

# Storage System

## Planning Checklist

EC1434-2-E1, First Edition



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## **Document Description**

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This document is a checklist for planning the installation of a storage system and will remain the official reference source for all revisions and releases until rescinded by an update.

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# *Storage System Planning Checklist*

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## **About the *Storage System Planning Checklist***

The *Storage System Planning Checklist* is intended to help you plan and organize the installation of a new storage system or the expansion of an existing storage system. This checklist will help you organize the activities for your installation and help ensure that the site for your installation can meet the weight, power, and cooling requirements of your new storage system. The *Storage System Planning Checklist* is specifically designed to help you prepare your site and equipment for installation.

The *Storage System Planning Checklist* takes user input, identifies potential issues, and suggests the documents necessary to resolve any issues. Installation and support staff can then use the information from the *Storage System Planning Checklist* to ensure that the proper steps are taken before installation. Furthermore, the checklist input serves as a record of the installation and can be used as a reference for future storage system upgrades.

Personnel who can benefit from the *Storage System Planning Checklist* include anyone directly involved in the installation of storage system equipment and anyone who may need to refer to hardware and software information in the course of their work with the storage system. These personnel would need to have a basic knowledge of storage area network (SAN) functionality.

New storage system installations must be performed as quickly and efficiently as possible in order to minimize the disruptions on an operating system. By completing the *Storage System Planning Checklist*, you can help reduce disruptions and minimize the impact on system users.

## **How to Use the Planning Checklist**

After you have ordered storage system equipment, but before it arrives, complete this installation planning checklist. Read each section, check off all applicable boxes, and answer all questions. If a particular topic is not appropriate to the installation, mark it as “not applicable.” This will help ensure that personnel installing the storage system do not think the information was missed.

## Contact Information

Use the following fields to enter information about personnel who are important to the successful installation of the storage system. Such personnel might include installation personnel, customer support representatives, field engineers, or system administrators. If you need to record this information for more than one contact, copy this page and keep the information with this checklist.

**Contact Name:** \_\_\_\_\_

**Company Name:** \_\_\_\_\_

**Address 1:** \_\_\_\_\_

**Address 2:** \_\_\_\_\_

**City:** \_\_\_\_\_ **State/Province:** \_\_\_\_\_

**Country:** \_\_\_\_\_ **Postal Code:** \_\_\_\_\_

**Telephone:** \_\_\_\_\_ **Fax:** \_\_\_\_\_

**Email:** \_\_\_\_\_

**Notes:**

## Storage Area Network Planning Checklist

Clearly defined SAN objectives and business objectives can help define the best configuration for your storage system. To help define the objectives for your SAN, check the appropriate boxes. To help determine possible future storage system expansion, make note of your current and future business objectives.

### SAN Objectives

**What are your specific goals in migrating to, or expanding your SAN?**

(Check all that apply)

- Backup:**
- Consolidation:**
- High Availability:**
- Heterogeneous Host Support:**
- Replication:**
- Performance Improvement:**
- Other:** \_\_\_\_\_

### Current and Future Business Objectives

**What are the current strategic and tactical objectives of your storage infrastructure?**

**What are your desired strategic and tactical objectives of your new or updated SAN?**

## Environmental Requirements

Before installing the storage system, make sure your site is capable of meeting the following dimension, weight, temperature, humidity, altitude, airflow, and power requirements. If you can meet these requirements, check the appropriate boxes. If you cannot meet these requirements, you may need to modify your site to ensure that all requirements have been met.

Read the *Storage System Site Preparation Guide* and complete all applicable preparations to the building and area where you intend to install the unit. Other site preparation activities include the following tasks:

- Install uninterruptible power supply (UPS) devices.
- Install host bus adapters (HBAs), switches, or other devices, if applicable.
- Route interface cables from the hosts or switches to the installation area.
- For rackmount installations, clear space at the installation area to ensure that there is enough room to install the modules and to service the unit.
- Route main power cords to the installation area.

## 72-Inch Cabinet Requirements

### Dimensions

In addition to the dimensions listed in [Table 1](#), allow at least 30 in. (76.2 cm) in front of the cabinet and at least 24 in. (60.96 cm) behind the cabinet for service clearance, proper ventilation, and heat dissipation. The cabinet does not require side clearances.

Table 1 72-inch Cabinet Dimensions

	<b>Dimensions</b>	<b>Notes</b>
<input type="checkbox"/>	<b>Width:</b> 22 in. (56 cm)	
<input type="checkbox"/>	<b>Depth:</b> 36 in. (91 cm)	
<input type="checkbox"/>	<b>Height:</b> 72 in. (183 cm)	
<input type="checkbox"/>	<b>Service, Front:</b> 30 in. (76.2 cm)	
<input type="checkbox"/>	<b>Service, Rear:</b> 24 in. (60.96 cm)	

## Weight

The weight of the populated cabinet depends upon the number and type of modules installed in the cabinet. [Table 2](#) lists the weight of an empty cabinet and the maximum weight of each component. Use these weights to estimate the total weight of your storage system. The total weight of your storage system is the weight of all modules installed in each cabinet plus the weight of all cabinets. Record the total weight in this checklist to reference when checking flooring load or elevator weight restrictions.

Table 2 72-inch Cabinet Module Weight

	Module	Weight	Notes
<input type="checkbox"/>	Cabinet	270.0 lb (122.7 kg)	Empty
<input type="checkbox"/>	9170-010 Drive Module	80.0 lb (36.3 kg)	Fully Populated
<input type="checkbox"/>	9170-014 Drive Module	90.0 lb (40.8 kg)	Fully Populated
<input type="checkbox"/>	FLA200 Drive Module	89.0 lb (40.4 kg)	Fully Populated
<input type="checkbox"/>	FLA300 Drive Module	88.0 lb (40 kg)	Fully Populated
<input type="checkbox"/>	FLC200 Drive Module	88.0 lb (40 kg)	Fully Populated
<input type="checkbox"/>	FLX280 Control Module	89.0 lb (40.4 kg)	Fully Populated
<input type="checkbox"/>	D178 Control Module	89.0 lb (40.4 kg)	Fully Populated
<input type="checkbox"/>	FLX240 Control Module	62.0 lb (28.2 kg)	Fully Populated
<input type="checkbox"/>	FLX210 Array Module	89.0 lb (40.4 kg)	Fully Populated
<input type="checkbox"/>	FLX240 Array Module	93.0 lb (42.2 kg)	Fully Populated
<input type="checkbox"/>	FLX240 Drive Limited Array Module	93.0 lb (42.2 kg)	Fully Populated

**Total Storage System Weight:** \_\_\_\_\_

## Deskside Requirements

### Dimensions

Table 3 lists the overall dimensions for all deskside modules. Airflow for cooling a deskside module is from front to back. Arrange the space around the deskside module to avoid blocking the airflow.

Table 3 Deskside Dimensions

	Dimensions	Notes
<input type="checkbox"/>	<b>Width:</b> 6.5 in. (16.6 cm)	
<input type="checkbox"/>	<b>Depth:</b> 25.95 in. (65.91 cm)	
<input type="checkbox"/>	<b>Height:</b> 20.7 in. (52.7 cm)	

### Weight

Table 4 lists the maximum weight of each fully populated deskside module. Check the box next to the deskside module you will use and note the weight of the module on the line below the table.

Table 4 Deskside Weights

	Module	Weight	Notes
<input type="checkbox"/>	9170-010 Drive Module	108.0 lb (49 kg)	Fully Populated
<input type="checkbox"/>	9170-014 Drive Module	118.0 lb (53.5 kg)	Fully Populated
<input type="checkbox"/>	FLA200 Drive Module	117.0 lb (53.1 kg)	Fully Populated
<input type="checkbox"/>	FLA300 Drive Module	116.0 lb (52.7 kg)	Fully Populated
<input type="checkbox"/>	FLC200 Drive Module	116.0 lb (52.7 kg)	Fully Populated
<input type="checkbox"/>	FLX240	90.0 lb (40.8 kg)	Fully Populated
<input type="checkbox"/>	FLX210	117.0 lb (53.1 kg)	Fully Populated
<input type="checkbox"/>	FLX240	121.0 lb (54.9 kg)	Fully Populated
<input type="checkbox"/>	FLX240 Drive Limited	121.0 lb (54.9 kg)	Fully Populated

**Module Weight:** \_\_\_\_\_

## Temperature and Humidity

Table 5 lists the operating, storage, and transit temperature ranges for all rack-mount modules, the rack-mount cabinet, and all deskside modules.

Table 5 Temperature Ranges

	Temperature Range	Relative Humidity
<input type="checkbox"/> <b>Operating:</b>	50° F to 104° F (10° C to 40° C)	20% to 80%
<input type="checkbox"/> <b>Storage:</b>	14° F to 149° F (-10° C to 65° C)	10% to 90%
<input type="checkbox"/> <b>Transit:</b>	-40° F to 149° F (-40° C to 65° C)	5% to 95%

**NOTE** If you plan to operate the storage system at an altitude between 3280 ft. to 9842 ft. (1000 m to 3000 m) above sea level, lower the operating temperature 3.3° F (1.7° C) for every 3280 ft. (1000 m) above sea level.

## Altitude

Table 6 lists the operating, storage, and transit altitude ranges for all rack-mount modules, the rack-mount cabinet, and all deskside modules.

Table 6 Altitude Ranges

	Altitude
<input type="checkbox"/> <b>Operating:</b>	100 ft. (30.5 m) below sea level to 9842 ft. (3000 m) above sea level
<input type="checkbox"/> <b>Storage:</b>	100 ft. (30.5 m) below sea level to 9842 ft. (3000 m) above sea level
<input type="checkbox"/> <b>Transit:</b>	100 ft. (30.5 m) below sea level to 40,000 ft. (12,000 m) above sea level

**NOTE** The FLX280, FLX280, and D178 modules have maximum operating and storage altitude values of 10,000 ft. (3048 m); however, because the FLX280, FLX280, and D178 are rack-mount modules the actual maximum operating altitude value is limited by the maximum operating altitude value for the cabinet.

## 72-inch Cabinet Power and Wiring

Table 7 72-inch Cabinet Module Nominal Voltage and Frequency Requirements

<input type="checkbox"/>	<b>Nominal Voltage:</b>	180 to 264 VAC
<input type="checkbox"/>	<b>Frequency:</b>	50 to 60 Hz
<input type="checkbox"/>	<b>Circuit Overloading:</b>	You must provide overload protection.
<input type="checkbox"/>	<b>Remote Monitoring:</b>	You must provide a dedicated telephone line.

Table 8 72-inch Cabinet Module Current Requirements

	<b>Module</b>	<b>Idle Current</b>	<b>Maximum Operating Current</b>	<b>Maximum Surge Current</b>
<input type="checkbox"/>	9170-010 Drive Module	1.31 A	1.34 A	1.92 A (10-drive spin up)
<input type="checkbox"/>	9170-014 Drive Module	1.42 A	1.46 A	1.97 A
<input type="checkbox"/>	FLA200 Drive Module	1.27 A	1.37 A	2.36 A
<input type="checkbox"/>	FLA300 Drive Module	1.49 A	1.67 A	3.06 A
<input type="checkbox"/>	FLC200 Drive Module	1.31 A	1.43 A	2.03 A
<input type="checkbox"/>	FLX280 Control Module	1 A Nominal		
<input type="checkbox"/>	D178 Control Module	1 A Nominal		
<input type="checkbox"/>	FLX240 Control Module	0.51 A	0.52 A	
<input type="checkbox"/>	FLX210 Array Module	1.33 A	1.57 A	
<input type="checkbox"/>	FLX240 Array Module	1.33 A	1.57 A	
<input type="checkbox"/>	FLX240 Drive Limited Array Module	1.27 A	1.49 A	2.06 A

Current is measured at 230 VAC, 60 Hz at 0.73 power supply efficiency and 0.96 power factor. All modules are shipped with two AC power cords that are appropriate for use in a typical outlet in the destination country. If you have a rackmount cabinet with internal power cabling, such as a ladder cord, you do not need the power cords shipped with the modules.

## Deskside Power and Wiring

Table 9 Deskside Module Nominal Voltage and Frequency Requirements

<input type="checkbox"/>	<b>Nominal Voltage:</b>	90 to 136 VAC
<input type="checkbox"/>	<b>Frequency:</b>	50 to 60 Hz
<input type="checkbox"/>	<b>Circuit Overloading:</b>	You must provide overload protection.
<input type="checkbox"/>	<b>Remote Monitoring:</b>	You must provide a dedicated telephone line.

Table 10 Deskside Module Current Requirements

	<b>Module</b>	<b>Idle Current</b>	<b>Maximum Operating Current</b>	<b>Maximum Surge Current</b>
<input type="checkbox"/>	9170-010 Drive Module	3.02 A	3.11 A	4.70 A (10-drive spin up)
<input type="checkbox"/>	9170-014 Drive Module	2.95 A	3.03 A	4.28 A
<input type="checkbox"/>	FLA200 Drive Module	2.93 A	3.18 A	5.85 A
<input type="checkbox"/>	FLA300 Drive Module	2.90 A	3.26 A	4.57 A
<input type="checkbox"/>	FLC200 Drive Module	2.65 A	2.78 A	4.00 A
<input type="checkbox"/>	FLX240 Control Module	0.96 A	0.97 A	
<input type="checkbox"/>	FLX210 Array Module	2.50 A	3.01 A	
<input type="checkbox"/>	FLX240 Array Module	2.50 A	3.01 A	
<input type="checkbox"/>	FLX240 Drive Limited Array Module	2.44 A	2.89 A	4.10 A

Current is measured at 115 VAC, 60 Hz at 0.73 power supply efficiency and 0.96 power factor. All modules are shipped with two AC power cords that are appropriate for use in a typical outlet in the destination country.

## Dedicated Telephone Line

Table 11 Dedicated Telephone Line

<input type="checkbox"/>	If the storage system requires a dedicated telephone line for the remote monitoring feature, check this box.
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## Layouts

For planning purposes, use the space on this page to provide diagrams of your existing SAN layout and the space on the following page to provide diagrams of your proposed layout.

### Existing SAN Layout

## **Proposed SAN Layout**

## Host Information

Enter information about the hosts on your storage system in the following tables. If you are going to add, remove, reuse, or upgrade a host, check the appropriate boxes. Use the “Notes” area to add other information about the hosts.

### Host #1

<input type="checkbox"/> Add	<input type="checkbox"/> Remove	<input type="checkbox"/> Reuse	<input type="checkbox"/> Upgrade
<b>Host Name:</b> _____			
<b>Make:</b> _____		<b>Model:</b> _____	
<b>OS:</b> _____		<b>Patch/ Service Pack:</b> _____	
<b>Type of Cluster:</b> _____		<b>Cluster ID:</b> _____	
<b>HBA Make:</b> _____		<b>HBA Model:</b> _____	
<b>Number of HBAs:</b> _____		<b>HBA Driver:</b> _____	
<b>HBA Firmware:</b> _____			

### Notes

## Host #2

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<input type="checkbox"/> Add	<input type="checkbox"/> Remove	<input type="checkbox"/> Reuse	<input type="checkbox"/> Upgrade
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Host Name: \_\_\_\_\_

Make: \_\_\_\_\_ Model: \_\_\_\_\_

OS: \_\_\_\_\_ Patch/  
Service Pack: \_\_\_\_\_

Type of Cluster: \_\_\_\_\_ Cluster ID: \_\_\_\_\_

HBA Make: \_\_\_\_\_ HBA Model: \_\_\_\_\_

Number of HBAs: \_\_\_\_\_ HBA Driver: \_\_\_\_\_

HBA Firmware: \_\_\_\_\_

## Notes

# Disk Subsystem Information

## Basic Disk Subsystem Information

Enter information about your disk subsystems in the following tables. If you are going to add, remove, reuse, or upgrade a disk subsystem, check the appropriate boxes.

### Disk Subsystem #1

<input type="checkbox"/> Add	<input type="checkbox"/> Remove	<input type="checkbox"/> Reuse	<input type="checkbox"/> Upgrade
<hr/>			
<b>Disk Subsystem Name:</b>	<hr/>		
<b>Make:</b>	<hr/>	<b>Model:</b>	<hr/>
<b>Firmware Version:</b>	<hr/>		
<b>Total Disk Capacity:</b>	<hr/>	<b>Total Used Capacity:</b>	<hr/>
<b>Host Group:</b>	<hr/>	<b>Host Name:</b>	<hr/>
<b>Volume Group:</b>	<hr/>	<b>Volume Name:</b>	<hr/>
<b>LUN Number:</b>	<hr/>	<b>Volume Name:</b>	<hr/>
<b>RAID Level:</b>	<hr/>	<b>Volume Name:</b>	<hr/>
<b>Volume Group:</b>	<hr/>	<b>Volume Name:</b>	<hr/>
<b>LUN Number:</b>	<hr/>	<b>Volume Name:</b>	<hr/>
<b>RAID Level:</b>	<hr/>	<b>Volume Name:</b>	<hr/>
<b>Volume Group:</b>	<hr/>	<b>Volume Name:</b>	<hr/>
<b>LUN Number:</b>	<hr/>	<b>Volume Name:</b>	<hr/>
<b>RAID Level:</b>	<hr/>	<b>Volume Name:</b>	<hr/>

## Disk Subsystem #2

Add       Remove       Reuse       Upgrade

Disk Subsystem Name: \_\_\_\_\_

Make: \_\_\_\_\_ Model: \_\_\_\_\_

Firmware Version: \_\_\_\_\_

Total Disk Capacity: \_\_\_\_\_ Total Used Capacity: \_\_\_\_\_

Host Group: \_\_\_\_\_ Host Name: \_\_\_\_\_

Volume Group: \_\_\_\_\_ Volume Name: \_\_\_\_\_

LUN Number: \_\_\_\_\_ Volume Name: \_\_\_\_\_

RAID Level: \_\_\_\_\_ Volume Name: \_\_\_\_\_

Volume Group: \_\_\_\_\_ Volume Name: \_\_\_\_\_

LUN Number: \_\_\_\_\_ Volume Name: \_\_\_\_\_

RAID Level: \_\_\_\_\_ Volume Name: \_\_\_\_\_

Volume Group: \_\_\_\_\_ Volume Name: \_\_\_\_\_

LUN Number: \_\_\_\_\_ Volume Name: \_\_\_\_\_

RAID Level: \_\_\_\_\_ Volume Name: \_\_\_\_\_

### Disk Subsystem #3

<input type="checkbox"/> Add	<input type="checkbox"/> Remove	<input type="checkbox"/> Reuse	<input type="checkbox"/> Upgrade
<b>Disk Subsystem Name:</b> _____			
<b>Make:</b> _____		<b>Model:</b> _____	
<b>Firmware Version:</b> _____			
<b>Total Disk Capacity:</b> _____		<b>Total Used Capacity:</b> _____	
<b>Host Group:</b> _____		<b>Host Name:</b> _____	
<b>Volume Group:</b> _____		<b>Volume Name:</b> _____	
<b>LUN Number:</b> _____		<b>Volume Name:</b> _____	
<b>RAID Level:</b> _____		<b>Volume Name:</b> _____	
<b>Volume Group:</b> _____		<b>Volume Name:</b> _____	
<b>LUN Number:</b> _____		<b>Volume Name:</b> _____	
<b>RAID Level:</b> _____		<b>Volume Name:</b> _____	
<b>Volume Group:</b> _____		<b>Volume Name:</b> _____	
<b>LUN Number:</b> _____		<b>Volume Name:</b> _____	
<b>RAID Level:</b> _____		<b>Volume Name:</b> _____	

### Disk Subsystem #4

Add                       Remove                       Reuse                       Upgrade

Disk Subsystem Name: \_\_\_\_\_

Make: \_\_\_\_\_ Model: \_\_\_\_\_

Firmware Version: \_\_\_\_\_

Total Disk Capacity: \_\_\_\_\_ Total Used Capacity: \_\_\_\_\_

Host Group: \_\_\_\_\_ Host Name: \_\_\_\_\_

Volume Group: \_\_\_\_\_ Volume Name: \_\_\_\_\_

LUN Number: \_\_\_\_\_ Volume Name: \_\_\_\_\_

RAID Level: \_\_\_\_\_ Volume Name: \_\_\_\_\_

Volume Group: \_\_\_\_\_ Volume Name: \_\_\_\_\_

LUN Number: \_\_\_\_\_ Volume Name: \_\_\_\_\_

RAID Level: \_\_\_\_\_ Volume Name: \_\_\_\_\_

Volume Group: \_\_\_\_\_ Volume Name: \_\_\_\_\_

LUN Number: \_\_\_\_\_ Volume Name: \_\_\_\_\_

RAID Level: \_\_\_\_\_ Volume Name: \_\_\_\_\_

### Disk Subsystem #5

<input type="checkbox"/> Add	<input type="checkbox"/> Remove	<input type="checkbox"/> Reuse	<input type="checkbox"/> Upgrade
<b>Disk Subsystem Name:</b> _____			
<b>Make:</b> _____	<b>Model:</b> _____		
<b>Firmware Version:</b> _____			
<b>Total Disk Capacity:</b> _____	<b>Total Used Capacity:</b> _____		
<b>Host Group:</b> _____	<b>Host Name:</b> _____		
<b>Volume Group:</b> _____	<b>Volume Name:</b> _____		
<b>LUN Number:</b> _____	<b>Volume Name:</b> _____		
<b>RAID Level:</b> _____	<b>Volume Name:</b> _____		
<b>Volume Group:</b> _____	<b>Volume Name:</b> _____		
<b>LUN Number:</b> _____	<b>Volume Name:</b> _____		
<b>RAID Level:</b> _____	<b>Volume Name:</b> _____		
<b>Volume Group:</b> _____	<b>Volume Name:</b> _____		
<b>LUN Number:</b> _____	<b>Volume Name:</b> _____		
<b>RAID Level:</b> _____	<b>Volume Name:</b> _____		

## Storage Partitions

Enter information about the disk subsystem partitions in the following table. If you are going to create, modify, remove, or reuse a partition, check the appropriate boxes.

Create	Modify	Remove	Reuse	Host Group Name	Host Name	Host Type
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____

## Snapshot

Snapshot Volume is a premium feature that you can enable on your disk subsystem. (For further information about Snapshot Volumes, refer to the *Snapshot Volume Feature Guide*.) Enter information about the Snapshot Volumes on your disk subsystem in the following table. If you are going to create, remove, or reuse a Snapshot Volume, check the appropriate boxes.

Create	Remove	Reuse	Base Volume	Snapshot Volume	Snapshot Repository Volume
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____

## Remote Volume Mirroring

Remote Volume Mirroring (RVM) is a premium feature that you can enable on your disk subsystem. (For further information about Remote Volume Mirroring refer to the *Remote Volume Mirror Feature Guide*.) Enter information about the Remote Volume Mirroring on your disk subsystem in the following table. If you are going to create, remove, or reuse Remote Volume Mirroring, check the appropriate boxes.

Create	Remove	Reuse	Primary			Secondary		
			Host	Disk Subsystem	Volume	Host	Disk Subsystem	Volume
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____		_____	_____	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____		_____	_____	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____		_____	_____	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____		_____	_____	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____		_____	_____	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____		_____	_____	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____		_____	_____	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____		_____	_____	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____	_____

## Volume Copy

Volume Copy is a premium feature that you can enable on your disk subsystem. (For further information about Volume Copy refer to the *Volume Copy Feature Guide*.) Enter information about the Volume Copy operation on your disk subsystem in the following table. Check the appropriate boxes if you are going to create, remove, or reuse a Volume Copy.

Create	Remove	Reuse	Disk Subsystem	Source Volume	Target Volume
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____

## Secondary Storage/Backup Device Information

Use the following tables to enter information about the secondary storage devices (such as tape storage systems) that are attached to your storage system. If you are going to add, remove, reuse, or upgrade a secondary storage system, check the appropriate boxes.

### Backup Device #1

---

<input type="checkbox"/> Add	<input type="checkbox"/> Remove	<input type="checkbox"/> Reuse	<input type="checkbox"/> Upgrade
------------------------------	---------------------------------	--------------------------------	----------------------------------

---

**Disk Subsystem Name:** \_\_\_\_\_

**Make:** \_\_\_\_\_ **Model:** \_\_\_\_\_

**Type:** \_\_\_\_\_ **Firmware Version:** \_\_\_\_\_

### Backup Device #2

---

<input type="checkbox"/> Add	<input type="checkbox"/> Remove	<input type="checkbox"/> Reuse	<input type="checkbox"/> Upgrade
------------------------------	---------------------------------	--------------------------------	----------------------------------

---

**Disk Subsystem Name:** \_\_\_\_\_

**Make:** \_\_\_\_\_ **Model:** \_\_\_\_\_

**Type:** \_\_\_\_\_ **Firmware Version:** \_\_\_\_\_

### Backup Device #3

---

Add       Remove       Reuse       Upgrade

---

**Disk Subsystem Name:** \_\_\_\_\_

**Make:** \_\_\_\_\_ **Model:** \_\_\_\_\_

**Type:** \_\_\_\_\_ **Firmware Version:** \_\_\_\_\_

# Fibre Channel Switch

## Fibre Channel Switch Information

Use the following tables to enter information about the Fibre Channel switches that are on your storage system. If you are going to add, remove, reuse or upgrade the Fibre Channel switches on your storage system, check the appropriate boxes.

### Fibre Channel Switch #1

<input type="checkbox"/> Add	<input type="checkbox"/> Remove	<input type="checkbox"/> Reuse	<input type="checkbox"/> Upgrade
<b>Switch Name:</b> _____			
<b>Make:</b> _____	<b>Model:</b> _____		
<b>Firmware Version:</b> _____	<b>Serial Number:</b> _____		
<b>Domain ID:</b> _____	<b>IP Address:</b> _____		
<b>Default Gateway:</b> _____	<b>Subnet Mask:</b> _____		
<b>SNMP Server:</b> _____	<b>SNMP Server IP:</b> _____		
<b>Community String:</b> _____	<b>Password:</b> _____		

## Fibre Channel Switch #2

---

<input type="checkbox"/> Add	<input type="checkbox"/> Remove	<input type="checkbox"/> Reuse	<input type="checkbox"/> Upgrade
------------------------------	---------------------------------	--------------------------------	----------------------------------

---

Switch Name: \_\_\_\_\_

Make: \_\_\_\_\_ Model: \_\_\_\_\_

Firmware Version: \_\_\_\_\_ Serial Number: \_\_\_\_\_

Domain ID: \_\_\_\_\_ IP Address: \_\_\_\_\_

Default Gateway: \_\_\_\_\_ Subnet Mask: \_\_\_\_\_

SNMP Server: \_\_\_\_\_ SNMP Server IP: \_\_\_\_\_

Community String: \_\_\_\_\_ Password: \_\_\_\_\_

### Fibre Channel Switch #3

---

<input type="checkbox"/> Add	<input type="checkbox"/> Remove	<input type="checkbox"/> Reuse	<input type="checkbox"/> Upgrade
------------------------------	---------------------------------	--------------------------------	----------------------------------

---

**Switch Name:** \_\_\_\_\_

**Make:** \_\_\_\_\_ **Model:** \_\_\_\_\_

**Firmware Version:** \_\_\_\_\_ **Serial Number:** \_\_\_\_\_

**Domain ID:** \_\_\_\_\_ **IP Address:** \_\_\_\_\_

**Default Gateway:** \_\_\_\_\_ **Subnet Mask:** \_\_\_\_\_

**SNMP Server:** \_\_\_\_\_ **SNMP Server IP:** \_\_\_\_\_

**Community String:** \_\_\_\_\_ **Password:** \_\_\_\_\_

## Fibre Channel Switch Names

Use the following tables to enter information about the names of the Fibre Channel switches that are on your storage system.

### Fibre Switch #1

Switch Name: \_\_\_\_\_

Port #:	Port Type:	End Device Name:	World Wide Name:
0			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

## Fibre Channel Switch #2

Switch Name: \_\_\_\_\_

Port #:	Port Type:	End Device Name:	World Wide Name:
0	_____	_____	_____
1	_____	_____	_____
2	_____	_____	_____
3	_____	_____	_____
4	_____	_____	_____
5	_____	_____	_____
6	_____	_____	_____
7	_____	_____	_____
8	_____	_____	_____
9	_____	_____	_____
10	_____	_____	_____
11	_____	_____	_____
12	_____	_____	_____
13	_____	_____	_____
14	_____	_____	_____
15	_____	_____	_____

### Fibre Channel Switch #3

Switch Name: \_\_\_\_\_

Port #:	Port Type:	End Device Name:	World Wide Name:
0	_____	_____	_____
1	_____	_____	_____
2	_____	_____	_____
3	_____	_____	_____
4	_____	_____	_____
5	_____	_____	_____
6	_____	_____	_____
7	_____	_____	_____
8	_____	_____	_____
9	_____	_____	_____
10	_____	_____	_____
11	_____	_____	_____
12	_____	_____	_____
13	_____	_____	_____
14	_____	_____	_____
15	_____	_____	_____

## Fibre Channel Switch Zoning Information

Use the following table to enter information about the Fibre Channel switch zoning that is on your storage system. If you are going to create, remove, or reuse the Fibre Channel switch zoning on your storage system check the appropriate boxes.

Create	Remove	Reuse	Switch Name	Zone Name	Ports
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____

