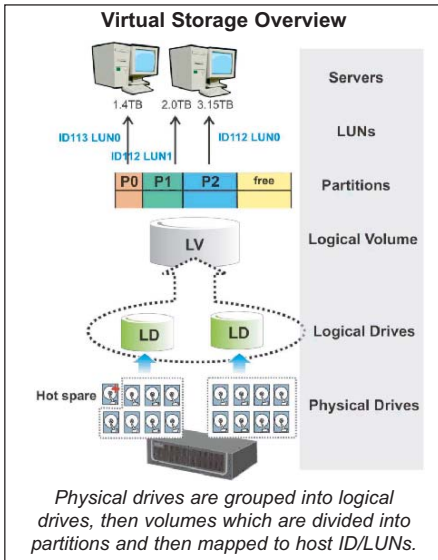


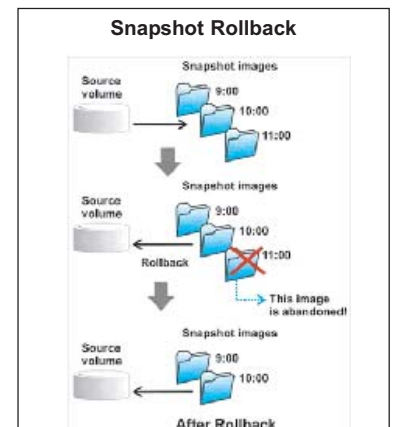
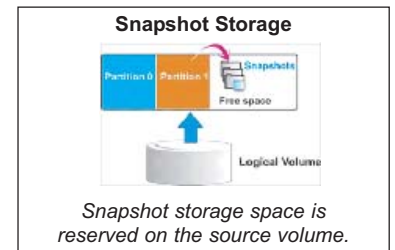
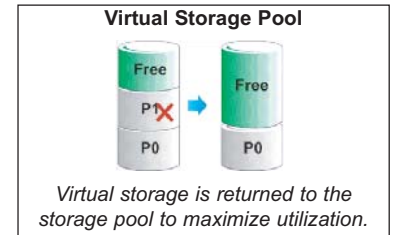
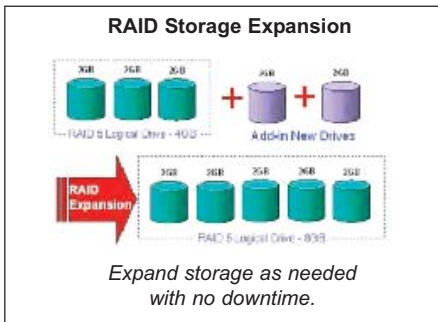
FlashDisk® Global Manager™

On-Board Storage Services Virtual Storage Pools, Snapshots, Mirroring, Volume Copy & RAID 6



FlashDisk Global Manager™ provides a centralized management pane for FlashDisk “VX” disk arrays installed and a centralized event notifications. This makes it very easy to manage a large and flexible virtual and tiered storage pool including primary storage, snapshot images and mirror volumes - and features FlashD2D™ - a unique scheduled, zero-downtime disk-to-disk backup.

FlashDisk Global Manager, is a Java-based program specifically designed for managing multiple FlashDisk RAID disk arrays - all from a single web browser GUI. FlashDisk Global Manager provides a user-friendly interface that graphically represents disk array elements and simplifies the normally complicated process of array configuration. FlashDisk Global Manager also provides real-time representation of array statuses, thus making the task of monitoring disk arrays virtually effortless. FlashDisk Global Manager complements the on-board console interface found on the RAID controllers and the menu-driven configuration utility that provides the same functionality, but with greater ease of use. FlashDisk Global Manager comes with different utilities, including a portal window, FlashPath™ Manager, Configuration Manager, Notification Manager, Disk Performance Monitor, and a Storage Manager. The operating statuses of multiple systems are shown in the portal window, and the access to each system is also made via the portal window.



Storage Services Included

Virtual Storage Pools

Create, expand, and delete storage volumes as requirements change to maximize storage utilization.

Snapshots

Schedule up to 1024 snapshots as often as every 10 minutes. Mount and read snapshots, restore files and databases. Rollback to selected time. Server agent integrates with Microsoft Volume Shadow Services (VSS).

Mirroring

Create mirror volumes, split mirrors, fast resync for data redundancy, backup, data mining and analysis.

Volume Copy

Reconstitute full volumes from snapshots, create multiple full versions to avoid taxing production.

FlashD2D Backup

Scheduled zero-downtime tiered primary to secondary disk-to-disk backup. Enables off-line copy to tape.

Global Management

Manage multiple FlashDisk systems from a single, easy to use GUI from any browser on the web.

Storage Wizard

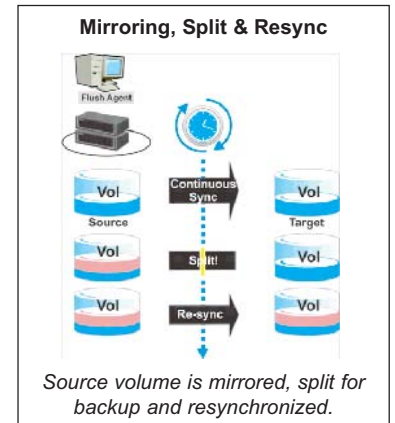
Wizard simplifies initial setup and menus offer more advanced settings.

On-Board Functionality

All storage services are built-in to the RAID controllers - No external appliance is needed.

Low cost

Storage services deliver tremendous value at a fraction of the price of other popular vendors.



FlashDisk® Global Manager™ Highlights

The initial screen displays once you start and enter a range of IP addresses. FlashDisk Global Manager scans the IP range within a network and displays all detected RAID systems and application servers having an in-band connection. A single click on a connected RAID system displays a summary page of array statuses and an event list on the right hand side of the screen.

Initial FlashDisk Global Manager Portal Window

VIX3418R, WINSYS

Model: VIX3418R Name: WINSYS
IP: 192.168.150.104 Controller ID: 390197

Capacity
Total Capacity: 17834 GB

Configurations	Count	Logical Volume	Count
Controller	2	Logical Volume	1
JBOD	0	Logical Drive	1
Total Disk	16	Total Partition	4
Spare Disk	0	Unused Partition	3
		LUN Mapping	1

License
Storage Services FlashPath

Event List

Portal displays five status panels and provides access to all functions.

Configuration Options

Menu enables control of drives, volumes, channels, LUNs and more . . .

Storage Hardware Maintenance

Front View

RAID

Functions

- Copy and Replace
- Clone
- Reserved Space
- Media Scan
- Monitor Status
- Identify Drive
- Read/Write Test

Selected Drive: 01

Read/Write Test: Read/Write Test

End Occurrence: No Action

Recovery Process: No Recovery

Apply

Visual display of drive status in array plus hardware maintenance menu.

Storage Hardware Status

Enclosure View

RAID (Logical Volume)

Information Summary

Status LEDs

Visual display of all field replaceable units (FRU) status.

Backup Scheduler

Flash2D2 automates disk-to-disk backups.

Volume Copy Summary

IP	Type	Name
192.168.150.104	Volume Copy	Volume Copy 0
192.168.150.104	Volume Copy	Volume Copy 1
192.168.150.104	Volume Copy	Volume Copy 2
192.168.150.104	Volume Copy	Volume Copy 3
192.168.150.104	Volume Copy	Volume Copy 4
192.168.150.104	Volume Copy	Volume Copy 5
192.168.150.104	Volume Copy	Volume Copy 6
192.168.150.104	Volume Copy	Volume Copy 7
192.168.150.104	Volume Copy	Volume Copy 8
192.168.150.104	Volume Copy	Volume Copy 9
192.168.150.104	Volume Copy	Volume Copy 10
192.168.150.104	Volume Copy	Volume Copy 11
192.168.150.104	Volume Copy	Volume Copy 12
192.168.150.104	Volume Copy	Volume Copy 13
192.168.150.104	Volume Copy	Volume Copy 14
192.168.150.104	Volume Copy	Volume Copy 15

Summary display at conclusion of Volume Copy operation.

Performance Charts



Real-time performance metrics enables analysis, load balancing and diagnostics.

LUN Masking

LUN mapping assigns LUNs to hosts.

LUN Map

Partition(s) of Logical Volume: LUN ID: 328BEDD11AC47A0E

Visual display of logical volumes and relative sizes.

Alert Notification Options

Notifications distributed widely for maximum visibility.