

ETERNUS SF Storage Cruiser

Advanced management and stable operation for all storage system types

ETERNUS SF Storage Cruiser provides versatile management features for configuration, troubleshooting, performance and correlation.

It makes possible advanced storage resource management and stable operation of storage systems, under SAN, DAS and NAS* environments.

*SAN: Storage Area Network, NAS: Network Attached Storage, DAS: Direct Attached Storage

Key Features

● Configuration management of the entire storage system

The configuration management view shows the status of the entire storage system and physical connections as an intuitive graphical interface.

Icons, representing each device, allow you to drill down to more detailed information (connected ports, etc.), to make installation and system expansion simple and straightforward.



● Access path management for easy SAN implementation and failure prevention

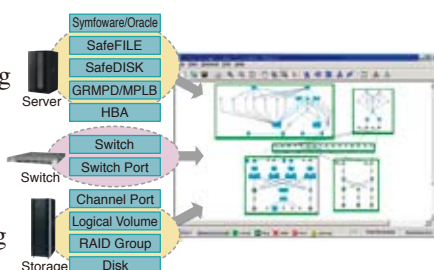
SAN environments require the access paths (logical paths) for connections between server nodes and storage systems to be defined.

Such access paths are based on the security functions of the server nodes, fibre channel switches and storage systems. Storage Cruiser provides centralized management of these access paths, enabling easy setup and consistency verification.

Storage Cruiser automatically notifies the administrator of any problems, such as incorrect security definitions, or access path anomalies caused by faults or unplugged cables. This enables pre-failure detection and service level improvements.

An access path definition feature ensures easy and assured access path configuration. Such paths can be defined and configured just by drawing the relationship diagram.

Moreover, when redefining security settings after replacing parts, such as HBAs, the access path inheritance feature enables automatic inheritance of existing security settings.

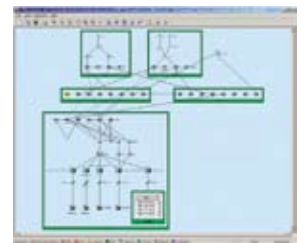


● Correlation management for maximum resource utilization

Storage Cruiser automatically obtains correlation information on server nodes, including physical paths, file systems, multi-paths, mirrored disks and databases.

The correlation management view shows all such information at a glance. The result is an accurate understanding of the correlations between devices, which traditionally has been difficult to obtain. This enables you to perform optimum system expansion and proper failure recovery.

All information can be saved to a file, allowing off-line configuration checking as well as comparison of current configurations with previous ones.



● Performance management for an optimized environment

Storage Cruiser can monitor the performance of managed devices.

Performance information is stored on the administrative server, with both current and recorded information able to be referenced. The performance view graphically displays time series performance information, enabling easy and close understanding of device status and load patterns.

Further, Storage Cruiser provides for threshold monitoring of the managed devices. When I/O traffic exceeds a set threshold value, alerts are displayed in the log window. Such notification is also available via e-mail. Each alert provides the bottleneck point and cause, allowing you to best optimize the configuration.

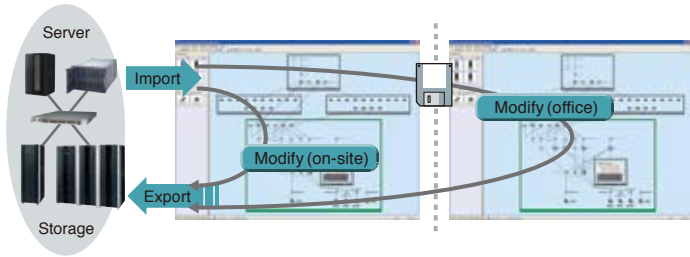


● Storage Volume Configuration Navigator

You can design the right volume configuration within the storage system, on demand, just by applying the capacity and number of volumes. You need not be concerned about differences in product model.

Setup of the access path from business server to the new volume is also simple. In addition, storage system configuration design can be performed off-site and then updated onto the actual system by on-site batch operation.

Because all these operations are easy to execute, using a graphical user interface, your setup operation administration load is also reduced.



● Easy failure recovery

In case of failure of a managed device, Storage Cruiser accurately analyzes the failure.

The correlation management view provides detailed information that identifies the failed part, and detailed path information. This ensures prompt and accurate recovery.

Simple editing of the definition file enables the customization of policies and cooperation in case of a failure. This ensures all prevailing failure management requirements are met.

● Low power consumption

ETERNUS Disk storage system's ECO-mode function uses Massive Array of Idle Disks (MAID) technology to manage the on/off state of the disk drive's spindle motor.

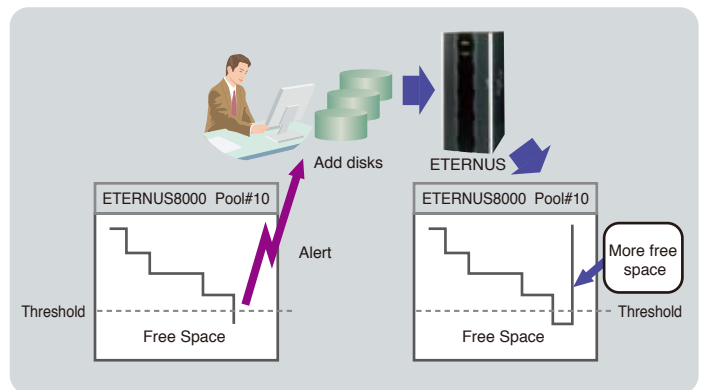
ETERNUS SF Storage Cruiser enables the activity between servers and storage devices to be monitored and displayed graphically when Eco-mode is activated.

ETERNUS SF Storage Cruiser collects and shows data of power consumption and temperature of ETERNUS Disk Storage. You can use those data for optimization of electric source and air conditioning.

● Storage Virtualization

ETERNUS SF Storage Cruiser shows the status of Thin Provisioning Volume and the changes of usage of provisioning pools, and collects related data.

ETERNUS SF Storage Cruiser enables prevention of operation halt by monitoring the threshold of provisioning pools.



Supported Hardware

● Disk Storage system

ETERNUS DX60, ETERNUS DX80, ETERNUS2000
ETERNUS4000, ETERNUS3000
ETERNUS8000, ETERNUS6000

● Tape library

ETERNUS LT210, LT220
ETERNUS LT230, LT250, LT270

● Fibre Channel switch

ETERNUS SN200 (Brocade FC switch)
PRIMERGY BX600 Fibre Channel Switch Blade
ETERNUS VS900

● Fibre Channel bridge

Crossroads 4150, 4250, 4450

● FC-IP router

Brocade Edge M3000 Storage Router

Specifications are subject to change without notice. For the latest detailed information, contact your local representative.

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