Veritas InfoScale™ 7.0 What's new in this release - AIX



Veritas InfoScale 7.0 What's new in this release

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Symantec's support offerings include the following:

- A range of support options that give you the flexibility to select the right amount of service for any size organization
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Before contacting Technical Support, make sure you have satisfied the system requirements that are listed in your product documentation. Also, you should be at the computer on which the problem occurred, in case it is necessary to replicate the problem.

When you contact Technical Support, please have the following information available:

- Product release level
- Hardware information

- Available memory, disk space, and NIC information
- Operating system
- Version and patch level
- Network topology
- Router, gateway, and IP address information
- Problem description:
 - Error messages and log files
 - Troubleshooting that was performed before contacting Symantec
 - Recent software configuration changes and network changes

Licensing and registration

If your Symantec product requires registration or a license key, access our technical support Web page at the following URL:

www.symantec.com/business/support/

Customer service

Customer service information is available at the following URL:

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- Product registration updates, such as address or name changes
- General product information (features, language availability, local dealers)
- Latest information about product updates and upgrades
- Information about upgrade assurance and support contracts
- Information about the Symantec Buying Programs
- Advice about Symantec's technical support options
- Nontechnical presales questions
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Support agreement resources

If you want to contact us regarding an existing support agreement, please contact the support agreement administration team for your region as follows:

Asia-Pacific and Japan customercare_apj@symantec.com

Europe, Middle-East, and Africa semea@symantec.com

North America and Latin America supportsolutions@symantec.com

Documentation

Product guides are available on the media in PDF format. Make sure that you are using the current version of the documentation. The document version appears on page 2 of each guide. The latest product documentation is available on the Symantec website.

https://sort.symantec.com/documents

Your feedback on product documentation is important to us. Send suggestions for improvements and reports on errors or omissions. Include the title and document version (located on the second page), and chapter and section titles of the text on which you are reporting. Send feedback to:

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For information regarding the latest HOWTO articles, documentation updates, or to ask a question regarding product documentation, visit the Storage and Clustering Documentation forum on Symantec Connect.

https://www-secure.symantec.com/connect/storage-management/forums/storage-and-clustering-documentation

About Symantec Connect

Symantec Connect is the peer-to-peer technical community site for Symantec's enterprise customers. Participants can connect and share information with other product users, including creating forum posts, articles, videos, downloads, blogs and suggesting ideas, as well as interact with Symantec product teams and Technical Support. Content is rated by the community, and members receive reward points for their contributions.

http://www.symantec.com/connect/storage-management

What's new in this release

This document includes the following topics:

- About this document
- About the release
- About the Veritas InfoScale product suite
- Mapping of Storage Foundation High Availability (SFHA) offerings to the new InfoScale Family
- Entitlement mapping for upgrades from Storage Foundation High Availability (SFHA) offerings to InfoScale
- Licensing changes for InfoScale
- Changes related to installation and upgrade
- Changes related to support for SmartIO caching on SSD devices exported by FSS
- Changes related to ApplicationHA
- Changes related to documentation
- Platforms supported
- Not supported in this release

About this document

The "What's new in this release" document provides high-level information on the supported platforms and changes introduced in the release.

About the release

Symantec has restructured its Storage Foundation High Availability (SFHA) product suite so that it is easier to work with and easier to sell. The new product suite is named Veritas InfoScale. Symantec is moving to replace the 19 different products offerings with only four new products.

The four products are as following:

- Veritas InfoScale Foundation
- Veritas InfoScale Storage
- Veritas InfoScale Availability
- Veritas InfoScale Enterprise

Not only are the products being consolidated, the associated pricing and pricing meters are also being simplified. In particular, Symantec is moving away from Symantec Performance Value Units (SPVUs).

These significant changes are intended to:

- Simplify the customer buying experience
- Improve customer life time value
- Reduce complexity for sales
- Enable account penetration through an attractive entry-level offering

About the Veritas InfoScale product suite

The Veritas InfoScale product suite addresses enterprise IT service continuity needs. It draws on Veritas' long heritage of world-class availability and storage management solutions to help IT teams in realizing ever more reliable operations and better protected information across their physical, virtual, and cloud infrastructures.

It provides resiliency and software-defined storage for critical services across the datacenter infrastructure. It realizes better Return on Investment (ROI) and unlocks high performance by integrating next-generation storage technologies.

The solution provides high availability and disaster recovery for complex multi-tiered applications across any distance.

Management operations for Veritas InfoScale are enabled through a single, easy-to-use, web-based graphical interface, Veritas InfoScale Operations Manager.

The table below gives an overview of the four products in the Veritas InfoScale product suite.

Table 1-1 Overview of the four products in the Veritas InfoScale product

Product name	Overview
Veritas InfoScale Foundation	InfoScale Foundation combines the industry-leading File System and Volume Manager technology, and delivers a complete solution for heterogeneous online storage management.
	It also increases storage utilization and enhances storage I/O path availability.
Veritas InfoScale Storage	Veritas InfoScale Storage enables organizations to provision and manage storage independently of hardware types or locations.
	InfoScale Storage delivers predictable Quality-of-Service by identifying and optimizing critical workloads.
Veritas InfoScale Availability	Veritas InfoScale Availability helps keep organizations' information available and critical business services up and running with a robust software-defined approach.
Veritas InfoScale Enterprise	Veritas InfoScale Enterprise addresses enterprise IT service continuity needs. It provides resiliency and software defined storage for critical services across your datacenter infrastructure.
	The solution provides high availability and disaster recovery for complex multi-tiered applications across any distance in physical and virtual environments.

Mapping of Storage Foundation High Availability (SFHA) offerings to the new InfoScale Family

The table below shows how SFHA products map to the new InfoScale products.

Table 1-2 Shows how the SFHA products map to the new InfoScale products

Earlier SFHA offerings	InfoScale Foundation	InfoScale Storage	InfoScale Availability	InfoScale Enterprise
Cluster File System		1		1
Cluster Server			/	1
Dynamic Multi-Pathing	1	1		1
Dynamic Multi-Pathing for VMware	/	/		/
Storage Foundation Basic	/			
Storage Foundation		1		1
Storage Foundation for Oracle RAC				✓
Storage Foundation for Sybase ASE CE				✓
Storage Foundation High Availability				/

Entitlement mapping for upgrades from Storage Foundation High Availability (SFHA) offerings to **InfoScale**

If a user upgrades from SFHA offerings to InfoScale, the table below would help show how the SFHA component entitlement map to InfoScale entitlements.

Table 1-3 Shows how the SFHA component entitlements map to InfoScale entitlements

Earlier SFHA offerings	InfoScale Foundation	InfoScale Storage	InfoScale Availability	InfoScale Enterprise
Storage Foundation Basic	✓			
Storage Foundation		1		
Dynamic Multi-Pathing	1			
Dynamic Multi-Pathing for VMware	✓			
Cluster Server and Cluster Server HA/DR			✓	
Storage Foundation Enterprise CFS HA				V
Storage Foundation for Oracle RAC				✓
Storage Foundation for Sybase ASE CE				✓

Licensing changes for InfoScale

The following sections describe the licensing changes in InfoScale:

InfoScale Product keys

There are four new license keys that relate to the new InfoScale products.

The vxlicinstupgrade utility

If you use the following platforms: AIX, Solaris or Linux, you can license your product using the installer script. If you registered keys manually at the command line, using the vxlicinst binary, you need to use the vxlicinstupgrade binary, but for the following two circumstances:

- Upgrading from 6.0 or later
- Adding a new license when you transition a smaller product to a larger product

For more info see Veritas InfoScale Release Notes.

Changes related to installation and upgrade

The following changes are introduced to the installation and upgrading of 7.0 VCS:

In 7.0, the following new products are supported:

Veritas InfoScale Foundation

Veritas InfoScale Storage

Veritas InfoScale Availability

Veritas InfoScale Enterprise

The following old products are regarded as components and are converted to new products during the upgrade:

Symantec Storage Foundation (SF)

Symantec Cluster Server (VCS)

Symantec Storage Foundation and High Availability (SFHA)

Symantec Storage Foundation Cluster File System (SFCFS)

Symantec Storage Foundation Cluster File System and High Availability (SFCFSHA)

Symantec Storage Foundation for Oracle RAC (SF Oracle RAC)

The following old products are now part of the SF component and not offered as separate components.

Symantec Dynamic Multi-Pathing (DMP) standalone

Veritas Volume Manager (VxVM)

Veritas File System (VxFS)

For more information,

All packages are installed at the time of installation irrespective of the product. Also, the installation of packages is no longer categorized as recommended. minimum or all.

The installation script installer installs the packages. Component installation scripts, such as installvcs, are no longer supported.

- The install prod><version> script, for example, installsf70 is no longer available under the /opt/VRTS/install/ directory after an installation or upgrade.
- Installation of two products is not supported, Veritas InfoScale Enterprise will be installed to include Veritas InfoScale Storage and Veritas InfoScale Availability on all the systems.

For more information,

For 7.0, the new release image file names are as follows:

```
Veritas InfoScale 7.0 AIX.tar.gz
Veritas InfoScale 7.0 AIX.iso
```

To install the product for your platform, you can either expand the .tar.qz or .zip file or mount the .iso file. Note that the content of the .iso file and archive files

To mount the .iso file on your platform, See "Mounting the ISO image" on page 12.

Mounting the ISO image

An ISO file is a disc image that must be mounted to a virtual drive for use. You must have superuser (root) privileges to mount the Veritas InfoScale ISO image.

To mount the ISO image

are identical.

- Log in as superuser on a system where you want to install Veritas InfoScale.
- Create a loopback device to which you can bind the ISO image file:

```
# mkdev -c loopback -s node -t loopback
loop0 Available
```

Bind the ISO image to the loopback device and mount the device:

```
# loopmount -i <ISO image path> -1 loop0 \
-o "-V cdrfs -o ro" -m /mnt
```

Where </SO image path> is the complete path to the ISO image

Changes related to support for SmartIO caching on SSD devices exported by FSS

For the VxVM and VxFS features in Veritas InfoScale Foundation, Veritas InfoScale Storage and Veritas InfoScale Enterprise products, SmartIO supports the use of SSD devices exported by FSS to provide caching services for applications running on VxVM volumes and VxFS file system. In this scenario, Flexible Storage Sharing (FSS) exports SSDs from nodes that have a local SSD. FSS then creates a pool of the exported SSDs in the cluster. From this shared pool, a cache area is created for those nodes in the cluster that do not have local SSDs. Each cache area is accessible only to that particular node for which it is created. The cache area can be a VxVM cache area or a VxFS cache area. The cache areas can be enabled to support warm or persistent caching across reboots.

For more information, see Veritas InfoScale Solutions 7.0 SmartIO for Solid-State Drives Solutions Guide.

Changes related to ApplicationHA

ApplicationHA is a standalone product and is not included in Veritas InfoScale product suite. You can use any earlier version.

Changes related to documentation

The following changes have been introduced to the documents in 7.0:

- The look-and-feel of the documents reflect the new Veritas brand.
- The release introduces a common Release Notes and Installation Guide for the Veritas InfoScale products suite.
- This release introduces configuration and upgrade guides for each Veritas InfoScale component.
- Symantec[™] Dynamic Multi-Pathing Installation Guide is deprecated. Related information is now available in the Storage Foundation Configuration and Upgrade Guide.
- The software image has an updated document directory structure to reflect the product changes.
- The documents that were titled Storage Foundation and High Availability Solutions are renamed to Veritas Infoscale. The file names for these documents are changed as well.

For more information see Veritas InfoScale™ 7.0 Release Notes.

Platforms supported

The release supports Oracle Solaris 11 x64 on both physical and virtual environments.

For a detailed info of platforms supported see Veritas InfoScale 7.0 Release Notes.

Not supported in this release

The following features are not supported in this release but they may be supported in a future release:

- Rolling Upgrade and Phased Upgrade
- Deployment Server
- -makeresponsefile option for installer

Note: You can use the response file that is created by operating the installer.

The following features will not be supported by the Veritas InfoScale products:

- Web-based installation
- Oracle RAC 10g Release 2 is not supported in Storage Foundation for Oracle RAC.