSComm
- CmdServer
- Gab
- llt

VCIM_AddSFWtypeCF

This custom action occurs during installation.
It uses a function from a standard dll stored in the binary table.
The function appends the content of
%VCS_HOME%\conf\Sample_VM\SFWTypes.cf to
%VCS_HOME%\conf\config\types.cf.

SxsInstallCA

Provided as part of VC++ 2005 runtime redistributable merge module inclusion. This redistributable is provided by Microsoft.

SxsUninstallCA

Provided as part of VC++ 2005 runtime redistributable merge module inclusion. This redistributable is provided by Microsoft.

CreateVersionReg

This custom action occurs during installation.

It calls a standard executable 'reg.exe' from SystemFolder to create the registry key "HKLM\Software\Wow6432Node\VERITAS\VCS\Base" and adds reg key "version" with value 5.1.0000.

DeleteVersionReg

This custom action occurs during uninstallation.

It calls a standard executable 'reg.exe' from SystemFolder to delete the registry key "HKLM\Software\Wow6432Node\Veritas\VCS".

VCIM_DeleteHacliFile

This custom action occurs during installation.

It uses a function from a standard dll stored in the binary table. The function deletes the file %vcs_home%\bin\hacli_r.exe (if it exists).

MsiProcessDrivers

This is a DifxApp custom action.

It is an immediate execution custom action that controls the overall install and uninstall of driver packages.

MsiInstallDrivers

This is a DifxApp custom action.

It is a deferred execution custom action that installs a driver package. This action pre-installs the driver package files in the driver store. (The driver store is a repository for driver packages that is located on the system disk and is internally managed by DifxApp, DPInst, and other Difx tools).

VCIM_AddLDMtypeCF

This custom action occurs during installation.

It uses a function from a standard dll stored in the binary table. The function appends the content of %VCS_HOME%\conf\Sample_VM\LDMTypes.cf to %VCS_HOME%\conf\config\types.cf.

MsiCleanupOnSuccess

This is a DifxApp custom action.

It is an immediate execution custom action that cleans up the registry after the packages are successfully installed or uninstalled.

MsiUninstallDrivers

This is a DifxApp custom action.

It is a deferred execution custom action that uninstalls a driver package. This action executes during the uninstall sequence.

MsiRollbackInstall

This is a DifxApp custom action.

It is a deferred execution custom action that reverses the installation related changes made to a system. This action executes during a rollback sequence.

VCIM_DeleteVcsRegistry

It removes VCS registry information from HKLM\SOFTWARE\VERITAS\VCS. The HKLM\SOFTWARE\VERITAS registry entry is deleted if no other VERITAS products remain. This action executes during uninstallation.

DeleteMMCFiles

This custom action executes only in the case of a minor upgrade.

It calls the install script function DeleteMMCFiles to clean up unrequired files during minor upgrades.

BackupFiles

This custom action executes only in case of a minor upgrade.

It calls the install script function BackupFiles to backup all the binaries that the current msi is going to replace with a newer version. This is done in order to regain the previous state of the product when the latest msi is uninstalled.

RestoreFiles

This custom action executes only in the case of an uninstall.

It calls the install script function RestoreFiles to restore all the binaries that were backed up during installation. This is done in order to regain the previous state of the product when the latest msi is uninstalled.

DeleteBackupDirs

This custom action executes only in case of an uninstall.

It calls the install script function DeleteBackupDirs to delete all the backup directories created during the installation.

vrtsvcs.msi

MSI located at ...\\Pkgs\\64\\w2k3\\x64\\vrtsvcs.msi

VCIM_Percent

This custom action occurs during install/uninstall tasks and indicates the progress of the task.

It uses a function from the standard dll stored in the binary table of msi.

CheckServerCore

This custom action occurs during installation. It calls an install script function 'IsOSServerCore' which returns the value of property VCS_SERVERCORE.

DeleteBMCMAP

This custom action occurs during uninstallation. It calls an install script function 'DeleteBMCMAP' which deletes INSTALLDIR\\messages\\en\\HAD.bmcmap file.

DeleteDynamicDirs

This occurs during uninstallation. It calls an install script function 'DeleteDynamicDirs' which deletes the following directories:

- INSTALLDIR\\cluster server\\conf\\config
- INSTALLDIR\\cluster server\\conf\\ldf
- INSTALLDIR\\cluster server\\conf\\lock
- INSTALLDIR\\cluster server\\conf\\log
- INSTALLDIR\\cluster server

DeleteDynamicRegistry

This custom action occurs during uninstallation. It calls an install script function 'DeleteDynamicRegistry' which deletes the following registry keys:

- HKLM\SOFTWARE\VERITAS\VCS\BundledAgents
- HKLM\SOFTWARE\VERITAS\VCS\Base
- HKLM\SOFTWARE\VERITAS\VCS\Config
- HKLM\SOFTWARE\VERITAS\VCS\VCS

DeleteShortcuts

This custom action occurs during uninstallation. It calls an install script function 'DeleteShortcuts' which deletes the following start menu shortcuts:

- FOLDER_PROGRAMS\Veritas Cluster Server\SQL Server 2000 Enterprise Agents\Agent Installation Manager
- FOLDER_PROGRAMS\Veritas Cluster Server\SQL Server 2000 Enterprise Agents\Configuration Wizard
- FOLDER_PROGRAMS\Veritas Cluster Server\SQL Server 2000 Enterprise Agents\Installation and Configuration Guide
- FOLDER_PROGRAMS\Veritas Cluster Server\SQL Server 2000 Enterprise Agents\Release Notes
- FOLDER_PROGRAMS\Veritas Cluster Server\SQL Server 2000 Enterprise Agents

DeleteVCSKey

This custom action occurs during uninstallation. It calls a standard executable 'reg.exe' from SystemFolder to delete the registry key 'HKLM\SOFTWARE\VERITAS\VCS'.

This function is called only for Windows Server 2003 systems.

GetCmdLineParams

This custom action occurs during uninstallation. It calls an install script function 'GetCmdLineParam' which sets the property VCS_REPAIR to 1 if REPAIR=ALL is passed to the MSI.

RearrangeProperties

This custom action occurs during installation. It calls an install script function 'ChangeProperty' which swaps the values of properties if certain conditions are met.

RegisterBMC

This custom action occurs during installation.

It calls install script function "createBMCMAP" which runs command "bmcmap.exe -create en HAD".

SetTypesFilePath

This custom action occurs during installation\uninstallation.

It modifies property TYPESFILEPATH by prepending INSTALLDIR to it.

VCIM_BeginningInstall

This custom action occurs during installation.

It uses a function from a standard dll stored in the binary table.

The function logs 'Beginning of install'.

VCIM_BeginningUninstall

This custom action occurs during uninstallation.

It uses a function from a standard dll stored in the binary table.

The function logs 'Beginning of uninstall'.

VCIM_CheckingForServerCore

This custom action occurs during installation.

It uses a function from a standard dll stored in the binary table.

The function checks whether the Operating System is Windows Server 2008 Server Core or not.

If yes then it sets the property VCS_SERVERCORE' to 1.

VCIM_CleanupPrevInstallation

This custom action occurs during installation.

It uses a function from a standard dll stored in the binary table.

The function deletes the following shortcuts:

- FOLDER_PROGRAMS\VERITAS Cluster Server\SQL Server 2000 Enterprise Agents
- FOLDER_PROGRAMS\Veritas Cluster Server\Volume Replicator agent configuration wizard
- FOLDER_PROGRAMS\Veritas Cluster Server

VCIM_CreateACLs

This custom action occurs during installation.

It uses a function from a standard dll stored in the binary table.

The function sets Access control list for the following folder:

- VCS_HOME(value specified in %VCS_HOME% environment var), Administrator has full access and everyone else has Read/Execute access.
- VCS_HOME\conf, Administrator has full access and everyone else has no privilege.
- VCS_ROOT (value specified in %VCS_ROOT% environment var), Administrator has full access and everyone else has Read/Execute access.
- VCS_ROOT\Web Server, Administrator has full access and everyone else has Read/Execute access.

VCIM_DeleteDynamicVcsFiles

This custom action occurs during uninstallation.

It uses a function from a standard dll stored in the binary table.

This function deletes the following directory:

- VCS_ROOT\cluster server, (value specified in %VCS_ROOT% environment var)
- VCS_ROOT\comms
- VCS_ROOT\lft
- VCS_ROOT\gab

VCIM_InstallSuccessful

This custom action occurs during installation.

It logs that installation was successful.

It uses a standard dll stored in the binary table.

VCIM_JustAfterInstallFinalize

This custom action occurs during installation/uninstallation both.

It logs that InstallFinalize MSI action has just been called.

It uses a standard dll stored in the binary table.

VCIM_JustBeforeInstallFinalize

This custom action occurs during installation/uninstallation both.

It logs that InstallFinalize MSI action is about to be called.

It uses a standard dll stored in the binary table.

VCIM_SetVCSInstallationDirectory

This custom action occurs during uninstallation.

It uses a function of a standard dll stored in the binary table.

The dll function reads registry key

HKLM\software\veritas\vcs\Base\RootDirectory and sets INSTALLDIR property to this value.

VCIM_UninstallSuccessful

This custom action occurs during uninstallation.

It uses a function of a standard dll stored in the binary table.

It logs that installation was successful.

DeleteEAKey

This custom action occurs during installation.

It calls a standard exe 'reg.exe' from System64Folder to delete the registry key 'HKLM\SOFTWARE\VERITAS\VCS\EnterpriseAgents'.

VCIM_DeleteEventLog

This custom action occurs during uninstallation.

It uses a function of a standard dll stored in the binary table.

The function deletes the following event log entries from the registry:

- HKLM\SYSTEM\CurrentControlSet\Services\EventLog\Application\Had

-

HKLM\SYSTEM\CurrentControlSet\Services\EventLog\Application\VCSComm

- HKLM\SYSTEM\CurrentControlSet\Services\EventLog\System\gab

- HKLM\SYSTEM\CurrentControlSet\Services\EventLog\System\llt

VCIM_DeleteVcsServices

This custom action occurs during uninstallation.

It uses a function of a standard dll stored in the binary table.

The function deletes the following services:

- Had

- VCSComm

- CmdServer

- Gab

- llt

VCIM_AddSFWtypeCF

This custom action occurs during installation.

It uses a function from a standard dll stored in the binary table.

The function appends the content of

%VCS_HOME%\conf\Sample_VM\SFWTypes.cf to
%VCS_HOME%\conf\config\types.cf.

SxsInstallICA

Provided as part of VC++ 2005 runtime redistributable merge module inclusion. This redistributable is provided by Microsoft.

SxsUninstallICA

Provided as part of VC++ 2005 runtime redistributable merge module inclusion. This redistributable is provided by Microsoft.

CreateVersionReg

This custom action occurs during installation.

It calls a standard executable 'reg.exe' from SystemFolder to create the registry key "HKLM\Software\Wow6432Node\VERITAS\VCS\Base" and adds reg key "version" with value 5.1.0000.

DeleteVersionReg

This custom action occurs during uninstallation.

It calls a standard executable 'reg.exe' from SystemFolder to delete the registry key "HKLM\Software\Wow6432Node\Veritas\VCS".

VCIM_DeleteHacliFile

This custom action occurs during installation.

It uses a function from a standard dll stored in the binary table. The function deletes the file %vcs_home%\bin\hacli_r.exe (if it exists).

MsiProcessDrivers

This is a DifxApp custom action.

It is an immediate execution custom action that controls the overall install and uninstall of driver packages.

MsiInstallDrivers

This is a DifxApp custom action.

It is a deferred execution custom action that installs a driver package. This action pre-installs the driver package files in the driver store. (The driver store is a repository for driver packages that is located on the system disk and is internally managed by DifxApp, DPInst, and other Difx tools).

VCIM_AddLDMtypeCF

This custom action occurs during installation.

It uses a function from a standard dll stored in the binary table. The function appends the content of %VCS_HOME%\conf\Sample_VM\LDMTTypes.cf to %VCS_HOME%\conf\config\types.cf.

MsiCleanupOnSuccess

This is a DifxApp custom action.

It is an immediate execution custom action that cleans up the registry after the packages are successfully installed or uninstalled.

MsiUninstallDrivers

This is a DifxApp custom action.

It is a deferred execution custom action that uninstalls a driver package. This action executes during the uninstall sequence.

MsiRollbackInstall

This is a DifxApp custom action.

It is a deferred execution custom action that reverses the installation related changes made to a system. This action executes during a rollback sequence.

DeleteMMCFiles

This custom action executes only in the case of a minor upgrade.

It calls the install script function DeleteMMCFiles to clean up unrequired files during minor upgrades.

BackupFiles

This custom action executes only in case of a minor upgrade.

It calls the install script function BackupFiles to backup all the binaries that the current msi is going to replace with a newer version. This is done in order to regain the previous state of the product when the latest msi is uninstalled.

RestoreFiles

This custom action executes only in the case of an uninstall.

It calls the install script function RestoreFiles to restore all the binaries that were backed up during installation. This is done in order to regain the previous state of the product when the latest msi is uninstalled.

DeleteBackupDirs

This custom action executes only in case of an uninstall.

It calls the install script function DeleteBackupDirs to delete all the backup directories created during the installation.

vrtsvcssql.msi

SetTypesFilePath

This custom action occurs during installation\uninstallation.

It modifies property TYPESFILEPATH by prepending INSTALLDIR to it.

RegisterBMC

This custom action occurs during installation.

It calls install script function "createBMCMAP" which runs command "bmcmmap.exe -create en HAD".

UnregisterBMC

This custom action occurs during uninstallation.

It calls install script function "createBMCMAP" which runs command "bmcmmap.exe -create en HAD".

GetCmdLineParam

This custom action occurs during uninstallation.

It calls install script function 'GetCmdLineParam' which sets property VCS_REPAIR to 1 if REPAIR=ALL is passed to MSI.

SetMessagesPath

This custom action occurs during installation. It sets value of the VCS_ROOT Directory to the value specified in VCS_ROOT environment variable.

InstallMSDTC

This custom action occurs during installation.

It uses a standard dll stored in binary table and passes MSDTCTYPESFILEPATH property as an argument.

The dll function appends the data of file whose path is specified in MSDTCTYPESFILEPATH to %VCS_HOME%\conf\config\types.cf.

InstallMSSearch

This custom action occurs during installation.

It uses a standard dll stored in binary table and passes MSSEARCHTYPESFILEPATH property as an argument.

The dll function appends the data of file whose path is specified in MSSEARCHTYPESFILEPATH to %VCS_HOME%\conf\config\types.cf.

InstallSQLAgService2005

This custom action occurs during installation.

It uses a standard dll stored in binary table and passes SQLAGSERVICETYPESFILEPATH property as an argument.

The dll function appends the data of file whose path is specified in SQLAGSERVICETYPESFILEPATH to %VCS_HOME%\conf\config\types.cf.

InstallSQLOlapService2005

This custom action occurs during installation.

It uses a standard dll stored in binary table and passes SQLOLAPSERVICETYPESFILEPATH property as an argument.

The dll function appends the data of file whose path is specified in SQLOLAPSERVICETYPESFILEPATH to %VCS_HOME%\conf\config\types.cf.

InstallSQLServer2000

This custom action occurs during installation.

It uses a standard dll stored in binary table and passes SQLSERVER2000TYPESFILEPATH property as an argument.

The dll function appends the data of file whose path is specified in SQLSERVER2000TYPESFILEPATH to %VCS_HOME%\conf\config\types.cf.

InstallSQLServer2005

This custom action occurs during installation.

It uses a standard dll stored in binary table and passes SQLSERVER2005TYPESFILEPATH property as an argument.

The dll function appends the data of file whose path is specified in SQLSERVER2005TYPESFILEPATH to %VCS_HOME%\conf\config\types.cf.

RunSetupOnUninstall

This custom action is not being called.

UnInstallMSDTC

This custom action occurs during uninstallation.

It uses a standard dll stored in binary table and passes MSDTCTYPESFILEPATH property as an argument.

The dll function removes the data of file whose path is specified in MSDTCTYPESFILEPATH from %VCS_HOME%\conf\config\types.cf.

UnInstallMSSearch

This custom action occurs during uninstallation.

It uses a standard dll stored in a binary table and passes MSSEARCHTYPESFILEPATH property as an argument.

The dll function removes the data of file whose path is specified in MSSEARCHTYPESFILEPATH from %VCS_HOME%\conf\config\types.cf.

UnInstallSQLAgService2005

This custom action occurs during uninstallation.

It uses a standard dll stored in a binary table and passes SQLAGSERVICETYPESFILEPATH property as an argument.

The dll function removes the data of file whose path is specified in SQLAGSERVICETYPESFILEPATH from %VCS_HOME%\conf\config\types.cf.

UnInstallSQLOlapService2005

This custom action occurs during uninstallation.

It uses a standard dll stored in a binary table and passes `SQLOLAPSERVICETYPESFILEPATH` property as an argument.

The dll function removes the data of file whose path is specified in `SQLOLAPSERVICETYPESFILEPATH` from `%VCS_HOME%\conf\config\types.cf`.

UnInstallSQLServer2000

This custom action occurs during uninstallation.

It uses a standard dll stored in binary table and passes `SQLSERVER2000TYPESFILEPATH` property as an argument.

The dll function removes the data of file whose path is specified in `SQLSERVER2000TYPESFILEPATH` from `%VCS_HOME%\conf\config\types.cf`.

UnInstallSQLServer2005

This custom action occurs during uninstallation.

It uses a standard dll stored in a binary table and passes `SQLSERVER2005TYPESFILEPATH` property as an argument.

The dll function removes the data of file whose path is specified in `SQLSERVER2005TYPESFILEPATH` from `%VCS_HOME%\conf\config\types.cf`.

SetMessagesFolder

This custom action occurs during installation. It sets the value of the `VCS_ROOT` Directory to the value specified in `VCS_ROOT` environment variable.

RearrangeProperties

This custom action occurs during installation. It calls an install script function 'ChangeProperty' which swaps the values of properties if certain conditions are met.

BackupFiles

This custom action executes only in the case of a minor upgrade.

It calls the install script function `BackupFiles` to backup all the binaries that the current msi is going to replace with a newer version. This is done in order to regain the previous state of the product when the latest msi is uninstalled.

RestoreFiles

This custom action executes only in the case of an uninstall.

It calls the install script function `RestoreFiles` to restore all the binaries that were backed up during installation. This is done in order to regain the previous state of the product when the latest msi is uninstalled.

DeleteBackupDirs

This custom action executes only in the case of an uninstall.

It calls the install script function `DeleteBackupDirs` to delete all the backup directories created during the installation.

vrtsvcsoracle.msi

GetCmdLineParams

This custom action occurs during uninstallation. It calls an install script function `'GetCmdLineParam'` which sets the property `VCS_REPAIR` to 1 if `REPAIR=ALL` is passed to the MSI.

InstallAgent

This custom action occurs during installation.

It uses a standard dll stored in binary table and passes `TYPESFILEPATH` property as an argument.

The dll function appends the data of file whose path is specified in `TYPESFILEPATH` to `%VCS_HOME%\conf\config\types.cf`.

RearrangeProperties

This custom action occurs during installation. It calls an install script function `'ChangeProperty'` which swaps the values of properties if certain conditions are met.

RegisterBMC

This custom action occurs during installation.

It calls install script function `"createBMCMAP"` which runs command `"bmcmap.exe -create en HAD"`.

SetMessagesPath

This custom action occurs during installation. It sets the value of the `VCS_ROOT` Directory to the value specified in `VCS_ROOT` environment variable.

SetTypesFilePath

This custom action occurs during installation\uninstallation.

It modifies the property TYPESFILEPATH by prepending INSTALLDIR to it.

UnInstallAgent

This custom action occurs during uninstallation.

It uses a standard dll stored in a binary table and passes the TYPESFILEPATH property as an argument.

The dll function removes the data of file whose path is specified in TYPESFILEPATH from %VCS_HOME%\conf\config\types.cf.

UnregisterBMC

This custom action occurs during uninstallation.

It calls install script function "createBMCMAP" which runs command "bmcmap.exe -create en HAD".

BackupFiles

This custom action executes only in the case of a minor upgrade.

It calls the install script function BackupFiles to backup all the binaries that the current msi is going to replace with a newer version. This is done in order to regain the previous state of the product when the latest msi is uninstalled.

RestoreFiles

This custom action executes only in the case of an uninstal.

It calls the install script function RestoreFiles to restore all the binaries that were backed up during installation. This is done in order to regain the previous state of the product when the latest msi is uninstalled.

DeleteBackupDirs

This custom action executes only in the case of an uninstal.

It calls the install script function DeleteBackupDirs to delete all the backup directories created during the installation.

vrtsvcstap.msi

DeleteBMCMAP

This custom action occurs during uninstallation. It calls an install script function 'DeleteBMCMAP' which deletes INSTALLDIR\messages\en\HAD.bmcmap file.

GetCmdLineParams

This custom action occurs during uninstallation. It calls an install script function 'GetCmdLineParam' which sets the property VCS_REPAIR to 1 if REPAIR=ALL is passed to the MSI.

InstallAgent

This custom action occurs during installation.

It uses a standard dll stored in a binary table and passes the TYPESFILEPATH property as an argument.

The dll function appends the data of file whose path is specified in TYPESFILEPATH to %VCS_HOME%\conf\config\types.cf.

RearrangeProperties

This custom action occurs during installation. It calls an install script function 'ChangeProperty' which swaps the values of properties if certain conditions are met.

RegisterBMC

This custom action occurs during installation.

It calls install script function "createBMCMAP" which runs command "bmcmap.exe -create en HAD".

SetTypesFilePath

This custom action occurs during installation/uninstallation.

It modifies the property TYPESFILEPATH by prepending INSTALLDIR to it.

UnInstallAgent

This custom action occurs during uninstallation.

It uses a standard dll stored in a binary table and passes the TYPESFILEPATH property as an argument.

The dll function removes the data of file whose path is specified in TYPESFILEPATH from %VCS_HOME%\conf\config\types.cf.

BackupFiles

This Custom Action Executes only in the case of a minor upgrade.

It calls the install script function BackupFiles to backup all the binaries that the current msi is going to replace with a newer version. This is done in order to regain the previous state of the product when the latest msi is uninstalled.

RestoreFiles

This custom action executes only in the case of an uninstall.

It calls the install script function RestoreFiles to restore all the binaries that were backed up during installation. This is done in order to regain the previous state of the product when the latest msi is uninstalled.

DeleteBackupDirs

This custom action executes only in the case of an uninstall.

It calls an install script function DeleteBackupDirs to delete all the backup directories created during the installation.

vrtsvcsexch.msi

DeleteOldExchangeShortcuts

This custom action occurs during installation.

It calls a installScript function 'DeleteOldExchangeShortcuts' which deletes the shortcut (if it exists): FOLDER_PROGRAMS\VERITAS\Veritas Cluster Server\Application Agent for Exchange.

GetCmdLineParams

This custom action occurs during uninstallation. It calls an install script function 'GetCmdLineParam' which sets the property VCS_REPAIR to 1 if REPAIR=ALL is passed to the MSI.

InstallAgent

This custom action occurs during installation.

It uses a standard dll stored in a binary table and passes the TYPESFILEPATH property as an argument.

The dll function appends the data of file whose path is specified in TYPESFILEPATH to %VCS_HOME%\conf\config\types.cf.

RearrangeProperties

This custom action occurs during installation. It calls an install script function 'ChangeProperty' which swaps the values of properties if certain conditions are met.

RegisterBMC

This custom action occurs during installation.

It calls install script function "createBMCMAP" which runs command "bmcmap.exe -create en HAD".

RunSetupOnUninstall

This custom action is not being called.

SetMessagesPath

This custom action occurs during installation. It sets value of the VCS_ROOT Directory to the value specified in VCS_ROOT environment variable.

SetTypesFilePath

This custom action occurs during installation/uninstallation.

It modifies the property TYPESFILEPATH by prepending INSTALLDIR to it.

UninstallAgent

This custom action occurs during uninstallation.

It uses a standard dll stored in binary table and passes TYPESFILEPATH property as an argument.

The dll function removes the data of file whose path is specified in TYPESFILEPATH from %VCS_HOME%\conf\config\types.cf.

UnregisterBMC

This custom action occurs during uninstallation.

It calls install script function "createBMCMAP" which runs command "bmcmap.exe -create en HAD".

DeleteExchShellShortcut

This custom action executes only in the case of a minor upgrade.

It calls the install script function DeleteExchShellShortcut to delete unrequired shortcuts.

BackupFiles

This custom action executes only in the case of a minor upgrade.

It calls the install script function BackupFiles to backup all the binaries that the current msi is going to replace with a newer version. This is done in order to regain the previous state of the product when the latest msi is uninstalled.

RestoreFiles

This custom action executes only in the case of an uninstall.

It calls the install script function RestoreFiles to Restore all the binaries that were backed up during installation. This is done in order to regain the previous state of the product when the latest msi is uninstalled.

DeleteBackupDirs

This custom action executes only in the case of an uninstall.

It calls the install script function DeleteBackupDirs to delete all the backup directories created during the installation.

vrtsvcsexch.msi

GetCmdLineParam

This custom action occurs during uninstallation.

It calls install script function 'GetCmdLineParam' which sets property VCS_REPAIR to 1 if REPAIR=ALL is passed to MSI.

InstallAgent

This custom action occurs during installation.

It uses a standard dll stored in a binary table and passes the TYPESFILEPATH property as an argument.

The dll function appends the data of file whose path is specified in TYPESFILEPATH to %VCS_HOME%\conf\config\types.cf.

RearrangeProperties

This custom action occurs during installation. It calls an install script function 'ChangeProperty' which swaps the values of properties if certain conditions are met.

RegisterBMC

This custom action occurs during installation.

It calls install script function "createBMCMAP" which runs command "bmcmap.exe -create en HAD".

SetMessagesPath

This custom action occurs during installation. It sets the value of the VCS_ROOT Directory to the value specified in VCS_ROOT environment variable.

SetTypesFilePath

This custom action occurs during installation/uninstallation.

It modifies the property TYPESFILEPATH by prepending INSTALLDIR to it.

UnInstallAgent

This custom action occurs during uninstallation.

It uses a standard dll stored in binary table and passes TYPESFILEPATH property as an argument.

The dll function removes the data of file whose path is specified in TYPESFILEPATH from %VCS_HOME%\conf\config\types.cf.

UnregisterBMC

This custom action occurs during uninstallation.

It calls install script function "createBMCMAP" which runs command "bmcmap.exe -create en HAD".

DeleteExchShellShortcut

This custom action executes only in the case of a minor upgrade.

It calls the install script function DeleteExchShellShortcut to delete unrequired shortcuts.

BackupFiles

This custom action executes only in the case of a minor upgrade.

It calls the install script function `BackupFiles` to backup all the binaries that the current msi is going to replace with a newer version. This is done in order to regain the previous state of the product when the latest msi is uninstalled.

RestoreFiles

This custom action executes only in the case of an uninstall.

It calls the install script function `RestoreFiles` to Restore all the binaries that were backed up during installation. This is done in order to regain the previous state of the product when the latest msi is uninstalled.

DeleteBackupDirs

This custom action executes only in the case of an uninstall.

It calls the install script function `DeleteBackupDirs` to delete all the backup directories created during the installation.

vrtsvcsev.msi

BackupFiles

This custom action executes only in the case of a minor upgrade.

It calls the install script function `BackupFiles` to backup all the binaries that the current msi is going to replace with a newer version. This is done in order to regain the previous state of the product when the latest msi is uninstalled.

RestoreFiles

This custom action executes only in the case of an uninstall.

It calls the install script function `RestoreFiles` to restore all the binaries that were backed up during installation. This is done in order to regain the previous state of the product when the latest msi is uninstalled.

DeleteBackupDirs

This custom action executes only in the case of an uninstall.

It calls the install script function `DeleteBackupDirs` to delete all the backup directories created during the installation.

vrtsrvgagent.msi

SetMessagesPath

This custom action occurs during installation. It sets the value of the VCS_ROOT Directory to the value specified in VCS_ROOT environment variable.

ISInitAllUsers

This installs the package for all the users on the machine provided the user has administrative privileges. If the current user running the setup on Windows NT or 2000 does not have administrative privileges, then the setup creates an error condition and aborts.

InstallAgent

This custom action occurs during installation.

It uses a standard dll stored in a binary table and passes the TYPESFILEPATH property as an argument.

The dll function appends the data of file whose path is specified in TYPESFILEPATH to %VCS_HOME%\conf\config\types.cf.

UnInstallAgent

This custom action occurs during uninstallation.

It uses a standard dll stored in a binary table and passes the TYPESFILEPATH property as an argument.

The dll function removes the data of file whose path is specified in TYPESFILEPATH from %VCS_HOME%\conf\config\types.cf.

RegisterBMC

This custom action occurs during installation.

It calls install script function "createBMCMAP" which runs command "bmcmap.exe -create en HAD".

LateCopyFile

This Custom Action occurs during installation. The RVGPrimary agent needs to copy defaultagent.dll to RVGPrimary.dll.

CheckifRepairMode

This custom action checks the REINSTALL property. If this property is set to ALL, it sets the VVR_REPAIR property to 1. This property is later used to distinguish between "Uninstall" and "Repair" scenarios.

DeleteCopiedFile

This custom action occurs during Uninstallation. This deletes the RVGPrimary.dll file that is actually a copy of defaultagent.dll. The file is copied during installation by LateCopyFile().

ISSetAllUsers

This custom action checks the value of the ALLUSERS property in the installed version.

ISPreventDowngrade

Installer exits install when a newer version of this product is found

setAllUsersProfile2K

Initializes the ALLUSERSPROFILE directory identifier for Windows 2000 or later.

SetAllUsersProfileNT

Initializes the ALLUSERSPROFILE directory identifier for Windows NT 4.

setUserProfileNT

Initializes the USERPROFILE directory identifier.

CheckForProductUpdates

This custom action launches an executable file called Agent.exe, and it passes the following:

```
[ISUpdateServiceFolder]agent.exe "/au[ProductCode] /EndOfInstall"
```

CheckForProductUpdatesOnReboot

This custom action launches an executable file called Agent.exe, and it passes the following:

```
[ISUpdateServiceFolder]agent.exe "/au[ProductCode] /EndOfInstall /Reboot"
```

CheckOSVers

Checks for OS version. If OS version is not NT it will abort.

vrtsperl.msi

MSI located at ...\\Pkgs\\64\\w2k3\\x64\\VRTSPerl.msi

SET_VXPERL_INSTALLDIR.E08ABA20_BF2C_40F9_88CF_6C9E DCD3D9D5

This custom action always executes.

This sets the directory INSTALLDIR.

CreateRegKey.E08ABA20_BF2C_40F9_88CF_6C9EDCD3D9D5

This custom action occurs during installation.

It calls a standard executable file 'reg.exe' from the SystemFolder to delete the registry key 'HKLM\\SOFTWARE\\Wow6432Node\\Veritas\\VRTSPerl'.

DeleteRegKey.5E3F1237_3D6A_49dc_85D4_C455D3C06152

This custom action occurs during uninstallation.

It calls a standard executable file 'reg.exe' from SystemFolder to delete the registry key 'HKLM\\SOFTWARE\\VERITAS\\VCS'.

CreateRegKey.1664A78F_1A1D_4A2B_8031_D021C1FC349D

This custom action occurs during installation.

It calls a standard executable file 'reg.exe' from the SystemFolder to delete the registry key 'HKLM\\SOFTWARE\\Wow6432Node\\Veritas\\VRTSPerl'.

vrtsperl.msi

MSI located at ...\\Pkgs\\64\\w2k3\\IA64\\VRTSPerl.msi

SET_VXPERL_INSTALLDIR.E08ABA20_BF2C_40F9_88CF_6C9E DCD3D9D5

This custom action always executes.

This sets the directory INSTALLDIR.

CreateRegKey.E08ABA20_BF2C_40F9_88CF_6C9EDCD3D9D5

This custom action occurs during installation.

It calls a standard executable file 'reg.exe' from the SystemFolder to delete the registry key 'HKLM\SOFTWARE\Wow6432Node\Veritas\VRTSPerl'.

DeleteRegKey.5E3F1237_3D6A_49dc_85D4_C455D3C06152

This custom action occurs during uninstallation.

It calls a standard executable file 'reg.exe' from SystemFolder to delete the registry key 'HKLM\SOFTWARE\VERITAS\VCS'.

CreateRegKey.1664A78F_1A1D_4A2B_8031_D021C1FC349D

This custom action occurs during installation.

It calls a standard executable file 'reg.exe' from the SystemFolder to delete the registry key 'HKLM\SOFTWARE\Wow6432Node\Veritas\VRTSPerl'.

vrtsvcstc.msi

GetCmdLineParam

This custom action occurs during uninstallation.

It calls install script function 'GetCmdLineParam' which sets property VCS_REPAIR to 1 if REPAIR=ALL is passed to MSI.

InstallAgent

This custom action occurs during installation.

It uses a standard dll stored in a binary table and passes the TYPESFILEPATH property as an argument.

The dll function appends the data of file whose path is specified in TYPESFILEPATH to %VCS_HOME%\conf\config\types.cf.

SetPerlPath

This custom action occurs during uninstallation.

It sets the value of LIB Directory to the value specified in VRTSPERL_HOME environment variable.

SetTypesFilePath

This custom action occurs during installation\uninstallation.

It modifies property TYPESFILEPATH by prepending INSTALLDIR to it.

UninstallAgent

This custom action occurs during uninstallation.

It uses a standard dll stored in a binary table and passes the TYPESFILEPATH property as an argument.

The dll function removes the data of file whose path is specified in TYPESFILEPATH from %VCS_HOME%\conf\config\types.cf.

RearrangeProperties

This custom action occurs during installation. It calls an install script function, ChangeProperty, which swaps the values of properties if certain conditions are met.

vrtsvcsmm.msi

CopyPerlModule

This custom action is not being called.

DeletePerlModule

This custom action is not being called.

GetCmdLineParam

This custom action occurs during uninstallation.

It calls install script function 'GetCmdLineParam' which sets property VCS_REPAIR to 1 if REPAIR=ALL is passed to MSI.

InstallAgent

This custom action occurs during installation.

It uses a standard dll stored in a binary table and passes the TYPESFILEPATH property as an argument.

The dll function appends the data of file whose path is specified in TYPESFILEPATH to %VCS_HOME%\conf\config\types.cf.

SetPerlPath

This custom action occurs during uninstallation.

It sets the value of LIB Directory to the value specified in VRTSPERL_HOME environment variable.

SetTypesFilePath

This custom action occurs during installation/uninstallation.

It modifies the property TYPESFILEPATH by prepending INSTALLDIR to it.

UnInstallAgent

This custom action occurs during uninstallation.

It uses a standard dll stored in a binary table and passes the TYPESFILEPATH property as an argument.

The dll function removes the data of file whose path is specified in TYPESFILEPATH from %VCS_HOME%\conf\config\types.cf.

ISInitAllUsers

This custom action installs the package for all the users on the system that have administrative privileges. If the current user running the setup on Windows NT or 2000 does not have administrative privileges, then the setup errors out and abort.

vrtsvcsm.msi

CopyPerModule

This custom action is not being called.

DeletePerModule

This custom action is not being called.

GetCmdLineParam

This custom action occurs during uninstallation.

It calls install script function 'GetCmdLineParam' which sets the property VCS_REPAIR to 1 if REPAIR=ALL is passed to MSI.

InstallAgent

This custom action occurs during installation.

It uses a standard dll stored in a binary table and passes the TYPESFILEPATH property as an argument.

The dll function appends the data of file whose path is specified in TYPESFILEPATH to %VCS_HOME%\conf\config\types.cf.

SetPerlPath

This custom action occurs during uninstallation.

It sets the value of LIB Directory to the value specified in VRTSPERL_HOME environment variable.

SetTypesFilePath

This custom action occurs during installation/uninstallation.

It modifies property TYPESFILEPATH by prepending INSTALLDIR to it.

UnInstallAgent

This custom action occurs during uninstallation.

It uses a standard dll stored in a binary table and passes the TYPESFILEPATH property as an argument.

The dll function removes the data of file whose path is specified in TYPESFILEPATH from %VCS_HOME%\conf\config\types.cf.

vrtsvcssrdf.msi

CopyPerlModule

This custom action is not being called.

DeletePerlModule

This custom action is not being called.

GetCmdLineParam

This custom action occurs during uninstallation.

It calls install script function 'GetCmdLineParam' which sets property VCS_REPAIR to 1 if REPAIR=ALL is passed to MSI.

InstallAgent

This custom action occurs during installation.

It uses a standard dll stored in a binary table and passes the TYPESFILEPATH property as an argument.

The dll function appends the data of file whose path is specified in TYPESFILEPATH to %VCS_HOME%\conf\config\types.cf.

RearrangeProperties

This custom action occurs during installation. It calls an install script function 'ChangeProperty' which swaps the values of properties if certain conditions are met.

SetPerlPath

This custom action occurs during uninstallation.

It sets the value of LIB Directory to the value specified in VRTSPERL_HOME environment variable.

SetTypesFilePath

This custom action occurs during installation/uninstallation.

It modifies the property TYPESFILEPATH by prepending INSTALLDIR to it.

UnInstallAgent

This custom action occurs during uninstallation.

It uses a standard dll stored in binary table and passes TYPESFILEPATH property as an argument.

The dll function removes the data of file whose path is specified in TYPESFILEPATH from %VCS_HOME%\conf\config\types.cf.

vrtsvcsst.msi

GetCmdLineParam

This custom action occurs during uninstallation.

It calls install script function 'GetCmdLineParam' which sets property VCS_REPAIR to 1 if REPAIR=ALL is passed to MSI.

InstallAgent

This custom action occurs during installation.

It uses a standard dll stored in a binary table and passes the TYPESFILEPATH property as an argument.

The dll function appends the data of file whose path is specified in TYPESFILEPATH to %VCS_HOME%\conf\config\types.cf.

SetPerlPath

This custom action occurs during uninstallation.

It sets the value of LIB Directory to the value specified in VRTSPERL_HOME environment variable.

SetTypesFilePath

This custom action occurs during installation/uninstallation.

It modifies the property TYPESFILEPATH by prepending INSTALLDIR to it.

UnInstallAgent

This custom action occurs during uninstallation.

It uses a standard dll stored in a binary table and passes the TYPESFILEPATH property as an argument.

The dll function removes the data of file whose path is specified in TYPESFILEPATH from %VCS_HOME%\conf\config\types.cf.

SFW_CCF_Client.msi

RearrangeOldVersionProductGUIDs

This custom action is effective during a major upgrade.

It rearranges the product GUIDs assigned to properties used by the standard action FindRelatedProducts.

This is essential for a correct uninstall order of existing products to be removed by the standard action RemoveExistingProducts.

The custom action is Installscript based.

SxsInstallICA

Introduced as part of VC++ 2005 runtime redistributable merge module.

This redistributable is provided by Microsoft.

SxsUninstallICA

Introduced as part of VC++ 2005 runtime redistributable merge module.

This redistributable is provided by Microsoft.

SFW_CCF_Server.msi

RearrangeOldVersionProductGUIDs

This custom action is effective during a major upgrade.

It rearranges the product GUIDs assigned to properties used by the standard action FindRelatedProducts.

This is essential for a correct uninstall order of existing products to be removed by the standard action RemoveExistingProducts.

The custom action is Installscript based.

SetPluginHostEnv.5EE7B3AE_A09F_4BDF_9F54_A99B526938BC

This custom action occurs during installation. It adds a multi-string type name-value pair to Plugin_Host service registry key during install.

Details of name-value pair added are as follow:

Name - Environment

Value - EAT_HOME_DIR=[INSTALLDIR value under registry key
HKEY_LOCAL_MACHINE\SOFTWARE\Veritas\VRTSobc\pal33\Agents]

SxsInstallICA

Introduced as part of VC++ 2005 runtime redistributable merge module.

This redistributable is provided by Microsoft.

SxsUninstallICA

Introduced as part of VC++ 2005 runtime redistributable merge module.

This redistributable is provided by Microsoft.

vrtsvcscscm.msi

ReadVRTSJrePath

Reads the JRE path from the registry and stores it in the VRTS_JRE MSI property.

RemoveOldProductsRegKey

Deletes the Old product registry entries from
HKLM\Software\Microsoft\Windows\CurrentVersion\Uninstall.

DeleteCMDir_Deferred

If there are files in the INSTALLDIR that are generated after the product is installed, then the uninstall does not remove the INSTALLDIR directory. This custom action will forcefully delete it.

DelayAction

Delays the execution by 6 seconds.

SET_CSCM_INSTALLDIR.0599CF94_3DB7_457E_B242_451CA572A539

Sets the INSTALLDIR for the javagui merge module according to the INSTALLDIR of the main installer.

vrtsvcssim.msi

Set_VRTSATDIR

This function determines if AT is already installed. If it is already installed, then this custom action sets the AT MSM's target path to the already installed AT target path, stopping at the security directory. (i.e. It truncates Authentication from the AT install path.) If AT is not already installed, this custom action sets the AT install path to programfiles]\veritas\security\.

IsVCSInstalled

This custom action determines if VCS is installed on the system by looking at the registry. If VCS is already installed on the system, then the INSTALLDIR is set to the VCS home directory location.

CreateGUIShortcuts

This function creates a desktop shortcut and starts the program menu. It creates the Symantec folder and the simulator shortcut in the folder.

DeleteGUIShortcuts

This function deletes the desktop shortcut and start program menu.

SET_CSCM_INSTALLDIR.0599CF94_3DB7_457E_B242_451CA572A539

Sets the INSTALLDIR for javagui merge module according to the INSTALLDIR of the Main installer.

**SET_SIM_INSTALLDIR.29235CD5_2232_473E_AA0B_C3B45B
0F6189**

This custom action sets the INSTALLDIR for the simulator merge module according to the INSTALLDIR of the Main installer.

vrtsat_configure

(Type: 18)

Runs vssconfig.exe.

Setup.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 6)

Sets up the initial properties required for fresh install.

UpgradePrereq.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 6)

Prevents downgrade in minor upgrades.

**CheckPasswordLength.FEE190A6_8D92_4E49_AB5E_67715B
F6527F**

(Type: 6)

Checks if the password entered by user matches the criteria.

Res_ARP.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 6)

Restores ARP entries after restore.

SetAtInstallDir.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 6)

Sets default AT installdir.

upgrade_bak.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 6)

Backups data during upgrade.

upgrade_res.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 6)

Restores backed data after upgrade.

Bak_ARP.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 70)

Backup add/remove program entries for Rollback.

CheckClean32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 70)

Checks if 32 bit can be cleanly uninstalled or not.

CheckCleanUninstall.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 70)

Checks if either 32/64 can be cleanly uninstalled.

CheckCorrectUp.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 70)

Checks if product can be upgraded or not.

CheckIfPossible32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 70)

Checks if 32 bit can be properly upgraded.

CheckIsServerInstalled.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 70)

Checks if server is installed or not before installing.

CheckResetPassword.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 70)

Resets the password of the domain administrator.

CheckUninstall32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 70)

Checks if 32 bit can be uninstalled or not.

CreateConfig.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 70)

Creates config file for configuration.

DoRollback_bak.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 70)

Backup the binaries for rollback.

DoRollback_restore.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 70)

Sets the properties required for restore and calls appropriate custom actions.

Folder_Delete.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 70)

Deletes some folders created by programs during uninstallation.

GetProductCode.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 70)

Gets the product code of the installed product during rollback/restore.

Installer_bak32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 70)

Backups 32 bit installer information from registry.

Installer_res32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 70)

Restores 32 bit installer information to the registry.

Reg_Delete.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 70)

Extra clean up for uninstallation.

Rollback_bak32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 70)

Rollbacks 32 bit packages.

Rollback_restore32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 70)

Restore 32 bit package.

SetCustomProp.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 70)

Sets the required properties for installation/upgrade by calling appropriate custom action.

SetDefaultInstallDir.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 70)

Calls 32 bit custom action for setting install directory.

Setaddversion.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 70)

Sets the values required for deferred custom action addversion.

Setinstalldir.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 70)

Sets installdir required during uninstall.

copyfromtemp.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 70)

Copies the data from temp to installdir while rollback/restore.

ChangePwd.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 1094)

Changes the domain password after the service is installed.

addversion.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 1094)

Adds the version in the registry.

doconfig.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 1094)

Performs the configuration operation.

CheckClean64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 4166)

Checks if 64 bit can be cleanly uninstalled or not.

CheckIfPossible64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 4166)

Checks if 64 bit can be properly upgraded.

CheckUninstall64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 4166)

Checks if 64 bit can be uninstalled or not.

Installer_bak64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 4166)

Backups 64 bit installer information from registry.

Installer_res64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 4166)

Restores 64 bit installer information to the registry.

Rollback_bak64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 4166)

Rolls back 64 bit packages.

Rollback_restore64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 4166)

Restore 64 bit package.

SetDefaultInstallDir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 4166)

Calls 64 bit custom action for setting install directory.

bakupreg64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 4166)

Backup 64 bit registry during rollback.

regdelete_64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 4166)

Extra clean up for uninstallation for 64 bit.

restorereg64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 4166)

Restores 64 bit ARP entries after restore.

reg_change.FEE190A6_8D92_4E49_AB5E_67715BF6527F

(Type: 5190)

Changes registry with proper values of service.

Veritas Cluster Management Console (Single Cluster Mode).msi

LoadProperties

This function loads the properties from the installer.properties file to the MSI properties at install time. It also loads properties from the Management Server's Install registry key and loads the MSI properties.

PreventExecution

This custom action exits the installer, if it runs without the java front-end.

CreateManagementServerGUIShortcut

This custom action creates a shortcut for Management Server.

DeleteManagementServerGUIShortcut

This custom action deletes the shortcut for Management Server.

EditManagementServerConfigFile

This custom action edits the configuration file for Management Server.

EditManagementServerLoggingPropertiesFile

This custom action edits the properties file for Management Server install logs.

FinalCleanupMS

This custom action first removes the database file, the database data directory, the entire database directory, the availability directory, any remaining VSS files, and the CommandCentral directory (only if it's empty).

RemoveMSDirectory

This custom action removes the bin directory, the conf directory, the search directory, the ManagementServer, and the database log directory.

RemoveManagementServerLogFiles

This custom action deletes the Management Server log directory.

RemoveWebConsoleFiles

This custom action removes the expanded files from the WAR file in [VRTSweb Home]/VERITAS/[web app name].

CreateWebConsoleService

This custom action creates the Web Console Service.

DeleteWebConsoleService

This custom action deletes the Web Console Service.

StartWebAppService

This custom action starts the WebApp Service.

StopWebAppService

This custom action stops the WebApp Service.

BackupVCSShortcuts

This custom action backs up VCS shortcuts during SFW 5.0 to SFW 5.1 upgrade tasks.

RestoreVCSShortcuts

This custom action restores VCS shortcuts during SFW 5.0 to SFW 5.1 upgrade tasks.

Setaddversion.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets the values required for deferred custom action addversion.

addversion.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Adds the version in the registry.

SetAtInstallDir.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets default AT intalldir.

SystemFolder.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Gets the system folder.

Setup.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets up the initial properties required for fresh install.

SetCustomProp.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets the required properties for installation/upgrade by calling appropriate custom action.

SetDefaultInstallDir.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Calls 32 bit custom action for setting install directory.

SetDefaultInstallDir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Calls 64 bit custom action for setting install directory.

Setinstalldir.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets installdir required during uninstall.

SetServiceName.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Changes the service name from VERITAS to Symantec.

BackupProfileDir32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

64 bit backs up 32 bit systemprofile while upgrading.

BackupProfileDir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

32 bit backs up 64 bit systemprofile while upgrading.

BackupSelfProfileDir32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

32 bit install backs up its own systemprofile.

BackupSelfProfileDir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

64 bit install backs up its own systemprofile.

Bak_ARP.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backup add/remove program entries for Rollback.

bakupreg64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backup 64 bit registry while rollback.

ChangePwd.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Changes the domain password after the service is installed.

CheckClean32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 32 bit can be cleanly uninstalled or not.

CheckClean64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 64 bit can be cleanly uninstalled or not.

CheckCleanUninstall.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if either 32/64 can be cleanly uninstalled.

CheckCorrectUp.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if product can be upgraded or not.

CheckIfPossible32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 32 bit can be properly upgraded.

CheckIfPossible64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 64 bit can be properly upgraded.

CheckIsServerInstalled.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if server is installed or not before installing.

CheckPasswordLength.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if the password entered by user matches the criteria.

CheckResetPassword.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Resets the password of the domain administrator.

CheckUninstall32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 32 bit can be uninstalled or not.

CheckUninstall64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 64 bit can be uninstalled or not.

Copy_64bit_systemprofile.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Copies 64 bit systemprfile while 32 bit is getting installed and 64 bit EAT already exists.

Copy_64bit_systemprofile32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Copies 32 bit systemprfile while 64 bit is getting installed and 32 bit EAT already exists.

copyfromtemp.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Copies the data from temp to installdir while rollback/restore.

CreateConfig.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Creates config file for configuration.

deleteprofiledir32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Deletes some files in profiles dire when 32 bit package is uninstalled.

deleteprofiledir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Deletes some files in profiles dire when 64 bit package is uninstalled.

doconfig.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Does the configuration.

DoRollback_bak.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backsup the binaries for rollback.

DoRollback_restore.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets the properties required for restore and calls appropriate Custom actions.

Rollback_restore32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restore 32 bit package.

Rollback_restore64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restore 64 bit package.

editRunvssatguiBat.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Edits runvssatgui.bat after installation with proper install path.

Folder_Delete.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Deletes some folders created by programs during uninstillation.

GetProductCode.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Gets the product code of the installed product during Rollback/Restore.

Installer_bak32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backups 32 bit installer information from registry.

Installer_bak64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backups 64 bit installer information from registry.

Installer_res32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores 32 bit installer information to the registry.

Installer_res64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores 64 bit installer information to the registry.

ProfileDirCleanUp.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Calls proper clean up routine for 32/64.

ReadProfileDir32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Reads 32 bit profile directory from registry.

ReadProfileDir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Reads 64 bit profile directory from registry.

reg_change.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Changes registry with proper values of service.

Reg_Delete.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Extra clean up for uninstallation.

regdelete_64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Extra clean up for uninstallation for 64 bit.

Res_ARP.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores ARP entries after restore.

restorereg64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores 64 bit ARP entries after restore.

Rollback_bak_32_64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Calls appropriate 32/64 bit Custom actions.

Rollback_bak32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Rollbacks 32 bit packages.

Rollback_bak64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Rollbacks 64 bit packages.

upgrade_bak.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backups data during upgrade.

upgrade_res.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores backed data after upgrade.

UpGradePrereq.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Prevents downgrade in minor upgrades.

vrtsat_configure

Runs vssconfig.exe.

cl2serverup

Sets the properties for upgrade from client to client+server.

createlhc

Create VRTSat_lhc directory for home less users.

GenerateRootDiscovery

Generate Root Discovery list.

Install64amdReg

On AMD64 export registry.

Install64Reg

On IA64 export registry.

makeshort.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Make shortcut for AT.

removeshort.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Remove shortcut during uninstallation.

StopDwongrade

Stop downgrade.

SetProcArch.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets the processor arch needed to stop downgrade custom action.

SysComponentRemove.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Used to remove upgrade entry from 4.2 exe to msi.

SetATMSMTargetPath.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets MSM target Path.

backup_reg32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

This is to backup/restore 32 bit hive during 64 bit upgrade.

createconfigfile

Creates a config file required for setup.

Common Custom Actions introduced by InstallShield

DLLWrapStartup

A standard DLL wrapper that extracts data that describes calls.

This is a .dll custom action. The name of the file is dllwrap.dll, and its entry point is DLLWrapStartup.

CheckForProductUpdates

This custom action launches an executable file called Agent.exe, and it passes the following:

```
[ISUpdateServiceFolder]agent.exe "/au[ProductCode] /EndOfInstall"
```

CheckForProductUpdatesOnReboot

This custom action launches an executable file called Agent.exe, and it passes the following:

```
[ISUpdateServiceFolder]agent.exe "/au[ProductCode] /EndOfInstall /Reboot"
```

ISPrint

This is a Windows Installer .dll custom action. The name of the .dll file is SetAllUsers.dll, and its entry point is PrintScrollableText.

It prints the contents of a ScrollableText control on a dialog.

setAllUsersProfile2K

Initializes the ALLUSERSPROFILE directory identifier for Windows 2000 or later.

SetAllUsersProfileNT

Initializes the ALLUSERSPROFILE directory identifier for Windows NT 4.

SetARPINSTALLLOCATION

Sets the value of the ARPINSTALLLOCATION property to the fully qualified path for the applications primary folder.

SetUserProfileNT

Initializes the USERPROFILE directory identifier.

ISSelfRegisterFinalize

Displays error information for files that failed to self-register.

ISSelfRegisterCosting

Immediate-execution action that reads the ISSelfReg table and determines which files need to be registered or unregistered.

A file will be registered when its component is scheduled to be installed, and unregistered when its component is scheduled to be uninstalled.

ISSetAllUsers

This custom action checks the value of the ALLUSERS property in the installed version.

ISSelfRegisterFiles

Deferred-execution custom action that registers each file whose component is scheduled to be installed.

ISUnSelfRegisterFiles

Deferred-execution custom action that unregisters each file whose component is scheduled to be removed.

DLLWrapCleanup

Standard DLL wrapper that cleans extracted data.

This is a windows installer .dll custom action. The name of the file is dllwrap.dll, and its entry point is DLLWrapCleanup.

ISPreventDowngrade

Installer exits install when a newer version of this product is found

EngineStartup.4F635B62_07BF_4779_B74E_D80C29D508E3

This custom action concerns the InstallShield script engine.

InstallISScript.4F635B62_07BF_4779_B74E_D80C29D508E3

This custom action concerns the InstallShield script engine.

vrtsobc33.msi

CheckForUpgrade

Checks for a newer version on the system.

DirectoryCleanUp

Custom clean up during uninstallation.

SetDefaultInstallDir32

Checks for pre-existing install directory during upgrade.

vrtsobc.msi

CanUninstall

Verifies that uninstallation can proceed.

CheckFixedLocation

Checks pre-existing install directory during upgrade.

CheckForFxATPackage

Checks for VxSS prerequisite.

CreateOSUUIDFile

Creates UUID file, if it does not already exist.

CustomAction1

Prevents downgrade.

RegisterConfFile

Registers .conf file type in registry.

RestoreSavedRegistry

Restores earlier saved registry data.

SavePropertiesForDeferAction

Saves properties for deferred action.

SetFullHostName

Sets full host name.

SetHostMode

Sets host mode.

SetInstallDir

Sets install directory.

SetSetHostModeProperty

Sets property to be used for deferred action.

SetUninstallCleanUpProperty

Sets property to be used for deferred action.

SetWriteCsfResolveConfigFileProperty

Sets property to be used for deferred action.

UIUpgradePrepare

Flag used to control UI dialog flow.

UninstallCleanUp

Custom clean up during uninstallation.

UpgradeFinish

Signal end of upgrade and clears "UpgradeInProgress".

UpgradePrepare

Sets "UpgradeInProgress" and saves registry data.

WriteCsfResolveConfigFile

Creates "Csf_resolve.conf" file.

CheckForUpgrade.F177FED4_37B1_4013_862E_A84652938810

Checks if newer version already exists.

DirectoryCleanUp.F177FED4_37B1_4013_862E_A84652938810

Custom clean up during uninstallation.

SetDefaultInstallDir32.F177FED4_37B1_4013_862E_A84652938810

Checks pre-existing install directory during upgrade.

RegisterConfFileType

Creates windows file type association for .conf files.

vrtsob.msi

CanUninstall

Verifies that uninstallation can proceed.

CheckFixedLocation

Checks pre-existing install directory during upgrade.

CustomAction1

Prevents downgrade.

CheckForObcPackage

Checks Obc prerequisite.

CheckForFxATPackage

Checks VxSS prerequisite.

MergeOrCopyVIPTypes

Merges objecttypes.xml.

MergeOrCopyVxInterfaceTypes

Merges interfaceform.xml.

MergeSecurityFormXML

Merges securityform.xml.

ModifyRegistry

Restores some registry data.

RestoreSavedRegistry

Restores earlier saved registry data.

SavePropertiesForDeferAction

Saves properties for deferred action.

SecurityConfig

Runs cfgsecurity.bat.

SetInstallDir

Sets install directory.

SetRestoreSavedRegistryProperty

Sets restore saved registry property.

SetSecurityConfigProperty

Sets security config property.

SetStartObServiceProperty

Sets start Obs service property.

SetUninstallCleanUpProperty

Sets uninstall clean up property.

StartObService

Starts Obs service.

StopObService

Stops Obs service.

UIUpgradePrepare

Flag used to control UI dialog flow.

UninstallCleanUp

Custom clean up during uninstallation.

UpgradeFinish

Signals end of upgrade and clear "UpgradeInProgress".

UpgradePrepare

Sets "UpgradeInProgress" and saves registry data.

ChangeObServiceRecoveryConfig

Set parameters for the service with regards to what needs to be done when the service fails to start.

vrtsobgui.msi

CanUninstall

Verifies that uninstallation can proceed.

CheckFixedLocation

Checks pre-existing install directory during upgrade.

CheckForIA

Checks if target host has Itanium processor architecture.

CheckForFxATPackage

Checks VxSS prerequisite.

CheckOSLevel

Checks target OS version for Vista level OS or later version.

CustomAction1

Prevents downgrade.

isVRTSatServerInstalled

Determines whether or not to install VRTSatServer.

SetAtClientPath

Sets up the AppPath.

SetInstallDir

Sets install directory.

SetStrippedInstallPath

Modifies the install directory with the environment setting.

SetUninstallCleanUpProperty

Sets property to be used for deferred action.

UIUpgradePrepare

Flag used to control UI dialog flow.

UninstallCleanUp

Custom clean up during uninstallation.

UpgradeFinish

Signals end of upgrade and clears "UpgradeInProgress".

UpgradePrepare

Sets "UpgradeInProgress" and saves registry data.

vrtsccg.msi

CheckFixedLocation

Checks pre-existing install directory during upgrade.

CheckForObcPackage

Checks Obc prerequisite.

InstallGridNodeService

Installs grid node service.

MergeInterfaceFormXML

Merges interfaceform.xml.

MergeSecurityFormXML

Merges securityform.xml.

MergeTypeXML

Merges objecttypes.xml.

PreRemove

Removes configuration of agent if in DC mode.

SavePropertiesForDeferAction

Saves properties for deferred action.

SecurityConfig

Runs cfgsecurity.bat.

SetInstallDir

Sets install directory.

SetSecurityConfigProperty

Sets property to be used for deferred action.

SetStartGridNodeServiceProperty

Sets property to be used for deferred action.

SetUninstallCleanUpProperty

Sets property to be used for deferred action.

StartGridNodeService

Starts grid node service.

StopGridNodeService

Stops grid node service.

UIUpgradePrepare

Flag used to control UI dialog flow.

UninstallCleanUp

Custom clean up during uninstallation.

UpgradeFinish

Signal end of upgrade and clears "UpgradeInProgress".

UpgradePrepare

Sets "UpgradeInProgress" and saves registry data.

vrtsaa.msi**CheckFixedLocation**

Checks pre-existing install directory during upgrade.

CheckForAP_TEP

Custom action not performed.

CheckForCCG

Checks gridnode prerequisite.

CheckForObcPackage

Checks Obc prerequisite.

CheckForVRTSPerl

Checks VRTSPerl prerequisite.

InstallActionAgentService

Installs action agent service.

Later_version_check_action

Prevents downgrade.

MergeInterfaceFormXML

Merges interfaceform.xml.

MergeSecurityFormXML

Merges securityform.xml.

PostInstall

Configures actionagent.

PreRemove

Removes configuration of agent if in DC mode.

SavePropertiesForDeferAction

Saves properties for deferred action.

SetInstallDir

Sets install directory.

SetPostInstallProperty

Sets property to be used for deferred action.

SetStartActionAgentServiceProperty

Sets property to be used for deferred action.

SetUninstallCleanUpProperty

Sets property to be used for deferred action.

StartActionAgentService

Starts action agent service.

StopActionAgentService

Stops action agent service.

UIUpgradePrepare

Flag used to control UI dialog flow.

UninstallCleanUp

Custom clean up during uninstallation.

UpgradeFinish

Signal end of upgrade and clears "UpgradeInProgress".

UpgradePrepare

Set "UpgradeInProgress" and saves registry data.

Symantec Private Branch Exchange.msi

MSI located at ...\\Pkgs\\64\\w2k3\\IA64\\Symantec Private Branch Exchange.msi

CheckForUpgrade

Checks whether major upgrade is occurring. If upgrade is occurring, then a dialog box is displayed asking the user whether upgrade is required or not. It displays the dialog box only when UILevel is 5.

CheckClusters.B2D5B6C9_4698_42F7_AC9D_955789A69556

Checks whether target machine is one of the nodes of a VCS or MSCS cluster. It also and sets the property CONFIGUREVCS or CONFIGUREMSCS.

setRegistryValues.B2D5B6C9_4698_42F7_AC9D_955789A69556

Sets certain properties like PBXDEBUGLEVEL, PBXINSECURE, etc. that would be used for setting values for various PBX registry keys.

setMergeModuleDestination.B2D5B6C9_4698_42F7_AC9D_955789A69556

Sets INSTALLDIR. B2D5B6C9_4698_42F7_AC9D_955789A69556 to the appropriate location.

noteDepSvcWeStop.B2D5B6C9_4698_42F7_AC9D_955789A69556

Collects the list of SCM services that depend on PBX SCM service.

uninstallMSCSConfigure.B2D5B6C9_4698_42F7_AC9D_955789A69556

Removes configuration of PBX resource from an MSCS cluster.

uninstallVCSConfigure.B2D5B6C9_4698_42F7_AC9D_955789A69556

Removes configuration of PBX resource from a VCS cluster.

ConfigureVCS.B2D5B6C9_4698_42F7_AC9D_955789A69556

Configures the PBX resource in a VCS cluster.

setMergeModuleINSTALLDIR.B2D5B6C9_4698_42F7_AC9D_955789A69556

Sets INSTALLDIR. B2D5B6C9_4698_42F7_AC9D_955789A69556 to the appropriate location.

setDetectExistingICSCO.E4609B1C_501D_4AA4_AF38_145F89C24603

Sets the property DetectExistingICSCO to INSTALLDIR of ICSCO merge module.

SetMMProperties.E4609B1C_501D_4AA4_AF38_145F89C24603

Sets certain properties like PREVIOUSMMVERSION, BackupMM, etc. used by other custom actions of the ICSCO merge module.

SetMMProperties.B2D5B6C9_4698_42F7_AC9D_955789A69556

Sets certain properties like PREVIOUSMMVERSION, BackupMM, etc. used by other custom actions of the PBX merge module.

startDepSvcs.B2D5B6C9_4698_42F7_AC9D_955789A69556

Starts dependent services noted down by the noteDepSvcsWeStop custom action after an upgrade.

rollbackPBX.B2D5B6C9_4698_42F7_AC9D_955789A69556

This is a rollback type of custom action. It stops and deletes the PBX SCM service during rollback.

rollbackStartPBXService.B2D5B6C9_4698_42F7_AC9D_955789A69556

This is a rollback type of custom action. It starts the PBX service when rollback occurs during an upgrade.

DeleteSharedDIIEntry.B2D5B6C9_4698_42F7_AC9D_955789A69556

Deletes the PBX related registry entries in "HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\SharedDLLs" if they exist.

CreatePBXScripts.B2D5B6C9_4698_42F7_AC9D_955789A69556

Creates batch files needed for starting the PBX service and also to create a batch file for "pbxcfg.exe".

CreatePBXService.B2D5B6C9_4698_42F7_AC9D_955789A69556

Creates an SCM entry for the PBX service.

ConfigureMSCS.B2D5B6C9_4698_42F7_AC9D_955789A69556

Configures the PBX resource in the MSCS cluster.

MMStopService.E4609B1C_501D_4AA4_AF38_145F89C24603

Stops the SMF service if installed during a PBX upgrade as SMF. It uses libraries from the ICSCO merge module.

BackupMM.E4609B1C_501D_4AA4_AF38_145F89C24603

It takes back-up of existing ICSCO files before installation of new files during PBX upgrade.

RollbackMM.E4609B1C_501D_4AA4_AF38_145F89C24603

Rollbacks ICSCO files to earlier files that had been backed up during the PBX upgrade.

MMTerminateProcess.B2D5B6C9_4698_42F7_AC9D_955789A69556

Terminates the PBX process to stop the PBX service during a PBX upgrade.

BackupMM.B2D5B6C9_4698_42F7_AC9D_955789A69556

Takes back-up of existing PBX files before installation of new files during a PBX upgrade.

MMTerminateProcessUninstall.B2D5B6C9_4698_42F7_AC9D_955789A69556

Terminates the PBX process and stops the PBX service during downgrading the PBX in an uninstall.

RollbackMM.B2D5B6C9_4698_42F7_AC9D_955789A69556

Rollbacks PBX files to earlier files that had been backed up during a PBX upgrade.

DetectExistingICSCO.E4609B1C_501D_4AA4_AF38_145F89C24603

Checks whether ICSCO has been installed on target machine.

CleanRegistry.E4609B1C_501D_4AA4_AF38_145F89C24603

Deletes ICSCO related registry entries during PBX uninstall.

UndoBackupMM.E4609B1C_501D_4AA4_AF38_145F89C24603

Undoes effect of custom action, BackMM, in ICSCO merge module during rollback.

UndoBackupMM.B2D5B6C9_4698_42F7_AC9D_955789A69556

Undoes effect of custom action, BackMM, in PBX merge module during rollback.

MMStartService.E4609B1C_501D_4AA4_AF38_145F89C24603

Starts PBX service after PBX upgrade.

Symantec Private Branch Exchange.msi

MSI located at ...\\Pkgs\\64\\w2k3\\x64\\Symantec Private Branch Exchange.msi

CheckForUpgrade

Checks whether major upgrade is occurring. If upgrade is occurring, then a dialog box is displayed asking the user whether upgrade is required or not. It displays the dialog box only when UILevel is 5.

CheckClusters.B2D5B6C9_4698_42F7_AC9D_955789A69556

Checks whether target machine is one of the nodes of a VCS or MSCS cluster. It also and sets the property CONFIGUREVCS or CONFIGUREMSCS.

setRegistryValues.B2D5B6C9_4698_42F7_AC9D_955789A69556

Sets certain properties like PBXDEBUGLEVEL, PBXINSECURE, etc. that would be used for setting values for various PBX registry keys.

setMergeModuleDestination.B2D5B6C9_4698_42F7_AC9D_955789A69556

Sets INSTALLDIR. B2D5B6C9_4698_42F7_AC9D_955789A69556 to the appropriate location.

noteDepSvcWeStop.B2D5B6C9_4698_42F7_AC9D_955789A69556

Collects the list of SCM services that depend on PBX SCM service.

uninstallMSCSConfigure.B2D5B6C9_4698_42F7_AC9D_955789A69556

Removes configuration of PBX resource from an MSCS cluster.

uninstallVCSConfigure.B2D5B6C9_4698_42F7_AC9D_955789A69556

Removes configuration of PBX resource from a VCS cluster.

ConfigureVCS.B2D5B6C9_4698_42F7_AC9D_955789A69556

Configures the PBX resource in a VCS cluster.

setMergeModuleINSTALLDIR.B2D5B6C9_4698_42F7_AC9D_955789A69556

Sets INSTALLDIR. B2D5B6C9_4698_42F7_AC9D_955789A69556 to the appropriate location.

setDetectExistingICSCO.E4609B1C_501D_4AA4_AF38_145F89C24603

Sets the property DetectExistingICSCO to INSTALLDIR of ICSCO merge module.

SetMMProperties.E4609B1C_501D_4AA4_AF38_145F89C24603

Sets certain properties like PREVIOUSMMVERSION, BackupMM, etc. used by other custom actions of the ICSCO merge module.

SetMMProperties.B2D5B6C9_4698_42F7_AC9D_955789A69556

Sets certain properties like PREVIOUSMMVERSION, BackupMM, etc. used by other custom actions of the PBX merge module.

startDepSvc.B2D5B6C9_4698_42F7_AC9D_955789A69556

Starts dependent services noted down by the noteDepSvcWeStop custom action after an upgrade.

rollbackPBX.B2D5B6C9_4698_42F7_AC9D_955789A69556

This is a rollback type of custom action. It stops and deletes the PBX SCM service during rollback.

rollbackStartPBXService.B2D5B6C9_4698_42F7_AC9D_955789A69556

This is a rollback type of custom action. It starts the PBX service when rollback occurs during an upgrade.

DeleteSharedDIIEntry.B2D5B6C9_4698_42F7_AC9D_955789A69556

Deletes the PBX related registry entries in "HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\SharedDLLs" if they exist.

CreatePBXScripts.B2D5B6C9_4698_42F7_AC9D_955789A69556

Creates batch files needed for starting the PBX service and also to create a batch file for "pbxcfg.exe".

CreatePBXService.B2D5B6C9_4698_42F7_AC9D_955789A69556

Creates an SCM entry for the PBX service.

ConfigureMSCS.B2D5B6C9_4698_42F7_AC9D_955789A69556

Configures the PBX resource in the MSCS cluster.

MMStopService.E4609B1C_501D_4AA4_AF38_145F89C24603

Stops the SMF service if installed during a PBX upgrade as SMF. It uses libraries from the ICSCO merge module.

BackupMM.E4609B1C_501D_4AA4_AF38_145F89C24603

It takes back-up of existing ICSCO files before installation of new files during PBX upgrade.

RollbackMM.E4609B1C_501D_4AA4_AF38_145F89C24603

Rollbacks ICSCO files to earlier files that had been backed up during the PBX upgrade.

MMTerminateProcess.B2D5B6C9_4698_42F7_AC9D_955789A69556

Terminates the PBX process to stop the PBX service during a PBX upgrade.

BackupMM.B2D5B6C9_4698_42F7_AC9D_955789A69556

Takes back-up of existing PBX files before installation of new files during a PBX upgrade.

MMTerminateProcessUninstall.B2D5B6C9_4698_42F7_AC9D_955789A69556

Terminates the PBX process and stops the PBX service during downgrading the PBX in an uninstall.

RollbackMM.B2D5B6C9_4698_42F7_AC9D_955789A69556

Rollbacks PBX files to earlier files that had been backed up during a PBX upgrade.

DetectExistingICSCO.E4609B1C_501D_4AA4_AF38_145F89C24603

Checks whether ICSCO has been installed on target machine.

CleanRegistry.E4609B1C_501D_4AA4_AF38_145F89C24603

Deletes ICSCO related registry entries during PBX uninstall.

UndoBackupMM.E4609B1C_501D_4AA4_AF38_145F89C24603

Undoes effect of custom action, BackMM, in ICSCO merge module during rollback.

UndoBackupMM.B2D5B6C9_4698_42F7_AC9D_955789A69556

Undoes effect of custom action, BackMM, in PBX merge module during rollback.

**MMStartService.E4609B1C_501D_4AA4_AF38_145F89C2460
3**

Starts PBX service after PBX upgrade.

vrtsweb.msi**SETVRTSWEBDIR.91020995_C2CB_4C23_8260_B372E73755
17**

Sets the VRTSweb INSTALLDIR property if AppSearch was able to determine a previous install.

FAIL_INSTALL_IF_HIGHER_VERSION_ALREADY_INSTALLED

Checks whether higher version is already installed and takes appropriate action.

ISSetAllUsers

This custom action checks the value of the ALLUSERS property in Installshield. It uses a function from the standard .dll stored in a binary table of msi files.

**CLEANLOGFOLDER.91020995_C2CB_4C23_8260_B372E7375
517**

Cleans up log directory during uninstallation.

**CLEANROOTFOLDER.91020995_C2CB_4C23_8260_B372E737
5517**

Cleans up expanded ROOT directory during uninstallation.

**CLEANWORKFOLDER.91020995_C2CB_4C23_8260_B372E73
75517**

Cleans up work directory during uninstallation.

**RESTORECONFIG.91020995_C2CB_4C23_8260_B372E73755
17**

Restarts the server during upgrade/downgrade.

SAVECONFIG.91020995_C2CB_4C23_8260_B372E7375517

Saves runtime.xml during upgrade/downgrade.

SETVRTSWEBDIR.91020995_C2CB_4C23_8260_B372E7375517

Sets VRTSweb INSTALLEDIR property if AppSearch determines a previous install.

setUserProfileNT

Initializes the USERPROFILE directory identifier.

SetAllUsersProfileNT

Initializes the ALLUSERSPROFILE directory identifier for Windows NT 4.

setAllUsersProfile2K

Initializes the ALLUSERSPROFILE directory identifier for Windows 2000 or later.

SetARPReadme

The custom action resolves the directory identifier used in the Add/Remove Programs Read Me property.

SetPropertyForCleanLog.91020995_C2CB_4C23_8260_B372E7375517

Sets the ALLUSERSPROFILE property for CleanLogFolder action.

SetPropertyForCleanROOT.91020995_C2CB_4C23_8260_B372E7375517

Sets the ALLUSERSPROFILE property for CleanROOTFolder action.

SetPropertyForCleanWork.91020995_C2CB_4C23_8260_B372E7375517

Sets the ALLUSERSPROFILE property for CleanWorkFolder action.

SetPropertyForRestConfig.91020995_C2CB_4C23_8260_B372E7375517

Sets the InstallDir property for SaveConfig and RestoreConfig actions.

SetPropertyForSaveConfig.91020995_C2CB_4C23_8260_B372E7375517

Sets the InstallDir property for SaveConfig and RestoreConfig actions.

vrtsjre.msi

FAIL_INSTALL_IF_HIGHER_VERSION_ALREADY_INSTALLED

This custom action occurs during install and stops the installation if a later version is already installed. It uses a function from the standard .dll stored in a binary table of msi files.

ISetAllUsers

This custom action checks the value of the ALLUSERS property in the Installshield.

SETVRTSJREINSTALLDIR.B55F9816_21A8_4121_875A_A3409AF80E42Type

Sets VRTSjre INSTALLDIR property if AppSearch determines a previous install.

SetARPReadme

Displays the Readme File path in a Windows Installer-based project.

setUserProfileNT

Initializes the USERPROFILE directory identifier.

SetAllUsersProfileNT

Initializes the ALLUSERSPROFILE directory identifier for Windows NT 4.

setAllUsersProfile2K

Initializes the ALLUSERSPROFILE directory identifier for Windows 2000 or later.

vm.msi

MSI located at ...\\Pkgs\\64\\w2k3\\x64\\VM.msi

SetBuildVersion

Sets the build version with each new build.

V_CaSetOSType

Sets the OS type for the install.

CheckforSP1

No longer used under VPI.

CaSetInstallMode

Determines install or maintenance mode.

DetectOSUpgrade

Detects if operating system has been upgraded.

DetectOldVM

Detects for earlier versions of VM.

SetMrbProperty

Sets property if DOAM is on system.

VXIOping

Checks if VXIO has previously been installed.

CheckVOBReqFirst

No longer used under VPI.

CopyLicensingFiles

Copies licensing files if not installed by VPI.

V_CalsClusterInstalled

Checks for cluster installation.

V_CaGetVCSStatus

Checks for VCS.

getInstalldir1

Gets INSTALLDIR for Lodctr.

getInstalldir2

Gets INSTALLDIR for VVR_MSCS_Register.

getInstalldir3

Gets INSTALLDIR for ExtensDLL.

getInstalldir4

Gets INSTALLDIR for OnlineRegister. No longer used.

getUnInstalldir

Gets uninstall directory.

MsiSetVOBPath

Sets VM path to property.

StopServicesNow

Stops all required services.

UpgradePrepare

Prepares steps necessary for upgrade.

SetVMFeatures

Sets VM features to install/uninstall.

VCaGetLicenseKeyStatus2xVM

Retries Licensekey without VPI.

VVALIDATELICENSEKEY2xVM

Validate LicenseKey without VPI.

V_CaShowLicenseError

LicenseError display without VPI.

V_CaVCS_MSCS_Check

Determines if VCS and MSCS installed.

RemoveDependentEntries

Removes VM dependent entries.

DMP_Settings_Save

Save DMP settings prior to upgrade.

DriverEntries_Save

Saves VM driver settings prior to upgrade.

DriverEntries_Restore

Restore VM driver settings.

ReCopyLicensingFiles

Copy license files in maintenance mode.

CanUninstall

Detects whether dependent entries are under VM.

CaAbortSetup

Aborts setup.

CheckForReboot

Checks for Reboot without VPI.

Set_ARPINSTALLLOCATION

Sets Add/Remove location.

VxsasUninstall

Uninstall the Vxsas service.

RenameMAPFileBack

Renames VRTS-vm-mapfile.xml due to Installshield bug.

RenameW2KHelpFile

Renames W2KdiskMgmtchm.

RestorePreviousConfig

Turns LDM services back to start value of 0.

RestoreCopyBootInfo

Restores boot info from vxio to dmio.

UnExtensDLL

Unregisters LDM MFC snap-in.

VSS_UnRegister

Unregisters VSS.

VDS_unRegister

Unregisters VDS.

LatestartSVC_Uninstall

Uninstalls LateStartSvc.

SchedulerSVC_Uninstall

Uninstalls SchedulerSvc.

UnLodctr

Unload VM performance counter.

UnLodctr_VVR

Unload VVR performance counter.

UninstallVxioPnpEntries

Removes VxioPNP entries.

RemoveVXIOWReg

Cleans up VXIO upon reboot.

UninstallDMP

Uninstall DMP entries.

V_CaClusterServerUninstall

Removes cluster components.

V_CaVvrClusterServerUninstall

Removes VVR cluster components.

VVR_RVG_RSC_UnRegMSCS

Unregisters VVR cluster Resource type.

VVR_RVG_RSC_UnRegVVR

Unregisters VVR cluster Resource type.

VVR_vxffdc_Uninstall

Unregisters vxffdc.

SetMSCSTimeOutValue_Restore

Restores MSCS Timeout Value.

BlowInstalledProducts

Wipes clean of installed products clean.

UpgradeFinish

Cleans up registry of version being upgraded from.

ASR_Uninstall

Uninstalls ASR components.

LDMSnapIn_Restore

Restores LDMSnapIn GUID. (Resolves incident 110686.)

SetMarbleRegKeys_Restore

Restores Marble settings.

V_CaRemoveLicenseKey2xVM

Removes license keys during uninstall without VPI.

DeleteExtensionDIR

Cleans client extension GUIDs.

SetMarbleRegKeys

Sets marble keys for systems with DOAM installed during upgrade.

rollback_DisablePreviousEntries

Rollback for DisablePreviousEntries.

DisablePreviousEntries

Disables LDM services.

MoveCCG_vxvm

Resolves internal bug 636950.

rollback_ASR_Install

Rollback for ASR_Install custom action.

ASR_Install

Registers ASR components.

rollback_LDMSnapIn_Modify

Rollback for LDMSnapIn_Modify custom action.

LDMSnapIn_Modify

Saves LDM MMC Snapin GUID.

SetMarbleEnvPath

Sets Marble environment path during upgrade.

rollback_UnLoadctr

Rollback for lodctr custom action.

Lodctr

Loads VM counters.

Lodctr_VVR

Loads VVR counters.

EnableStatCounters

Registers diskperf counter.

ModifySecurityform

Dynamically modifies security form xml files.

SaveDelRunOnce

Saves RunOnce information during VM driver installation.

rollback_instPNP123

Rollback custom action for V_CaInstPNP.

V_CaInstPNP

Custom action for VM driver installation.

V_CaInstPNPUpgrade

Custom action for VM driver installation during upgrade.

INSTPnPCheck

Checks for proper VM driver installation.

DMP_Settings_Restore

Restores DMP settings from upgrade of previous version.

SaveDelRunOnceRestore

Restores RunOnce settings after VM driver installation.

rollback_CopyBootInfo

Rollback custom action for CopyBootInfo.

CopyBootInfo

Copies boot info from dmio setting to vxio.

StopVxsas

Stops vxsas service.

rollback_V_CaInstallLicenseKey2xVM

Rollback custom action forV_CaInstallLicenseKey2xVM.

V_CaInstallLicenseKey2xVM

License key installation.

rollback_ExtensDLL

Rollback custom action for ExtensDLL.

VSS_Register

Registers the VSS component.

VDS_Register

Registers the VDS component.

LateStartSVC

Registers the LateStartSvc.

SchedulerSVC

Registers the SchedulerSVC.

Vxsas_Install

Installs the Vxsas Service.

ClusterSupportInstall

Installs MSCS components and feature.

ServerTask_Install

Performs server related installation tasks.

UpgradeServices_Registry

Performs upgraded related tasks for post install.

VVR_RVG_RSC_Ex_Reg

Registers the VVR-MSCS Resource type.

VVR_RVG_RSC_Reg_MSCS_VVR

Registers the VVR-MSCS Resource type.

VVR_vxffdc_Install

Registers vxffdc.

SetQuorumArbitrationTime

Sets the Quorum ArbitrationTime.

SetMSCSTimeOutValue

Sets the MSCS Timeout value.

ExtensDLL

Registers the MFC LDM snap-in.

AddSelfDependentEntry

Adds self dependency so VM does not get uninstalled.

RemoveVMClientEntries

Cleans up VM Client entries during uninstall.

RemoveVMServerEntries

Cleans up VM Server entries during uninstall.

UninstallCleanup

Cleans up MISC entries during uninstall.

RenameMAPFile

Renames VRTS-vm-mapfilexml due to Installshield bug.

RemoveVxpoliciesFile

Cleans up policy files during uninstall.

V_CaWriteInstallLog

Logs installation for C++ custom actions.

V_CaVvrClusterInstalled

Verifies that VVR_MSCS is installed.

RemoveLicensingFiles

Remove licensing files.

StartVxob

Starts the vxob service.

AlterMachineINF

Modifies machine inf file.

Ca_RemoveLicSerialNumberFromReg

Removes license serial number from registry.

Ca_SetLicSerialNumberInReg

Sets License serial number in registry.

CancelSetup

Cancels setup.

checkVOB

Checks for VEA.

ClusterSupportUnInstall

Uninstalls cluster support.

CopyVXIO

Copies VXIO.

Create_BUS_ENUM_FAILED

Creates BUS_ENUM_FAILED key.

Create_BUS_ENUM_FAILED_OnInstall

Creates BUS_ENUM_FAILED key.

CreateVPILangKey

Creates VPI language key.

GetSetupLanguage

Gets setup language.

MSCS_VVR_CHK

Checks for VVR and MSCS.

MSCS_VVR_Copyfile

Copies VVR and files when MSCS present.

MSCS_VVR_Deletefile

Deletes VVR files when MSCS present.

RemoveUpgradeRegEntry

Removes Upgrade registry entries.

RenameSysDvcName

Renames system device.

RestoreMachineINF

Restores machine inf file.

rollback_CopyVXIO

Rollback action.

rollback_InstPNP

Rollback aciton.

rollback_InstPNPVxDMP

Rollback action.

rollback_VVR_MSCS_Register

Rollback action.

rollback_VxPnPSvc_Registry

Rollback action.

ServerTask_UnInstall

Server uninstall tasks.

SetOLDVMVERSION

Sets property for OLDVMVERSION.

SetVPItoZero

Sets VPI property to zero.

UninstallMessage

Uninstalls Message.

V_Ca_VM_Features_Check

Checks for VM features.

V_CaClusterServerInstall

Checks for MSCS install.

V_CaDeleteFiles

Deletes unused files

V_CaMarbleCheck

Checks for Marble.

V_CaMarbleInstall

Registers Marble installation.

V_CaRegisterExtensionDLL_CLIENT

Registers client extension.

V_CaSaveMarbleSettings

Saves Marble settings.

V_CaVM525_Check

Checks for 535 existence.

V_CREATE_INF_FILES

Creates inf files.

V_REMOVE_TARGET_DIR

Removes targaret folder.

VValidateOldLicenseKey2xVM

Validates old license key.

VVR_DCOMBridge_Reg

Registers VVR_DCOM_bridge.

VVR_DCOMBridge_UnReg

Unregisters VVRDCOMbridge.

VVR_MSCS_UnRegister

Unregisters MSCS.

VVR_RVG_RSC_Ex_UnReg

Unregisters VVR RVG resource.

VXIO_Registry

Includes vxio required entries.

VxPnPSvc_Registry

Includes VM required registry.

V_CaMarbleUnInstall

Uninstalls Marble.

**DIRCA_NEWRETARGETABLEPROPERTY1.4AB1E07A42324427
9405976422D30FC4**

Third-party custom action from Microsoft merge module.

rollback_VXIO_Registry

Rolls back VXIO registry.

TestMsg1

Test Message 1

TestMsg2

Test Message 2

TestMsg3

Test Message 3

C

Type 65 Installshield custom action.

vm.msi

MSI located at ...\\Pkgs\\64\\w2k3\\IA64\\VM.msi

SetBuildVersion

Sets the build version with each new build.

V_CaSetOSType

Sets the OS type for the install.

CheckforSP1

No longer used under VPI.

CaSetInstallMode

Determines install or maintenance mode.

DetectOSUpgrade

Detects if operating system has been upgraded.

DetectOldVM

Detects for earlier versions of VM.

SetMrbProperty

Sets property if DOAM is on system.

VXIOping

Checks if VXIO has previously been installed.

CheckVOBReqFirst

No longer used under VPI.

CopyLicensingFiles

Copies licensing files if not installed by VPI.

V_CalsClusterInstalled

Checks for cluster installation.

V_CaGetVCSStatus

Checks for VCS.

getInstalldir1

Gets INSTALLDIR for Lodctr.

getInstalldir2

Gets INSTALLDIR for VVR_MSCS_Register.

getInstalldir3

Gets INSTALLDIR for ExtensDLL.

getInstalldir4

Gets INSTALLDIR for OnlineRegister. No longer used.

getUnInstalldir

Gets uninstall directory.

MsiSetVOBPath

Sets VM path to property.

StopServicesNow

Stops all required services.

UpgradePrepare

Prepares steps necessary for upgrade.

SetVMFeatures

Sets VM features to install/uninstall.

VCaGetLicenseKeyStatus2xVM

Retries Licensekey without VPI.

VVALIDATELICENSEKEY2xVM

Validate LicenseKey without VPI.

V_CaShowLicenseError

LicenseError display without VPI.

V_CaVCS_MSCS_Check

Determines if VCS and MSCS installed.

RemoveDependentEntries

Removes VM dependent entries.

DMP_Settings_Save

Save DMP settings prior to upgrade.

DriverEntries_Save

Saves VM driver settings prior to upgrade.

DriverEntries_Restore

Restore VM driver settings.

ReCopyLicensingFiles

Copy license files in maintenance mode.

CanUninstall

Detects whether dependent entries are under VM.

CaAbortSetup

Aborts setup.

CheckForReboot

Checks for Reboot without VPI.

Set_ARPINSTALLLOCATION

Sets Add/Remove location.

VxsasUninstall

Uninstall the Vxsas service.

RenameMAPFileBack

Renames VRTS-vm-mapfile.xml due to Installshield bug.

RenameW2KHelpFile

Renames W2KdiskMgmtchm.

RestorePreviousConfig

Turns LDM services back to start value of 0.

RestoreCopyBootInfo

Restores boot info from vxio to dmio.

UnExtensDLL

Unregisters LDM MFC snap-in.

VSS_UnRegister

Unregisters VSS.

VDS_unRegister

Unregisters VDS.

LatestartSVC_Uninstall

Uninstalls LateStartSvc.

SchedulerSVC_Uninstall

Uninstalls SchedulerSvc.

UnLodctr

Unload VM performance counter.

UnLodctr_VVR

Unload VVR performance counter.

UninstallVxioPnpEntries

Removes VxioPNP entries.

RemoveVXIOReg

Cleans up VXIO upon reboot.

UninstallDMP

Uninstall DMP entries.

V_CaClusterServerUninstall

Removes cluster components.

V_CaVvrClusterServerUninstall

Removes VVR cluster components.

VVR_RVG_RSC_UnRegMSCS

Unregisters VVR cluster Resource type.

VVR_RVG_RSC_UnRegVVR

Unregisters VVR cluster Resource type.

VVR_vxffdc_Uninstall

Unregisters vxffdc.

SetMSCSTimeOutValue_Restore

Restores MSCS Timeout Value.

BlowInstalledProducts

Wipes clean of installed products clean.

UpgradeFinish

Cleans up registry of version being upgraded from.

ASR_Uninstall

Uninstalls ASR components.

LDMSnapIn_Restore

Restores LDMSnapIn GUID. (Resolves incident 110686.)

SetMarbleRegKeys_Restore

Restores Marble settings.

V_CaRemoveLicenseKey2xVM

Removes license keys during uninstall without VPI.

DeleteExtensionDIR

Cleans client extension GUIDs.

SetMarbleRegKeys

Sets marble keys for systems with DOAM installed during upgrade.

rollback_DisablePreviousEntries

Rollback for DisablePreviousEntries.

DisablePreviousEntries

Disables LDM services.

MoveCCG_vxvm

Resolves internal bug 636950.

rollback_ASR_Install

Rollback for ASR_Install custom action.

ASR_Install

Registers ASR components.

rollback_LDMSnapIn_Modify

Rollback for LDMSnapIn_Modify custom action.

LDMSnapIn_Modify

Saves LDM MMC Snapin GUID.

SetMarbleEnvPath

Sets Marble environment path during upgrade.

rollback_UnLoadctr

Rollback for lodctr custom action.

Lodctr

Loads VM counters.

Lodctr_VVR

Loads VVR counters.

EnableStatCounters

Registers diskperf counter.

ModifySecurityform

Dynamically modifies security form xml files.

SaveDelRunOnce

Saves RunOnce information during VM driver installation.

rollback_instPNP123

Rollback custom action for V_CaInstPNP.

V_CaInstPNP

Custom action for VM driver installation.

V_CaInstPNPUpgrade

Custom action for VM driver installation during upgrade.

INSTPnPCheck

Checks for proper VM driver installation.

DMP_Settings_Restore

Restores DMP settings from upgrade of previous version.

SaveDelRunOnceRestore

Restores RunOnce settings after VM driver installation.

rollback_CopyBootInfo

Rollback custom action for CopyBootInfo.

CopyBootInfo

Copies boot info from dmio setting to vxio.

StopVxsas

Stops vxsas service.

rollback_V_CaInstallLicenseKey2xVM

Rollback custom action forV_CaInstallLicenseKey2xVM.

V_CalInstallLicenseKey2xVM

License key installation.

rollback_ExtensDLL

Rollback custom action for ExtensDLL.

VSS_Register

Registers the VSS component.

VDS_Register

Registers the VDS component.

LateStartSVC

Registers the LateStartSvc.

SchedulerSVC

Registers the SchedulerSVC.

Vxsas_Install

Installs the Vxsas Service.

ClusterSupportInstall

Installs MSCS components and feature.

ServerTask_Install

Performs server related installation tasks.

UpgradeServices_Registry

Performs upgraded related tasks for post install.

VVR_RVG_RSC_Ex_Reg

Registers the VVR-MSCS Resource type.

VVR_RVG_RSC_Reg_MSCS_VVR

Registers the VVR-MSCS Resource type.

VVR_vxffdc_Install

Registers vxffdc.

SetQuorumArbitrationTime

Sets the Quorum ArbitrationTime.

SetMSCSTimeOutValue

Sets the MSCS Timeout value.

ExtensDLL

Registers the MFC LDM snap-in.

AddSelfDependentEntry

Adds self dependency so VM does not get uninstalled.

RemoveVMClientEntries

Cleans up VM Client entries during uninstall.

RemoveVMServerEntries

Cleans up VM Server entries during uninstall.

UninstallCleanup

Cleans up MISC entries during uninstall.

RenameMAPFile

Renames VRTS-vm-mapfilexml due to Installshield bug.

RemoveVxpoliciesFile

Cleans up policy files during uninstall.

V_CaWriteInstallLog

Logs installation for C++ custom actions.

V_CaVvrClusterInstalled

Verifies that VVR_MSCS is installed.

RemoveLicensingFiles

Remove licensing files.

StartVxob

Starts the vxob service.

AlterMachineINF

Modifies machine inf file.

Ca_RemoveLicSerialNumberFromReg

Removes license serial number from registry.

Ca_SetLicSerialNumberInReg

Sets License serial number in registry.

CancelSetup

Cancels setup.

checkVOB

Checks for VEA.

ClusterSupportUnInstall

Uninstalls cluster support.

CopyVXIO

Copies VXIO.

Create_BUS_ENUM_FAILED

Creates BUS_ENUM_FAILED key.

Create_BUS_ENUM_FAILED_OnInstall

Creates BUS_ENUM_FAILED key.

CreateVPILangKey

Creates VPI language key.

GetSetupLanguage

Gets setup language.

MSCS_VVR_CHK

Checks for VVR and MSCS.

MSCS_VVR_Copyfile

Copies VVR and files when MSCS present.

MSCS_VVR_Deletefile

Deletes VVR files when MSCS present.

RemoveUpgradeRegEntry

Removes Upgrade registry entries.

RenameSysDvcName

Renames system device.

RestoreMachineINF

Restores machine inf file.

rollback_CopyVXIO

Rollback action.

rollback_InstPNP

Rollback aciton.

rollback_InstPNPVxDMP

Rollback action.

rollback_VVR_MSCS_Register

Rollback action.

rollback_VxPnPSvc_Registry

Rollback action.

ServerTask_UnInstall

Server uninstall tasks.

SetOLDVMVERSION

Sets property for OLDVMVERSION.

SetVPItoZero

Sets VPI property to zero.

UninstallMessage

Uninstalls Message.

V_Ca_VM_Features_Check

Checks for VM features.

V_CaClusterServerInstall

Checks for MSCS install.

V_CaDeleteFiles

Deletes unused files

V_CaMarbleCheck

Checks for Marble.

V_CaMarbleInstall

Registers Marble installation.

V_CaRegisterExtensionDLL_CLIENT

Registers client extension.

V_CaSaveMarbleSettings

Saves Marble settings.

V_CaVM525_Check

Checks for 535 existence.

V_CREATE_INF_FILES

Creates inf files.

V_REMOVE_TARGET_DIR

Removes targaret folder.

VValidateOldLicenseKey2xVM

Validates old license key.

VVR_DCOMBridge_Reg

Registers VVR_DCOM_bridge.

VVR_DCOMBridge_UnReg

Unregisters VVRDCOMbridge.

VVR_MSCS_UnRegister

Unregisters MSCS.

VVR_RVG_RSC_Ex_UnReg

Unregisters VVR RVG resource.

VXIO_Registry

Includes vxio required entries.

VxPnPSvc_Registry

Includes VM required registry.

V_CaMarbleUnInstall

Uninstalls Marble

**DIRCA_NEWRETARGETABLEPROPERTY1.4AB1E07A42324427
9405976422D30FC4**

Third-party custom action from Microsoft merge module.

rollback_VXIO_Registry

Rolls back VXIO registry.

TestMsg1

Test Message 1.

TestMsg2

Test Message 2.

TestMsg3

Test Message 3.

C

Type 65 Installshield custom action.

vm.msi

MSI located at ...\\Pkgs\\64\\w2k8\\x64\\VM.msi

SetBuildVersion

Sets the build version with each new build.

V_CaSetOSType

Sets the OS type for the install.

CheckforSP1

No longer used under VPI.

CaSetInstallMode

Determines install or maintenance mode.

DetectOSUpgrade

Detects if operating system has been upgraded.

DetectOldVM

Detects for earlier versions of VM.

SetMrbProperty

Sets property if DOAM is on system.

VXIOping

Checks if VXIO has previously been installed.

CheckVOBReqFirst

No longer used under VPI.

CopyLicensingFiles

Copies licensing files if not installed by VPI.

V_CalsClusterInstalled

Checks for cluster installation.

V_CaGetVCSStatus

Checks for VCS.

getInstalldir1

Gets INSTALLDIR for Lodctr.

getInstalldir2

Gets INSTALLDIR for VVR_MSCS_Register.

getInstalldir3

Gets INSTALLDIR for ExtensDLL.

getInstalldir4

Gets INSTALLDIR for OnlineRegister. No longer used.

getUnInstalldir

Gets uninstall directory.

MsiSetVOBPath

Sets VM path to property.

StopServicesNow

Stops all required services.

UpgradePrepare

Prepares steps necessary for upgrade.

SetVMFeatures

Sets VM features to install/uninstall.

VCaGetLicenseKeyStatus2xVM

Retries Licensekey without VPI.

VVALIDATELICENSEKEY2xVM

Validate LicenseKey without VPI.

V_CaShowLicenseError

LicenseError display without VPI.

V_CaVCS_MSCS_Check

Determines if VCS and MSCS installed.

RemoveDependentEntries

Removes VM dependent entries.

DMP_Settings_Save

Save DMP settings prior to upgrade.

DriverEntries_Save

Saves VM driver settings prior to upgrade.

DriverEntries_Restore

Restore VM driver settings.

ReCopyLicensingFiles

Copy license files in maintenance mode.

CanUninstall

Detects whether dependent entries are under VM.

CaAbortSetup

Aborts setup.

CheckForReboot

Checks for Reboot without VPI.

Set_ARPINSTALLLOCATION

Sets Add/Remove location.

VxsasUninstall

Uninstall the Vxsas service.

RenameMAPFileBack

Renames VRTS-vm-mapfile.xml due to Installshield bug.

RenameW2KHelpFile

Renames W2KdiskMgmtchm.

RestorePreviousConfig

Turns LDM services back to start value of 0.

RestoreCopyBootInfo

Restores boot info from vxio to dmio.

UnExtensDLL

Unregisters LDM MFC snap-in.

VSS_UnRegister

Unregisters VSS.

VDS_unRegister

Unregisters VDS.

LatestartSVC_Uninstall

Uninstalls LateStartSvc.

SchedulerSVC_Uninstall

Uninstalls SchedulerSvc.

UnLodctr

Unload VM performance counter.

UnLodctr_VVR

Unload VVR performance counter.

UninstallVxioPnpEntries

Removes VxioPNP entries.

RemoveVXIOReg

Cleans up VXIO upon reboot.

UninstallDMP

Uninstall DMP entries.

V_CaClusterServerUninstall

Removes cluster components.

V_CaVvrClusterServerUninstall

Removes VVR cluster components.

VVR_RVG_RSC_UnRegMSCS

Unregisters VVR cluster Resource type.

VVR_RVG_RSC_UnRegVVR

Unregisters VVR cluster Resource type.

VVR_vxffdc_Uninstall

Unregisters vxffdc.

SetMSCSTimeOutValue_Restore

Restores MSCS Timeout Value.

BlowInstalledProducts

Wipes clean of installed products clean.

UpgradeFinish

Cleans up registry of version being upgraded from.

ASR_Uninstall

Uninstalls ASR components.

LDMSnapIn_Restore

Restores LDMSnapIn GUID. (Resolves incident 110686.)

SetMarbleRegKeys_Restore

Restores Marble settings.

V_CaRemoveLicenseKey2xVM

Removes license keys during uninstall without VPI.

DeleteExtensionDIR

Cleans client extension GUIDs.

SetMarbleRegKeys

Sets marble keys for systems with DOAM installed during upgrade.

rollback_DisablePreviousEntries

Rollback for DisablePreviousEntries.

DisablePreviousEntries

Disables LDM services.

MoveCCG_vxvm

Resolves internal bug 636950.

rollback_ASR_Install

Rollback for ASR_Install custom action.

ASR_Install

Registers ASR components.

rollback_LDMSnapIn_Modify

Rollback for LDMSnapIn_Modify custom action.

LDMSnapIn_Modify

Saves LDM MMC Snapin GUID.

SetMarbleEnvPath

Sets Marble environment path during upgrade.

rollback_UnLoadctr

Rollback for lodctr custom action.

Lodctr

Loads VM counters.

Lodctr_VVR

Loads VVR counters.

EnableStatCounters

Registers diskperf counter.

ModifySecurityform

Dynamically modifies security form xml files.

SaveDelRunOnce

Saves RunOnce information during VM driver installation.

rollback_instPNP123

Rollback custom action for V_CaInstPNP.

V_CaInstPNP

Custom action for VM driver installation.

V_CaInstPNPUpgrade

Custom action for VM driver installation during upgrade.

INSTPnPCheck

Checks for proper VM driver installation.

DMP_Settings_Restore

Restores DMP settings from upgrade of previous version.

SaveDelRunOnceRestore

Restores RunOnce settings after VM driver installation.

rollback_CopyBootInfo

Rollback custom action for CopyBootInfo.

CopyBootInfo

Copies boot info from dmio setting to vxio.

StopVxsas

Stops vxsas service.

rollback_V_CaInstallLicenseKey2xVM

Rollback custom action for V_CaInstallLicenseKey2xVM.

V_CaInstallLicenseKey2xVM

License key installation.

rollback_ExtensDLL

Rollback custom action for ExtensDLL.

VSS_Register

Registers the VSS component.

VDS_Register

Registers the VDS component.

LateStartSVC

Registers the LateStartSvc.

SchedulerSVC

Registers the SchedulerSVC.

Vxsas_Install

Installs the Vxsas Service.

ClusterSupportInstall

Installs MSCS components and feature.

ServerTask_Install

Performs server related installation tasks.

UpgradeServices_Registry

Performs upgraded related tasks for post install.

VVR_RVG_RSC_Ex_Reg

Registers the VVR-MSCS Resource type.

VVR_RVG_RSC_Reg_MSCS_VVR

Registers the VVR-MSCS Resource type.

VVR_vxffdc_Install

Registers vxffdc.

SetQuorumArbitrationTime

Sets the Quorum ArbitrationTime.

SetMSCSTimeOutValue

Sets the MSCS Timeout value.

ExtensDLL

Registers the MFC LDM snap-in.

AddSelfDependentEntry

Adds self dependency so VM does not get uninstalled.

RemoveVMClientEntries

Cleans up VM Client entries during uninstall.

RemoveVMServerEntries

Cleans up VM Server entries during uninstall.

UninstallCleanup

Cleans up MISC entries during uninstall.

RenameMAPFile

Renames VRTS-vm-mapfilexml due to Installshield bug.

RemoveVxpoliciesFile

Cleans up policy files during uninstall.

V_CaWriteInstallLog

Logs installation for C++ custom actions.

V_CaVvrClusterInstalled

Verifies that VVR_MSCS is installed.

RemoveLicensingFiles

Remove licensing files.

StartVxob

Starts the vxob service.

AlterMachineINF

Modifies machine inf file.

Ca_RemoveLicSerialNumberFromReg

Removes license serial number from registry.

Ca_SetLicSerialNumberInReg

Sets License serial number in registry.

CancelSetup

Cancels setup.

checkVOB

Checks for VEA.

ClusterSupportUnInstall

Uninstalls cluster support.

CopyVXIO

Copies VXIO.

Create_BUS_ENUM_FAILED

Creates BUS_ENUM_FAILED key.

Create_BUS_ENUM_FAILED_OnInstall

Creates BUS_ENUM_FAILED key.

CreateVPILangKey

Creates VPI language key.

GetSetupLanguage

Gets setup language.

MSCS_VVR_CHK

Checks for VVR and MSCS.

MSCS_VVR_Copyfile

Copies VVR and files when MSCS present.

MSCS_VVR_Deletefile

Deletes VVR files when MSCS present.

RemoveUpgradeRegEntry

Removes Upgrade registry entries.

RenameSysDvcName

Renames system device.

RestoreMachineINF

Restores machine inf file.

rollback_CopyVXIO

Rollback action.

rollback_InstPNP

Rollback aciton.

rollback_InstPNPVxDMP

Rollback action.

rollback_VVR_MSCS_Register

Rollback action.

rollback_VxPnPSvc_Registry

Rollback action.

ServerTask_UnInstall

Server uninstall tasks.

SetOLDVMVERSION

Sets property for OLDVMVERSION.

SetVPItoZero

Sets VPI property to zero.

UninstallMessage

Uninstalls Message.

V_Ca_VM_Features_Check

Checks for VM features.

V_CaClusterServerInstall

Checks for MSCS install.

V_CaDeleteFiles

Deletes unused files

V_CaMarbleCheck

Checks for Marble.

V_CaMarbleInstall

Registers Marble installation.

V_CaRegisterExtensionDLL_CLIENT

Registers client extension.

V_CaSaveMarbleSettings

Saves Marble settings.

V_CaVM525_Check

Checks for 535 existence.

V_CREATE_INF_FILES

Creates inf files.

V_REMOVE_TARGET_DIR

Removes targaret folder.

VValidateOldLicenseKey2xVM

Validates old license key.

VVR_DCOMBridge_Reg

Registers VVR_DCOM_bridge.

VVR_DCOMBridge_UnReg

Unregisters VVRDCOMbridge.

VVR_MSCS_UnRegister

Unregisters MSCS.

VVR_RVG_RSC_Ex_UnReg

Unregisters VVR RVG resource.

VXIO_Registry

Includes vxio required entries.

VxPnPSvc_Registry

Includes VM required registry.

V_CaMarbleUnInstall

Uninstalls Marble.

**DIRCA_NEWRETARGETABLEPROPERTY1.4AB1E07A42324427
9405976422D30FC4**

Third-party custom action from Microsoft merge module.

rollback_VXIO_Registry

Rolls back VXIO registry.

TestMsg1

Test Message 1

TestMsg2

Test Message 2

TestMsg3

Test Message 3

C

Type 65 Installshield custom action.

vm.msi

MSI located at ...\\Pkgs\\64\\w2k8\\IA64\\VM.msi

SetBuildVersion

Sets the build version with each new build.

V_CaSetOSType

Sets the OS type for the install.

CheckforSP1

No longer used under VPI.

CaSetInstallMode

Determines install or maintenance mode.

DetectOSUpgrade

Detects if operating system has been upgraded.

DetectOldVM

Detects for earlier versions of VM.

SetMrbProperty

Sets property if DOAM is on system.

VXIOping

Checks if VXIO has previously been installed.

CheckVOBReqFirst

No longer used under VPI.

CopyLicensingFiles

Copies licensing files if not installed by VPI.

V_CalsClusterInstalled

Checks for cluster installation.

V_CaGetVCSStatus

Checks for VCS.

getInstalldir1

Gets INSTALLDIR for Lodctr.

getInstalldir2

Gets INSTALLDIR for VVR_MSCS_Register.

getInstalldir3

Gets INSTALLDIR for ExtensDLL.

getInstalldir4

Gets INSTALLDIR for OnlineRegister. No longer used.

getUnInstalldir

Gets uninstall directory.

MsiSetVOBPath

Sets VM path to property.

StopServicesNow

Stops all required services.

UpgradePrepare

Prepares steps necessary for upgrade.

SetVMFeatures

Sets VM features to install/uninstall.

VCaGetLicenseKeyStatus2xVM

Retries Licensekey without VPI.

VVALIDATELICENSEKEY2xVM

Validate LicenseKey without VPI.

V_CaShowLicenseError

LicenseError display without VPI.

V_CaVCS_MSCS_Check

Determines if VCS and MSCS installed.

RemoveDependentEntries

Removes VM dependent entries.

DMP_Settings_Save

Save DMP settings prior to upgrade.

DriverEntries_Save

Saves VM driver settings prior to upgrade.

DriverEntries_Restore

Restore VM driver settings.

ReCopyLicensingFiles

Copy license files in maintenance mode.

CanUninstall

Detects whether dependent entries are under VM.

CaAbortSetup

Aborts setup.

CheckForReboot

Checks for Reboot without VPI.

Set_ARPINSTALLLOCATION

Sets Add/Remove location.

VxsasUninstall

Uninstall the Vxsas service.

RenameMAPFileBack

Renames VRTS-vm-mapfile.xml due to Installshield bug.

RenameW2KHelpFile

Renames W2KdiskMgmtchm.

RestorePreviousConfig

Turns LDM services back to start value of 0.

RestoreCopyBootInfo

Restores boot info from vxio to dmio.

UnExtensDLL

Unregisters LDM MFC snap-in.

VSS_UnRegister

Unregisters VSS.

VDS_unRegister

Unregisters VDS.

LatestartSVC_Uninstall

Uninstalls LateStartSvc.

SchedulerSVC_Uninstall

Uninstalls SchedulerSvc.

UnLodctr

Unload VM performance counter.

UnLodctr_VVR

Unload VVR performance counter.

UninstallVxioPnpEntries

Removes VxioPNP entries.

RemoveVXIOReg

Cleans up VXIO upon reboot.

UninstallDMP

Uninstall DMP entries.

V_CaClusterServerUninstall

Removes cluster components.

V_CaVvrClusterServerUninstall

Removes VVR cluster components.

VVR_RVG_RSC_UnRegMSCS

Unregisters VVR cluster Resource type.

VVR_RVG_RSC_UnRegVVR

Unregisters VVR cluster Resource type.

VVR_vxffdc_Uninstall

Unregisters vxffdc.

SetMSCSTimeOutValue_Restore

Restores MSCS Timeout Value.

BlowInstalledProducts

Wipes clean of installed products clean.

UpgradeFinish

Cleans up registry of version being upgraded from.

ASR_Uninstall

Uninstalls ASR components.

LDMSnapIn_Restore

Restores LDMSnapIn GUID. (Resolves incident 110686.)

SetMarbleRegKeys_Restore

Restores Marble settings.

V_CaRemoveLicenseKey2xVM

Removes license keys during uninstall without VPI.

DeleteExtensionDIR

Cleans client extension GUIDs.

SetMarbleRegKeys

Sets marble keys for systems with DOAM installed during upgrade.

rollback_DisablePreviousEntries

Rollback for DisablePreviousEntries.

DisablePreviousEntries

Disables LDM services.

MoveCCG_vxvm

Resolves internal bug 636950.

rollback_ASR_Install

Rollback for ASR_Install custom action.

ASR_Install

Registers ASR components.

rollback_LDMSnapIn_Modify

Rollback for LDMSnapIn_Modify custom action.

LDMSnapIn_Modify

Saves LDM MMC Snapin GUID.

SetMarbleEnvPath

Sets Marble environment path during upgrade.

rollback_UnLoadctr

Rollback for lodctr custom action.

Lodctr

Loads VM counters.

Lodctr_VVR

Loads VVR counters.

EnableStatCounters

Registers diskperf counter.

ModifySecurityform

Dynamically modifies security form xml files.

SaveDelRunOnce

Saves RunOnce information during VM driver installation.

rollback_instPNP123

Rollback custom action for V_CaInstPNP.

V_CaInstPNP

Custom action for VM driver installation.

V_CaInstPNPUpgrade

Custom action for VM driver installation during upgrade.

INSTPnPCheck

Checks for proper VM driver installation.

DMP_Settings_Restore

Restores DMP settings from upgrade of previous version.

SaveDelRunOnceRestore

Restores RunOnce settings after VM driver installation.

rollback_CopyBootInfo

Rollback custom action for CopyBootInfo.

CopyBootInfo

Copies boot info from dmio setting to vxio.

StopVxsas

Stops vxsas service.

rollback_V_CaInstallLicenseKey2xVM

Rollback custom action forV_CaInstallLicenseKey2xVM.

V_CaInstallLicenseKey2xVM

License key installation.

rollback_ExtensDLL

Rollback custom action for ExtensDLL.

VSS_Register

Registers the VSS component.

VDS_Register

Registers the VDS component.

LateStartSVC

Registers the LateStartSvc.

SchedulerSVC

Registers the SchedulerSVC.

Vxsas_Install

Installs the Vxsas Service.

ClusterSupportInstall

Installs MSCS components and feature.

ServerTask_Install

Performs server related installation tasks.

UpgradeServices_Registry

Performs upgraded related tasks for post install.

VVR_RVG_RSC_Ex_Reg

Registers the VVR-MSCS Resource type.

VVR_RVG_RSC_Reg_MSCS_VVR

Registers the VVR-MSCS Resource type.

VVR_vxffdc_Install

Registers vxffdc.

SetQuorumArbitrationTime

Sets the Quorum ArbitrationTime.

SetMSCSTimeOutValue

Sets the MSCS Timeout value.

ExtensDLL

Registers the MFC LDM snap-in.

AddSelfDependentEntry

Adds self dependency so VM does not get uninstalled.

RemoveVMClientEntries

Cleans up VM Client entries during uninstall.

RemoveVMServerEntries

Cleans up VM Server entries during uninstall.

UninstallCleanup

Cleans up MISC entries during uninstall.

RenameMAPFile

Renames VRTS-vm-mapfilexml due to Installshield bug.

RemoveVxpoliciesFile

Cleans up policy files during uninstall.

V_CaWriteInstallLog

Logs installation for C++ custom actions.

V_CaVvrClusterInstalled

Verifies that VVR_MSCS is installed.

RemoveLicensingFiles

Remove licensing files.

StartVxob

Starts the vxob service.

AlterMachineINF

Modifies machine inf file.

Ca_RemoveLicSerialNumberFromReg

Removes license serial number from registry.

Ca_SetLicSerialNumberInReg

Sets License serial number in registry.

CancelSetup

Cancels setup.

checkVOB

Checks for VEA.

ClusterSupportUnInstall

Uninstalls cluster support.

CopyVXIO

Copies VXIO.

Create_BUS_ENUM_FAILED

Creates BUS_ENUM_FAILED key.

Create_BUS_ENUM_FAILED_OnInstall

Creates BUS_ENUM_FAILED key.

CreateVPILangKey

Creates VPI language key.

GetSetupLanguage

Gets setup language.

MSCS_VVR_CHK

Checks for VVR and MSCS.

MSCS_VVR_Copyfile

Copies VVR and files when MSCS present.

MSCS_VVR_Deletefile

Deletes VVR files when MSCS present.

RemoveUpgradeRegEntry

Removes Upgrade registry entries.

RenameSysDvcName

Renames system device.

RestoreMachineINF

Restores machine inf file.

rollback_CopyVXIO

Rollback action.

rollback_InstPNP

Rollback aciton.

rollback_InstPNPVxDMP

Rollback action.

rollback_VVR_MSCS_Register

Rollback action.

rollback_VxPnPSvc_Registry

Rollback action.

ServerTask_UnInstall

Server uninstall tasks.

SetOLDVMVERSION

Sets property for OLDVMVERSION.

SetVPItoZero

Sets VPI property to zero.

UninstallMessage

Uninstalls Message.

V_Ca_VM_Features_Check

Checks for VM features.

V_CaClusterServerInstall

Checks for MSCS install.

V_CaDeleteFiles

Deletes unused files

V_CaMarbleCheck

Checks for Marble.

V_CaMarbleInstall

Registers Marble installation.

V_CaRegisterExtensionDLL_CLIENT

Registers client extension.

V_CaSaveMarbleSettings

Saves Marble settings.

V_CaVM525_Check

Checks for 535 existence.

V_CREATE_INF_FILES

Creates inf files.

V_REMOVE_TARGET_DIR

Removes targaret folder.

VValidateOldLicenseKey2xVM

Validates old license key.

VVR_DCOMBridge_Reg

Registers VVR_DCOM_bridge.

VVR_DCOMBridge_UnReg

Unregisters VVRDCOMbridge.

VVR_MSCS_UnRegister

Unregisters MSCS.

VVR_RVG_RSC_Ex_UnReg

Unregisters VVR RVG resource.

VXIO_Registry

Includes vxio required entries.

VxPnPSvc_Registry

Includes VM required registry.

V_CaMarbleUnInstall

Uninstalls Marble

**DIRCA_NEWRETARGETABLEPROPERTY1.4AB1E07A42324427
9405976422D30FC4**

Third-party custom action from Microsoft merge module.

rollback_VXIO_Registry

Rolls back VXIO registry.

TestMsg1

Test Message 1.

TestMsg2

Test Message 2.

TestMsg3

Test Message 3.

C

Type 65 Installshield custom action.

vxmpio.msi

MSI located at ...\\Pkgs\\64\\w2k3\\x64\\VxMPIO.msi

VersionCheck

Checks for prior install of VxMPIO versions.

ValidateDSM_Option

Validates user selected DSMs to install/uninstall.

MPIO_Upgrade

Performs upgrade related tasks.

SetVMDIR

Sets VM install directory.

VPI_Registry_Remove

Removes VPI registry during uninstall.

PostUninstallTasks

Clean up uninstall related tasks.

Instmpio_Uninstall

Uninstalls DSMs.

Instmpio_Uninstall_W2K8

Uninstalls DSMs for W2K8.

VPI_Registry

Creates VPI registries.

VPI_Installed

If VPI is installed, this custom action hides Add/Remove display.

CalnstPNP_Uninstall_vibmaa

Removes old unused DSMs.

CalnstPNP_Uninstall_vhpevagi

Removes old unused DSMs.

CalnstPNP_Uninstall_vhpmsa

Removes old unused DSMs.

Instmpio

Installs DSMs.

Instmpio_W2K8

Installs DSMs for Windows Server 2008.

PostInstallTasks

Removes unnecessary files after install.

vxmpio.msi

MSI located at ...\\Pkgs\\64\\w2k3\\IA64\\VxMPIO.msi

VersionCheck

Checks for prior install of VxMPIO versions.

ValidateDSM_Option

Validates user selected DSMs to install/uninstall.

MPIO_Upgrade

Performs upgrade related tasks.

SetVMDIR

Sets VM install directory.

VPI_Registry_Remove

Removes VPI registry during uninstall.

PostUnInstallTasks

Clean up uninstall related tasks.

Instmpio_Uninstall

Uninstalls DSMs.

Instmpio_Uninstall_W2K8

Uninstalls DSMs for W2K8.

VPI_Registry

Creates VPI registries.

VPI_Installed

If VPI is installed, this custom action hides Add/Remove display.

CalnstPNP_Uninstall_vibmaa

Removes old unused DSMs.

CalnstPNP_Uninstall_vhpevagi

Removes old unused DSMs.

CalnstPNP_Uninstall_vhpmsa

Removes old unused DSMs.

Instmpio

Installs DSMs.

Instmpio_W2K8

Installs DSMs for Windows Server 2008.

PostInstallTasks

Removes unnecessary files after install.

vxmpio.msi

MSI located at ...\\Pkgs\\64\\w2k8\\x64\\VxMPIO.msi

VersionCheck

Checks for prior install of VxMPIO versions.

ValidateDSM_Option

Validates user selected DSMs to install/uninstall.

MPIO_Upgrade

Performs upgrade related tasks.

SetVMDIR

Sets VM install directory.

VPI_Registry_Remove

Removes VPI registry during uninstall.

PostUninstallTasks

Clean up uninstall related tasks.

Instmpio_Uninstall

Uninstalls DSMs.

Instmpio_Uninstall_W2K8

Uninstalls DSMs for W2K8.

VPI_Registry

Creates VPI registries.

VPI_Installed

If VPI is installed, this custom action hides Add/Remove display.

CalnstPNP_Uninstall_vibmaa

Removes old unused DSMs.

CalnstPNP_Uninstall_vhpevagl

Removes old unused DSMs.

CalnstPNP_Uninstall_vhpmsa

Removes old unused DSMs.

Instmpio

Installs DSMs.

Instmpio_W2K8

Installs DSMs for Windows Server 2008.

PostInstallTasks

Removes unnecessary files after install.

vxmpio.msi

MSI located at ...\\Pkgs\\64\\w2k8\\IA64\\VxMPIO.msi

VersionCheck

Checks for prior install of VxMPIO versions.

ValidateDSM_Option

Validates user selected DSMs to install/uninstall.

MPIO_Upgrade

Performs upgrade related tasks.

SetVMDIR

Sets VM install directory.

VPI_Registry_Remove

Removes VPI registry during uninstall.

PostUnInstallTasks

Clean up uninstall related tasks.

Instmpio_Uninstall

Uninstalls DSMs.

Instmpio_Uninstall_W2K8

Uninstalls DSMs for W2K8.

VPI_Registry

Creates VPI registries.

VPI_Installed

If VPI is installed, this custom action hides Add/Remove display.

CalnstPNP_Uninstall_vibmaa

Removes old unused DSMs.

CalnstPNP_Uninstall_vhpevagi

Removes old unused DSMs.

CalnstPNP_Uninstall_vhpmsa

Removes old unused DSMs.

Instmpio

Installs DSMs.

Instmpio_W2K8

Installs DSMs for Windows Server 2008.

PostInstallTasks

Removes unnecessary files after install.

Veritas Authentication Service.msi

MSI located at ...\\Pkg\\64\\common\\VERITAS Authentication Service.msi

Setaddversion.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets the values required for deferred custom action addversion.

addversion.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Adds the version in the registry.

SetAtInstallDir.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets default AT intalldir.

SystemFolder.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Gets the system folder.

Setup.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets up the initial properties required for fresh install.

SetCustomProp.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets the required properties for installation/upgrade by calling appropriate custom action.

SetDefaultInstallDir.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Calls 32 bit custom action for setting install directory.

SetDefaultInstallDir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Calls 64 bit custom action for setting install directory.

Setinstalldir.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets installdir required during uninstall.

SetServiceName.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Changes the service name from VERITAS to Symantec.

BackupProfileDir32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

64 bit backs up 32 bit systemprofile while upgrading.

BackupProfileDir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

32 bit backs up 64 bit systemprofile while upgrading.

BackupSelfProfileDir32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

32 bit install backs up its own systemprofile.

BackupSelfProfileDir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

64 bit install backs up its own systemprofile.

Bak_ARP.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backup add/remove program entries for Rollback.

bakupreg64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backup 64 bit registry while rollback.

ChangePwd.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Changes the domain password after the service is installed.

CheckClean32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 32 bit can be cleanly uninstalled or not.

CheckClean64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 64 bit can be cleanly uninstalled or not.

CheckCleanUninstall.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if either 32/64 can be cleanly uninstalled.

CheckCorrectUp.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if product can be upgraded or not.

CheckIfPossible32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 32 bit can be properly upgraded.

CheckIfPossible64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 64 bit can be properly upgraded.

CheckIsServerInstalled.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if server is installed or not before installing.

CheckPasswordLength.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if the password entered by user matches the criteria.

CheckResetPassword.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Resets the password of the domain administrator.

CheckUninstall32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 32 bit can be uninstalled or not.

CheckUninstall64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 64 bit can be uninstalled or not.

Copy_64bit_systemprofile.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Copies 64 bit systemprfile while 32 bit is getting installed and 64 bit EAT already exists.

Copy_64bit_systemprofile32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Copies 32 bit systemprfile while 64 bit is getting installed and 32 bit EAT already exists.

copyfromtemp.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Copies the data from temp to installdir while rollback/restore.

CreateConfig.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Creates config file for configuration.

deleteprofiledir32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Deletes some files in profiles dire when 32 bit package is uninstalled.

deleteprofiledir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Deletes some files in profiles dire when 64 bit package is uninstalled.

doconfig.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Does the configuration.

DoRollback_bak.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backsup the binaries for rollback.

DoRollback_restore.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets the properties required for restore and calls appropriate Custom actions.

Rollback_restore32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restore 32 bit package.

Rollback_restore64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restore 64 bit package.

editRunvssatguiBat.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Edits runvssatgui.bat after installation with proper install path.

Folder_Delete.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Deletes some folders created by programs during uninstallation.

GetProductCode.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Gets the product code of the installed product during Rollback/Restore.

Installer_bak32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backups 32 bit installer information from registry.

Installer_bak64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backups 64 bit installer information from registry.

Installer_res32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores 32 bit installer information to the registry.

Installer_res64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores 64 bit installer information to the registry.

ProfileDirCleanUp.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Calls proper clean up routine for 32/64.

ReadProfileDir32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Reads 32 bit profile directory from registry.

ReadProfileDir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Reads 64 bit profile directory from registry.

reg_change.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Changes registry with proper values of service.

Reg_Delete.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Extra clean up for uninstallation.

regdelete_64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Extra clean up for uninstallation for 64 bit.

Res_ARP.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores ARP entries after restore.

restorereg64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores 64 bit ARP entries after restore.

Rollback_bak_32_64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Calls appropriate 32/64 bit Custom actions.

Rollback_bak32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Rollbacks 32 bit packages.

Rollback_bak64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Rollbacks 64 bit packages.

upgrade_bak.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backups data during upgrade.

upgrade_res.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores backed data after upgrade.

UpGradePrereq.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Prevents downgrade in minor upgrades.

vrtsat_configure

Runs vssconfig.exe.

cl2serverup

Sets the properties for upgrade from client to client+server.

createlhc

Create VRTSat_lhc directory for home less users.

GenerateRootDiscovery

Generate Root Discovery list.

Install64amdReg

On AMD64 export registry.

Install64Reg

On IA64 export registry.

makeshort.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Make shortcut for AT.

removeshort.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Remove shortcut during uninstallation.

StopDwongrade

Stop downgrade.

SetProcArch.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets the processor arch needed to stop downgrade custom action.

SysComponentRemove.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Used to remove upgrade entry from 4.2 exe to msi.

SetATMSMTargetPath.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets MSM target Path.

backup_reg32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

This is to backup/restore 32 bit hive during 64 bit upgrade.

createconfigfile

Creates a config file required for setup.

Veritas Authentication Service.msi

MSI located at ...\\Pkgs\\64\\w2k3\\IA64\\VERITAS Authentication Service.msi

Setaddversion.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets the values required for deferred custom action addversion.

addversion.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Adds the version in the registry.

SetAtInstallDir.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets default AT intalldir.

SystemFolder.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Gets the system folder.

Setup.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets up the initial properties required for fresh install.

SetCustomProp.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets the required properties for installation/upgrade by calling appropriate custom action.

SetDefaultInstallDir.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Calls 32 bit custom action for setting install directory.

SetDefaultInstallDir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Calls 64 bit custom action for setting install directory.

Setinstalldir.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets installdir required during uninstall.

SetServiceName.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Changes the service name from VERITAS to Symantec.

BackupProfileDir32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

64 bit backs up 32 bit systemprofile while upgrading.

BackupProfileDir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

32 bit backs up 64 bit systemprofile while upgrading.

BackupSelfProfileDir32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

32 bit install backs up its own systemprofile.

BackupSelfProfileDir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

64 bit install backs up its own systemprofile.

Bak_ARP.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backup add/remove program entries for Rollback.

bakupreg64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backup 64 bit registry while rollback.

ChangePwd.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Changes the domain password after the service is installed.

CheckClean32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 32 bit can be cleanly uninstalled or not.

CheckClean64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 64 bit can be cleanly uninstalled or not.

CheckCleanUninstall.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if either 32/64 can be cleanly uninstalled.

CheckCorrectUp.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if product can be upgraded or not.

CheckIfPossible32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 32 bit can be properly upgraded.

CheckIfPossible64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 64 bit can be properly upgraded.

CheckIsServerInstalled.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if server is installed or not before installing.

CheckPasswordLength.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if the password entered by user matches the criteria.

CheckResetPassword.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Resets the password of the domain administrator.

CheckUninstall32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 32 bit can be uninstalled or not.

CheckUninstall64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 64 bit can be uninstalled or not.

Copy_64bit_systemprofile.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Copies 64 bit systemprfile while 32 bit is getting installed and 64 bit EAT already exists.

Copy_64bit_systemprofile32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Copies 32 bit systemprfile while 64 bit is getting installed and 32 bit EAT already exists.

copyfromtemp.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Copies the data from temp to installdir while rollback/restore.

CreateConfig.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Creates config file for configuration.

deleteprofiledir32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Deletes some files in profiles dire when 32 bit package is uninstalled.

deleteprofiledir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Deletes some files in profiles dire when 64 bit package is uninstalled.

doconfig.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Does the configuration.

DoRollback_bak.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backsup the binaries for rollback.

DoRollback_restore.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets the properties required for restore and calls appropriate Custom actions.

Rollback_restore32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restore 32 bit package.

Rollback_restore64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restore 64 bit package.

editRunvssatguiBat.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Edits runvssatgui.bat after installation with proper install path.

Folder_Delete.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Deletes some folders created by programs during uninstallation.

GetProductCode.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Gets the product code of the installed product during Rollback/Restore.

Installer_bak32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backups 32 bit installer information from registry.

Installer_bak64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backups 64 bit installer information from registry.

Installer_res32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores 32 bit installer information to the registry.

Installer_res64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores 64 bit installer information to the registry.

ProfileDirCleanUp.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Calls proper clean up routine for 32/64.

ReadProfileDir32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Reads 32 bit profile directory from registry.

ReadProfileDir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Reads 64 bit profile directory from registry.

reg_change.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Changes registry with proper values of service.

Reg_Delete.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Extra clean up for uninstallation.

regdelete_64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Extra clean up for uninstallation for 64 bit.

Res_ARP.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores ARP entries after restore.

restorereg64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores 64 bit ARP entries after restore.

Rollback_bak_32_64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Calls appropriate 32/64 bit Custom actions.

Rollback_bak32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Rollbacks 32 bit packages.

Rollback_bak64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Rollbacks 64 bit packages.

upgrade_bak.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backups data during upgrade.

upgrade_res.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores backed data after upgrade.

UpGradePrereq.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Prevents downgrade in minor upgrades.

vrtsat_configure

Runs vssconfig.exe.

cl2serverup

Sets the properties for upgrade from client to client+server.

createlhc

Create VRTSat_lhc directory for home less users.

GenerateRootDiscovery

Generate Root Discovery list.

Install64amdReg

On AMD64 export registry.

Install64Reg

On IA64 export registry.

makeshort.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Make shortcut for AT.

removeshort.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Remove shortcut during uninstallation.

StopDwongrade

Stop downgrade.

SetProcArch.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets the processor arch needed to stop downgrade custom action.

SysComponentRemove.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Used to remove upgrade entry from 4.2 exe to msi.

SetATMSMTargetPath.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets MSM target Path.

backup_reg32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

This is to backup/restore 32 bit hive during 64 bit upgrade.

createconfigfile

Creates a config file required for setup.

Veritas Authentication Service Client.msi

MSI located at ...\\Pkgs\\64\\w2k3\\IA64\\VERITAS Authentication Service Client.msi

Setaddversion.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets the values required for deferred custom action addversion.

addversion.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Adds the version in the registry.

SetAtInstallDir.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets default AT intalldir.

SystemFolder.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Gets the system folder.

Setup.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets up the initial properties required for fresh install.

SetCustomProp.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets the required properties for installation/upgrade by calling appropriate custom action.

SetDefaultInstallDir.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Calls 32 bit custom action for setting install directory.

SetDefaultInstallDir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Calls 64 bit custom action for setting install directory.

Setinstalldir.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets installdir required during uninstall.

SetServiceName.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Changes the service name from VERITAS to Symantec.

BackupProfileDir32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

64 bit backs up 32 bit systemprofile while upgrading.

BackupProfileDir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

32 bit backs up 64 bit systemprofile while upgrading.

BackupSelfProfileDir32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

32 bit install backs up its own systemprofile.

BackupSelfProfileDir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

64 bit install backs up its own systemprofile.

Bak_ARP.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backup add/remove program entries for Rollback.

bakupreg64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backup 64 bit registry while rollback.

ChangePwd.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Changes the domain password after the service is installed.

CheckClean32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 32 bit can be cleanly uninstalled or not.

CheckClean64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 64 bit can be cleanly uninstalled or not.

CheckCleanUninstall.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if either 32/64 can be cleanly uninstalled.

CheckCorrectUp.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if product can be upgraded or not.

CheckIfPossible32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 32 bit can be properly upgraded.

CheckIfPossible64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 64 bit can be properly upgraded.

CheckIsServerInstalled.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if server is installed or not before installing.

CheckPasswordLength.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if the password entered by user matches the criteria.

CheckResetPassword.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Resets the password of the domain administrator.

CheckUninstall32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 32 bit can be uninstalled or not.

CheckUninstall64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 64 bit can be uninstalled or not.

Copy_64bit_systemprofile.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Copies 64 bit systemprfile while 32 bit is getting installed and 64 bit EAT already exists.

Copy_64bit_systemprofile32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Copies 32 bit systemprfile while 64 bit is getting installed and 32 bit EAT already exists.

copyfromtemp.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Copies the data from temp to installdir while rollback/restore.

CreateConfig.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Creates config file for configuration.

deleteprofiledir32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Deletes some files in profiles dire when 32 bit package is uninstalled.

deleteprofiledir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Deletes some files in profiles dire when 64 bit package is uninstalled.

doconfig.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Does the configuration.

DoRollback_bak.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backsup the binaries for rollback.

DoRollback_restore.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets the properties required for restore and calls appropriate Custom actions.

Rollback_restore32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restore 32 bit package.

Rollback_restore64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restore 64 bit package.

editRunvssatguiBat.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Edits runvssatgui.bat after installation with proper install path.

Folder_Delete.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Deletes some folders created by programs during uninstallation.

GetProductCode.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Gets the product code of the installed product during Rollback/Restore.

Installer_bak32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backups 32 bit installer information from registry.

Installer_bak64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backups 64 bit installer information from registry.

Installer_res32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores 32 bit installer information to the registry.

Installer_res64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores 64 bit installer information to the registry.

ProfileDirCleanUp.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Calls proper clean up routine for 32/64.

ReadProfileDir32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Reads 32 bit profile directory from registry.

ReadProfileDir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Reads 64 bit profile directory from registry.

reg_change.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Changes registry with proper values of service.

Reg_Delete.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Extra clean up for uninstallation.

regdelete_64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Extra clean up for uninstallation for 64 bit.

Res_ARP.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores ARP entries after restore.

restorereg64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores 64 bit ARP entries after restore.

Rollback_bak_32_64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Calls appropriate 32/64 bit Custom actions.

Rollback_bak32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Rollbacks 32 bit packages.

Rollback_bak64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Rollbacks 64 bit packages.

upgrade_bak.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backups data during upgrade.

upgrade_res.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores backed data after upgrade.

UpGradePrereq.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Prevents downgrade in minor upgrades.

vrtsat_configure

Runs vssconfig.exe.

cl2serverup

Sets the properties for upgrade from client to client+server.

createlhc

Create VRTSat_lhc directory for home less users.

GenerateRootDiscovery

Generate Root Discovery list.

Install64amdReg

On AMD64 export registry.

Install64Reg

On IA64 export registry.

makeshort.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Make shortcut for AT.

removeshort.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Remove shortcut during uninstallation.

StopDwongrade

Stop downgrade.

SetProcArch.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets the processor arch needed to stop downgrade custom action.

SysComponentRemove.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Used to remove upgrade entry from 4.2 exe to msi.

SetATMSMTargetPath.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets MSM target Path.

backup_reg32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

This is to backup/restore 32 bit hive during 64 bit upgrade.

createconfigfile

Creates a config file required for setup.

Veritas Authentication Service Client.msi

MSI located at ...\\Pkgs\\64\\w2k3\\x64\\VERITAS Authentication Service Client.msi

Setaddversion.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets the values required for deferred custom action addversion.

addversion.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Adds the version in the registry.

SetAtInstallDir.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets default AT intalldir.

SystemFolder.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Gets the system folder.

Setup.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets up the initial properties required for fresh install.

SetCustomProp.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets the required properties for installation/upgrade by calling appropriate custom action.

SetDefaultInstallDir.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Calls 32 bit custom action for setting install directory.

SetDefaultInstallDir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Calls 64 bit custom action for setting install directory.

Setinstalldir.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets installdir required during uninstall.

SetServiceName.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Changes the service name from VERITAS to Symantec.

BackupProfileDir32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

64 bit backs up 32 bit systemprofile while upgrading.

BackupProfileDir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

32 bit backs up 64 bit systemprofile while upgrading.

BackupSelfProfileDir32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

32 bit install backs up its own systemprofile.

BackupSelfProfileDir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

64 bit install backs up its own systemprofile.

Bak_ARP.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backup add/remove program entries for Rollback.

bakupreg64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backup 64 bit registry while rollback.

ChangePwd.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Changes the domain password after the service is installed.

CheckClean32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 32 bit can be cleanly uninstalled or not.

CheckClean64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 64 bit can be cleanly uninstalled or not.

CheckCleanUninstall.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if either 32/64 can be cleanly uninstalled.

CheckCorrectUp.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if product can be upgraded or not.

CheckIfPossible32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 32 bit can be properly upgraded.

CheckIfPossible64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 64 bit can be properly upgraded.

CheckIsServerInstalled.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if server is installed or not before installing.

CheckPasswordLength.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if the password entered by user matches the criteria.

CheckResetPassword.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Resets the password of the domain administrator.

CheckUninstall32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 32 bit can be uninstalled or not.

CheckUninstall64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Checks if 64 bit can be uninstalled or not.

Copy_64bit_systemprofile.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Copies 64 bit systemprfile while 32 bit is getting installed and 64 bit EAT already exists.

Copy_64bit_systemprofile32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Copies 32 bit systemprfile while 64 bit is getting installed and 32 bit EAT already exists.

copyfromtemp.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Copies the data from temp to installdir while rollback/restore.

CreateConfig.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Creates config file for configuration.

deleteprofiledir32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Deletes some files in profiles dire when 32 bit package is uninstalled.

deleteprofiledir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Deletes some files in profiles dire when 64 bit package is uninstalled.

doconfig.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Does the configuration.

DoRollback_bak.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backsup the binaries for rollback.

DoRollback_restore.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets the properties required for restore and calls appropriate Custom actions.

Rollback_restore32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restore 32 bit package.

Rollback_restore64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restore 64 bit package.

editRunvssatguiBat.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Edits runvssatgui.bat after installation with proper install path.

Folder_Delete.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Deletes some folders created by programs during uninstallation.

GetProductCode.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Gets the product code of the installed product during Rollback/Restore.

Installer_bak32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backups 32 bit installer information from registry.

Installer_bak64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backups 64 bit installer information from registry.

Installer_res32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores 32 bit installer information to the registry.

Installer_res64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores 64 bit installer information to the registry.

ProfileDirCleanUp.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Calls proper clean up routine for 32/64.

ReadProfileDir32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Reads 32 bit profile directory from registry.

ReadProfileDir64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Reads 64 bit profile directory from registry.

reg_change.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Changes registry with proper values of service.

Reg_Delete.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Extra clean up for uninstallation.

regdelete_64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Extra clean up for uninstallation for 64 bit.

Res_ARP.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores ARP entries after restore.

restorereg64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores 64 bit ARP entries after restore.

Rollback_bak_32_64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Calls appropriate 32/64 bit Custom actions.

Rollback_bak32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Rollbacks 32 bit packages.

Rollback_bak64.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Rollbacks 64 bit packages.

upgrade_bak.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Backups data during upgrade.

upgrade_res.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Restores backed data after upgrade.

UpGradePrereq.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Prevents downgrade in minor upgrades.

vrtsat_configure

Runs vssconfig.exe.

cl2serverup

Sets the properties for upgrade from client to client+server.

createlhc

Create VRTSat_lhc directory for home less users.

GenerateRootDiscovery

Generate Root Discovery list.

Install64amdReg

On AMD64 export registry.

Install64Reg

On IA64 export registry.

makeshort.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Make shortcut for AT.

removeshort.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Remove shortcut during uninstallation.

StopDwongrade

Stop downgrade.

SetProcArch.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets the processor arch needed to stop downgrade custom action.

SysComponentRemove.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Used to remove upgrade entry from 4.2 exe to msi.

SetATMSMTargetPath.FEE190A6_8D92_4E49_AB5E_67715BF6527F

Sets MSM target Path.

backup_reg32.FEE190A6_8D92_4E49_AB5E_67715BF6527F

This is to backup/restore 32 bit hive during 64 bit upgrade.

createconfigfile

Creates a config file required for setup.

Veritas Authentication Service Client.msi

MSI located at ...\\pkgs\\64\\common\\veritas authentication service client.msi

Setaddversion

Sets the values required for deferred custom action addversion.

addversion

Adds the version in the registry.

SetAtInstallDir

Sets default AT intalldir.

Setup

Sets up the initial properties required for fresh install.

SetCustomProp

Sets the required properties for installation/upgrade by calling the appropriate custom action.

SetDefaultInstallDir

Calls 32 bit custom action for setting install directory.

SetDefaultInstallDir64

Calls 64 bit custom action for setting install directory.

Setinstalldir

Sets installdir required during uninstall.

SetServiceName

Changes the service name from VERITAS to Symantec.

BackupProfileDir32

64 bit backs up 32 bit systemprofile while upgrading.

BackupProfileDir64

32 bit backs up 64 bit systemprofile while upgrading.

BackupSelfProfileDir32

32 bit install backs up its own systemprofile.

BackupSelfProfileDir64

64 bit install backs up its own systemprofile.

Bak_ARP

Backup add/remove program entries for rollback.

bakupreg64

Backup 64 bit registry while rollback.

ChangePwd

Changes the domain password after the service is installed.

CheckClean32

Checks if 32 bit can be cleanly uninstalled or not.

CheckClean64

Checks if 64 bit can be cleanly uninstalled or not.

CheckCleanUninstall

Checks if either 32/64 can be cleanly uninstalled.

CheckCorrectUp

Checks if product can be upgraded or not.

CheckIfPossible32

Checks if 32 bit can be properly upgraded.

CheckIfPossible64

Checks if 64 bit can be properly upgraded.

CheckIsServerInstalled

Checks if server is installed or not before installing.

CheckPasswordLength

Checks if the password entered by user matches the criteria.

CheckResetPassword

Resets the password of the domain administrator.

CheckUninstall32

Checks if 32 bit can be uninstalled or not.

CheckUninstall64

Checks if 64 bit can be uninstalled or not.

Copy_64bit_systemprofile

Copies 64 bit systemprfile while 32 bit is getting installed and 64 bit EAT already exists.

Copy_64bit_systemprofile32

Copies 32 bit systemprfile while 64 bit is getting installed and 32 bit EAT already exists.

copyfromtemp

Copies the data from temp to installdir during rollback/restore.

CreateConfig

Creates config file for configuration.

deleteprofiledir32

Deletes some files in profiles directory when 32 bit package is uninstalled.

deleteprofiledir64

Deletes some files in profiles directory when 64 bit package is uninstalled.

doconfig

Does the configuration.

DoRollback_bak

Backs up the binaries for rollback.

DoRollback_restore

Sets the properties required for restore and calls the appropriate custom actions.

Rollback_restore32

Restores 32 bit package.

Rollback_restore64

Restores 64 bit package.

editRunvssatguiBat

Edits runvssatgui.bat after installation with proper install path.

Folder_Delete

Deletes some folders created by programs during uninstallation.

GetProductCode

Gets the product code of the installed product during rollback/restore.

Installer_bak32

Back ups 32 bit installer information from registry.

Installer_bak64

Back ups 64 bit installer information from registry.

Installer_res32

Restores 32 bit installer information to the registry.

Installer_res64

Restores 64 bit installer information to the registry.

ProfileDirCleanUp

Calls proper clean up routine for 32/64.

ReadProfileDir32

Reads 32 bit profile directory from registry.

ReadProfileDir64

Reads 64 bit profile directory from registry.

reg_change

Changes registry with proper values of service.

Reg_Delete

Extra clean up for uninstallation.

regdelete_64

Extra clean up for uninstallation for 64 bit.

Res_ARP

Restores ARP entries after restore.

restorereg64

Restores 64 bit ARP entries after restore.

Rollback_bak_32_64

Calls appropriate 32/64 bit custom actions.

Rollback_bak32

Rollback 32 bit packages.

Rollback_bak64

Rollback 64 bit packages.

upgrade_bak

Backs up data during upgrade.

upgrade_res

Restores backed up data after upgrade.

UpGradePrereq

Prevents downgrade in minor upgrades.

vrtsat_configure

Runs vssconfig.exe.

cl2serverup

Sets the properties for upgrade from client to client+server.

createlhc

Creates VRTSat_lhc directory for homeless users.

GenerateRootDiscovery

Generates Root Discovery list.

Install64amdReg

On AMD64, exports registry.

Install64Reg

On IA64, exports registry.

makeshort

Makes shortcut for AT.

removeshort

Removes shortcut during uninstallation.

StopDwongrade

Stops downgrade.

SetProcArch

Sets the processor arch needed to stop downgrade custom action.

SysComponentRemove

Used to remove upgrade entry from 4.2 exe to msi.

SetATMSMTargetPath

Sets MSM target Path.

backup_reg32

Backs up 3 bit registry in a 64 bit package upgrade.

Netfx.msi

Netfx.msi is a third-party msi file. No information about custom actions is available.

