STORAGE NETWORK SERVICES: BROCADE ENTERPRISE OS 8.0

STORAGE AREA NETWORK

Achieve Advanced Levels of Efficiency While Protecting Data

HIGHLIGHTS

- Deliver industry-leading diagnostic and security features
- Help you maintain stable, secure and scalable storage networks
- Provide intelligence for improved storage network management
- Utilize industry-standard methodology

Enterprises have always required a high degree of reliability and scalability in their storage networking solutions. But as today's SAN designs grow increasingly complex, simplicity and security become even more important for improving uptime and protecting corporate information.

Brocade® Storage Network Services in Enterprise Operating System (E/OS) 8.0 can help enterprises achieve this advanced level of efficiency while protecting the data that is essential to their enterprise. E/OS delivers comprehensive device intelligence – it can help you diagnose and troubleshoot potential problems and control access to the SAN. Value-added services are also available to further secure and optimize the performance of your storage network.

RELIABILITY

Brocade Storage Network Services provide the engine behind Brocade high-availability environments. HotCAT® non-disruptive code activation, Configuration Backup/Restore and ISL Fencing features ensure that Brocade devices are the most reliable on the market. ISL Fencing maintains the stability of the SAN by taking ports out of operation that pose a risk, protecting the fabric against external failure. Users are automatically alerted when ports are taken out of operation. Using Fabric Diagnostic capabilities to help resolve the problem, the user can then manually re-enable those ports. Features like Zone FlexPar™ partitions allow you to continue to grow your fabric by making device additions less disruptive.

DATA PROTECTION

Data protection and security are essential to any reliable storage network. SANtegrity® Security Suite provides both standard and enhanced security capabilities on all Brocade Fibre Channel products and, coming soon, Brocade IP products. Standard features include securing the connection between management servers and clients and storing user names and passwords in encrypted format.

Enhanced security services, or licensable features, are also available to add an additional layer of security to ports, devices and fabrics through binding, authentication and more.

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PERFORMANCE OPTIMIZATION

Storage networks need to run efficiently to best leverage your port, device and connection investments. Features like Preferred Path and Open Trunking, a licensable feature, ensure that every connection is utilized at the proper levels. Advanced Fabric Diagnostics features help pinpoint problems early on, increasing fabric performance and helping you make adjustments to avoid potential problems.

Efficient management is an important component of optimizing performance. With Brocade Storage Network Services, storage network management tools aggregate, organize and take action. Brocade utilizes standards-based interfaces to relay information to the Brocade SAN management platform, as well as third-party storage management applications.

VALUE-ADDED SERVICES

Value-added services are available as licensable features of Brocade Storage Network Services, including enhanced security and performance optimization features.

Security Software: To help secure your storage network and address federal and state compliance requirements, authentication and binding add additional layers of security to ports, devices and fabrics.

Open Trunking: Optimize the performance of your SAN by load-balancing traffic across all available ISLs. Open Trunking increases useable ports by optimizing current ISL utilization and freeing up more ports for device connections. Through Open Trunking, your organization can lower your total cost of ownership.

FICON™ Management Server: Allows management of the switch via the in-band accessed Control Unit Port, or CUP. This capability is used in mainframe environments where multiple FICON-capable devices are managed by a centralized application.

FICON Control Unit Port (CUP) Partitioning: FICON CUP Partitioning provides even greater management control and security in FICON SANs by isolating access to ports to only those hosts that are zoned with the device. This allows access to resources to be partitioned out to multiple hosts in a flexible manner that is consistent with the zoning configuration regulating device connectivity.

Full Volatility: Ensures that your company's confidential information is not stored on the switch or director. This optional feature is designed to support high security environments where no data may be retained in a power off state. The switch or director is configured so that no frame data is stored after power off.

Node Port Identifier Virtualization (NPIV): Allows a single device port to support many virtual devices, enabling you to run multiple processes on your host. Up to 256 virtual addresses per N_port, can be allocated without impacting the existing hardware implementation. This feature is particularly beneficial in mainframe environments where hundreds of Linux partitions can share a physical channel.

MAXIMIZING SAN INVESTMENTS

Brocade and its partners offer complete SAN solutions to meet a wide range of technology and business requirements. These solutions include education and training, support, service, and professional services to help optimize SAN investments. For more information, contact an authorized Brocade sales partner or visit www.brocade.com.

Brocade Enterprise OS supports the following Brocade devices:

- Brocade M6140
- Brocade M6064
- Brocade M4700
- Brocade M4500
- Brocade M4400
- Brocade M4300
- Brocade M3000 Series (1G and 2G switches)

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