

Multi-Platform Sun StorEdge™ network FC switch-8 and switch-16 Guide

This document provides guidelines for use of the Sun network FC switch-8 and switch-16 in third-party operating environments. Topics include:

- Installation Overview
- Related Documentation
- Supportability Specifications
- Configuration Guidelines

Installation Overview

For third-party operating environments, install the switch with the Sun StorEdge™ T3 array and the Multi-Platform Failover Driver (Sun StorEdge Multipath Configurator).

▼ To Operate the Switch in a Third-Party Operating Environment

1. Install your Sun StorEdge T3 arrays.

Refer to the *Sun StorEdge T3 Disk Tray Installation, Operation, and Service Manual* to install and operate the Sun StorEdge T3 array.

2. Install the Sun Multi-Path Failover Driver on your host.

Refer to the failover driver documentation for your operating environment. See TABLE 1 for a list of available documents.

3. Install the Sun network FC switch-8 or switch-16.

Refer to the *Sun StorEdge network FC switch-8 and switch-16 Installation and Configuration Guide* to understand the basics of how to install the Sun switch. Although the manual is specific to installation in the Solaris environment, it provides the essential overview for installing the hardware.

Note – You might need to modify commands for some of the switch activation procedures found in the *Sun StorEdge network FC switch-8 and switch-16 Installation and Configuration Guide* so they comply with your operating environment requirements. See your third-party documentation for further information on how to do this.

Related Documentation

TABLE 1 provides a list of documentation available to help you integrate the driver, switch and array. You can find these documents at: http://www.sun.com/products-n-solutions/hardware/docs/Network_Storage_Solutions.

TABLE 1 Array, Driver and Switch Documentation

Application	Title	Part Number
Array Installation and Service	<i>Sun StorEdge T3 Disk Tray Installation, Operation, and Service Manual</i>	806-1062
Array Release Notes	<i>Sun StorEdge T3 Disk Tray Release Notes</i>	806-1497
Array System Administration	<i>Sun StorEdge T3 Disk Tray Administrator's Guide</i>	806-1063
Array Configuration Guide	<i>Sun StorEdge T3 Disk Tray Configuration Guide</i>	806-4210
Component Management Installation Guide	<i>Component Manager 2.1 Installation Guide: For the Solaris Operating Environment</i>	806-4811
Component Management User's Guide	<i>Component Manager 2.1 User's Guide</i>	806-4813
Component Management Release Notes	<i>Component Manager 2.1 Release Notes</i>	806-4814
Failover Driver User's Guides	<i>Sun Multipath Failover Driver 1.1 for Windows NT User's Guide</i>	806-7766
	<i>Sun Multipath Failover Driver 1.1 for AIX User's Guide</i>	806-7767
	<i>Sun Multipath Failover Driver 1.1 for HP-UX</i>	806-7768
Switch Installation and Configuration Guide	<i>Sun StorEdge network FC switch-8 and switch-16 Installation and Configuration Guide</i>	806-6922
Switch Troubleshooting Guide	<i>Sun StorEdge network FC switch-8 and switch-16 Troubleshooting Guide</i>	806-6923

Supportability Specifications

The switch supports the following hardware and software for each listed operating system.

Support Specifications for All Platforms

The following apply to the switches for all platforms:

- Sun SE FC 16 and Sun SE FC 8 switch firmware: version 30351
- Component Manager: version 2.1 on a Sun server with a Solaris operating environment
- Sun StorEdge T3 disk array firmware: version 1.16c or a compatible version.
- Sun Multi-Platform Failover Driver: version 1.1 for AIX and HP-UX, 1.1.24 for Windows NT 4.0

Third-Party Platform Support Specifications

TABLE 2 Hardware and Software for Third-Party Operating Environments

Operating System and Patches	Host	Host Bus Adaptor (HBA)	HBA Driver	HBA Firmware	Cluster Configuration
HP-UX Version 11.0 with HP-UX General Release and Hardware Enablement and Critical Patches 12/00	HP N/V Class	HP A3740A	B.11.00.03 Tachyon FC	none	MC Service Guard 11.12
	HP K/D Class	HP A3404A	B.11.00.03 Tachyon FC		
	HP L/N/V Class	HP A5158A	B.11.00.05 Tachyon TL/TS		
AIX Version 4.3.3.0 minimum level: maintenance level 2	IBM RS6000 Models: 150, 170, 270, B50, F50, F80, H70, H80, M80, S80 and P series models 640 and B80	IBM FC#6227	devices.pci.df1000f7rte minimum level: Version 4.3.3.27	minimum level: ROS Level 02903290	HACMP Version 4.4
Microsoft Windows NT 4.0 Service Pack 6	Intel	QLogic QLA2200F/66	Version 7.05.05	minimum level: Version 2.01.16	none
		Emulex LP8000-F1/N1	Version 4-4.52a7	minimum level: Version 3.81a1	

Configuration Guidelines

For complete configuration examples and instructions for the switch, refer to the *Sun StorEdge network FC switch-8 and switch-16 Installation and Configuration Guide*.

Note – The FC switch-8 and switch-16 guide offers configuration procedures and examples for both the Sun StorEdge T3 array and for other arrays. Instructions and examples only for the Sun StorEdge T3 arrays apply to third-party operating environments.

The configuration guidelines for operating the switch in a third-party operating environments are like those found in Chapter 2 of the FC switch-8 and switch-16 guide. However, there are some additional guidelines as follows:

- Arrays
 - Sun StorEdge T3 array for the workgroup and the enterprise are supported.
 - Other Sun StorEdge arrays are not supported.
- Switches
 - For High Availability applications, configure two switches in parallel.
- Zones for switch port groups
 - A maximum of four devices for each zone is possible with the Sun StorEdge T3 array.
 - A minimum of two ports for each zone are needed. For example, a 16-port switch can have a maximum of eight zones.
 - For the Sun StorEdge T3 array, you may have a maximum of four arrays and two host I/O transfer initiators, unless the host is using Windows NT. Windows NT support includes *one* host I/O transfer initiator.
 - The AIX and HP-UX operating environments support dynamic addition of storage to a zone, but Windows NT does not. Because you must reboot the host to recognize storage added to a Windows NT host, the process is not dynamic.
 - The Host Bus Adaptors (HBAs) for all hosts in a zone must be of the same make and model, using the same firmware and device driver. Different HBAs or HBA firmware in a zone is not supported.

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