

HP StorageWorks

4000/6000/8000 Enterprise Virtual
Array connectivity 5.1C for Tru64 UNIX

release notes

Description

This package contains HP StorageWorks 4000/6000/8000 Enterprise Virtual Array (EVA4000/6000/8000) controller software.

Update recommendation: Routine

Product models

EVA4000/6000/8000

Operating systems

Tru64 UNIX 5.1B-2 or later

Languages

English

Enhancements

This release includes the following enhancements:

- Support for EVA4000/6000/8000 controller software 5.110.
- Support for the backend loop switch, part number 30-10022-01.

Prerequisites

For the current Tru64 Unix version 5.1B patch kit, see the HP IT Resource Center web site:

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

Single-path support

A Tru64 UNIX server requires a single Fibre Channel adapter (FCA) to support single-path mode.

Compatibility/Interoperability

EVA compatibility

Some component versions may change due to revision. For the latest information, see the HP storage web site:

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

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 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 (minimum)
HP StorageWorks FCA2354 2 Gb, 64-bit/66MHz PCI PN DS-KGPSA-DA	Native	3.93a0
HP StorageWorks FCA2384 2 Gb, 64-bit/133MHz PCI-X PN DS-KGPSA-EA	Native	1.91x6
HP StorageWorks FCA2684 2 Gb, 64-bit/133MHz PCI-X PN DS-A5132-AA	Native	1.91x6
HP StorageWorks FCA2684DC 2 Gb, 64-bit/133MHz PCI-X Dual PN DS-A5134-AA	Native	1.91x6

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.

Storage System Scripting Utility for EVA

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

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

From this web site, click **Support & Drivers**.

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 Enterprise Virtual Array configuration best practices — white paper*:

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