

Storage Array Fault Analysis Guide

1. Introduction

This guide provides a general baseline for analyzing and resolving faults detected in storage arrays.

2. Fault Analysis Workflow

- Identify fault source and code from event logs or system alerts.
- Review the fault details, location, and associated components.
- Refer to the troubleshooting table for recommended analysis steps.
- Apply the recommended resolution procedure.
- Verify system status post resolution.

3. Common Storage Array Faults

Fault Code	Description	Potential Cause	Initial Action
F001	Disk Failure	Physical disk error, bad sectors	Identify failed disk and replace
F002	Controller Offline	Firmware or hardware fault	Restart controller, check logs
F003	Temperature Alert	Cooling failure, blocked airflow	Inspect fans, check system environment
F004	Power Redundancy Lost	Power supply unit failure	Check PSU status and cabling

4. Resolution Steps Example

Disk Failure (F001):

- Locate affected disk using management interface.
- Confirm disk failure with system logs.
- Replace failed disk with a compatible spare.
- Monitor array rebuild progress.
- Verify complete recovery and normal operation.

5. Notes

Always consult official documentation for device-specific procedures and safety recommendations.