

# HP StorageWorks

## Tru64 UNIX connectivity 4.0A for the 3000/5000 Enterprise Virtual Array release notes

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Tru64 UNIX connectivity 4.0A for the 3000/5000 Enterprise Virtual Array release notes

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## Release notes information

These release notes include the following topics:

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## Intended audience

This document is intended for:

- Customers who purchased the HP StorageWorks 3000/5000 Enterprise Virtual Array (EVA3000/5000) to use with the Tru64 UNIX operating system
- HP customer service personnel responsible for installing and maintaining devices connected to the EVA3000/5000 storage system

## Accessing future product updates

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

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

## New features

This release includes the following new features:

- Support is provided for Virtual Controller Software (VCS) 4.001.

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### NOTE:

You must have VCS 3.028 installed before upgrading to VCS 4.001. HP recommends that you do a full system backup before an HP service representative performs the migrating procedure.

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- Support is provided for Active/Active failover.
- Support is provided for single-path mode.
- Support is provided for Active/Passive to Active/Active data migration.
- The same host bus adapter (HBA) can be used for Active/Passive and Active/Active configurations.

- Support is provided for booting from a storage area network (SAN).
- The internal identification of the EVA3000 controller is HSV101, and the internal identification of the EVA5000 controller is HSV111. The HSV101 and HSV111 identification is internal to the VCS code only, the bezel indicates EVA3000 (HSV100) or EVA5000 (HSV110).

## VCS 3.028 to VCS 4.001 migration

The Active/Active failover feature in VCS 4.001 impacts host configurations. Contact your HP service representative to configure your system and perform the migration procedure.

## EVA storage system

These release notes contain the latest product information for operating the EVA3000/5000 on a Tru64 UNIX system.

## EVA documentation

A complete library of EVA and related documentation is available on the following HP web sites:

<http://www.hp.com/go/eva5000>

<http://www.hp.com/go/eva3000>

## Product support information

The latest product support information and downloads for storage products are available on the HP storage web site:

<http://h18006.www1.hp.com/storage/index.html>

## Supported configurations

Supported configurations are described in the EVA QuickSpecs, available on the following HP web sites:

<http://h18006.www1.hp.com/products/storageworks/eva3000/specifications.html>

<http://h18006.www1.hp.com/products/storageworks/enterprise/index.html>

## EVA compatibility

This section lists the minimum-level operating system specifications at the time of this release. Some component versions may change due to revision. The latest information is available on the HP storage web site: <http://h18006.www1.hp.com/storage/index.html>.

## Operating system support

Table 1 lists the operating system specifications.

**Table 1 Operating system specifications**

Tru64 UNIX version (minimum)
5.1B-2

## FCA support

Table 2 lists the supported Fibre Channel adapters (FCAs) and the required firmware versions.

**Table 2 FCA support**

FCA	Driver	Adapter firmware version (minimum)	Adapter firmware version (recommended)
HP StorageWorks DS-KGPSA-CA 1Gb, 64-bit/33MHz PCI	Native	3.92a2	3.92a2
HP StorageWorks FCA2354 2Gb, 64-bit/66MHz PCI PN DS-KGPSA-DA	Native	3.92a2	3.92a2
HP StorageWorks FCA2384 2Gb, 64-bit/133MHz PCI-X PN DS-KGPSA-EA	Native	1.90a4	1.91x1
HP StorageWorks FCA2684 2Gb, 64-bit/133MHz PCI-X PN DS-A5132-AA	Native	1.90a4	1.91a1
HP StorageWorks FCA2684DC 2Gb, 64-bit/133MHz PCI-X Dual PN DS-A5134-AA	Native	1.90a4	1.91a1

## Switch support

This release supports the Fibre Channel (FC) switches and firmware versions listed in the *HP StorageWorks SAN design reference guide*, which you can download from the HP StorageWorks web site:

<http://h18004.www1.hp.com/products/storageworks/san/documentation.html>



### NOTE:

HP recommends that you *not* mix switch firmware versions in your SAN. It is a best practice to uniformly upgrade all switches in the SAN.

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## Alpha server support

Table 3 lists the EVA-compatible Alpha servers.

**Table 3 EVA-compatible Alpha servers**

Alpha server	DS-KGPSA-CA support	DS-KGPSA-DA support	DS-KGPSA-EA support	DS-A5132-AA support	DS-A5134-AA support
AS800	Yes	No	No	No	No
AS1200	Yes	No	No	No	No
AS4000	Yes	No	No	No	No
AS4100	Yes	No	No	No	No
AS8200	Yes	No	No	No	No
AS8400	Yes	No	No	No	No
DS10	Yes	Yes	Yes	No	No
DS10L	Yes	Yes	Yes	No	No
DS15	No	Yes	Yes	Yes	Yes
DS20	Yes	No	No	No	No
DS20E	Yes	Yes	Yes	Yes	No
DS25	Yes	Yes	Yes	Yes	Yes
ES40	Yes	Yes	Yes	Yes	No
ES45	Yes	Yes	Yes	Yes	Yes
ES47	No	Yes	Yes	Yes	Yes
ES80	No	Yes	Yes	Yes	Yes
GS60	Yes	No	No	No	No
GS60E	Yes	No	No	No	No
GS80	Yes	Yes	Yes	Yes	No
GS140	Yes	No	No	No	No
GS160	Yes	Yes	Yes	Yes	No
GS320	Yes	Yes	Yes	Yes	No
GS1280	No	Yes	Yes	Yes	Yes

## Multiple-path support

Tru64 UNIX operating software includes multipath support. No additional software is required to achieve high-availability, multipath capability.

For more information about multipath options, see the HP multi-path web site:

<http://h18006.www1.hp.com/products/sanworks/multipathoptions/index.html>

## Single-path support

Tru64 UNIX servers require a single FCA to support single-path mode.

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### **NOTE:**

Do not use single-path mode in mission-critical environments.

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## Operating constraints

You can find information about operating constraints specific to the EVA firmware and HP StorageWorks Command View EVA in their respective release notes.

## Storage System Scripting Utility for EVA

The latest version of the Storage System Scripting Utility (SSSU) is available on the following HP web site:

<http://h18006.www1.hp.com/products/storage/software/cmdvieweva/index.html>

## Codeload usage

When a maximally configured system is running at full load, codeload functionality is not effective. The system may time out before codeload is complete. HP recommends that you always perform VCS upgrades at an off-peak time.