

HP StorageWorks 4000/6000/8000 Enterprise Virtual Array connectivity 6.1A for Tru64 UNIX release notes

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Version: 6.100

Description

This document describes Tru64 UNIX operating system connectivity support for HP StorageWorks 4000/6000/8000 Enterprise Virtual Array (EVA4000/6000/8000) controller software.

A complete library of EVA4000/6000/8000 documentation is available on the HP support website:

<http://www.hp.com/support/manuals>

Under storage, click **Disk Storage Systems**, and then select **HP StorageWorks 4000/6000/8000 Enterprise Virtual Arrays** under EVA Disk Arrays.

Update recommendation Routine

Supersedes 6.000

Product models

EVA4000/6000/8000

Operating systems

Tru64 UNIX 5.1B-2 or later

Enhancements

This release includes the following enhancements:

- Support for EVA4000/6000/8000 controller software 6.100
- Improved replication performance
- Improved usability

Prerequisites

For the current Tru64 UNIX 5.1B patch kit, see the HP IT Resource Center website:

<http://www.itrc.hp.com>.

Compatibility/interoperability

EVA coexistence

This release provides full support for all previous EVA controller software used in an existing SAN configuration.

Switch support

This release supports the Fibre Channel (FC) switches and firmware versions listed in the *HP StorageWorks SAN design reference guide*, available for download on the HP support website:

<http://www.hp.com/support/manuals>.

Under storage, click **Storage Networking**, and then select **HP StorageWorks SAN** under HP StorageWorks SAN Solutions.

**NOTE:**

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

Failover/failback

Failback preference settings for the HSV controllers are specific to the operating system. For operating system failback information, see the *HP StorageWorks 4000/6000/8000 Enterprise Virtual Array user guide*.

FCA support

Table 1 lists the supported FCAs and the required firmware versions.

Table 1 FCA support

FCA	Driver	Adapter firmware/EFI (minimum)	Supported servers
HP StorageWorks FCA2354 2 Gb, 64-bit/66MHz PCI PN DS-KGPSA-DA	Native	FW: 3.93a0	Alpha
HP StorageWorks FCA2384 2 Gb, 64-bit/133MHz PCI-X PN DS-KGPSA-EA	Native	FW: 1.91x6	Alpha
HP StorageWorks FCA2684 2 Gb, 64-bit/133MHz PCI-X PN DS-A5132-AA	Native	FW: 1.91x6	Alpha
HP StorageWorks FCA2684DC 2 Gb, 64-bit/133MHz PCI-X Dual Channel PN DS-A5134-AA	Native	FW: 1.91x6	Alpha

AlphaServer support

Table 2 lists the EVA-compatible AlphaServers.

Table 2 EVA-compatible AlphaServers

AlphaServer	DS-KGPSA-DA support	DS-KGPSA-EA support	DS-A5132-AA support	DS-A5134-AA support
DS10	Yes	Yes	No	No
DS15	Yes	Yes	Yes	Yes
DS20E	Yes	Yes	Yes	No
DS25	Yes	Yes	Yes	Yes
ES40	Yes	Yes	Yes	No
ES45	Yes	Yes	Yes	Yes
ES47	Yes	Yes	Yes	Yes
ES80	Yes	Yes	Yes	Yes
GS80	Yes	Yes	Yes	No
GS160	Yes	Yes	Yes	No
GS320	Yes	Yes	Yes	No
GS1280	Yes	Yes	Yes	Yes



NOTE:

In order for the AlphaServer console to recognize all eight boot paths to the EVA8000 storage system, you must upgrade the console firmware to release 7.0 or later.

HP StorageWorks Storage System Scripting Utility

The latest version of the HP Storage System Scripting Utility (SSU) is available on the software downloads website: <http://www.hp.com/support/downloads>.

Under storage, click **Storage software**, and then select **HP StorageWorks Command View EVA Software** under Storage Device Management Software. Select the version of HP StorageWorks Command View EVA Media Kit you want to download.

Important notes

EVA configuration best practices

Although the EVA4000/6000/8000 is designed to work in a wide range of configurations, some of the configuration options can influence performance, capacity, or availability. If you have the necessary information, you can manage the configuration to optimize its attributes for a specific application. The configuration options include:

- Number of disk groups
- Type of disk group
- Type and number of disks in a disk group
- Vraid levels (0, 1, and 5)
- Disk failure protection level (none, single, and double)
- Cache settings

For more information on the configuration options, see the *HP StorageWorks 4000/6000/8000 Enterprise Virtual Array configuration best practices white paper*, available on the following website:

<http://h71028.www7.hp.com/ERC/downloads/4AA0-2787ENW.pdf>