

BROCADE SANtegrity SECURITY SUITE



STORAGE AREA NETWORK

Reduce Risks To Data While Assuring Availability

HIGHLIGHTS

- Zoning
- Binding
- Secure Management Zone
- Role Based Access Control (RBAC)
- Authentication
- Reporting

Training, Audits and Best Practices

Brocade® offers in-depth training, security architecture services and best practices to help you implement a complete SAN security program. We can assist you in defining your needs and implementing procedures and practices to improve the security of your storage network. Contact Brocade today to find out how we can help.

Today's corporate data is characterized by its access. With online banking, shopping, brokerages and more, corporate data is moving beyond the walls of the enterprise and extending to customers and partners throughout the world. To keep up with data access demands, companies are extending their corporate storage networks to the wide area, connecting data to multiple geographically distant locations to share resources and enable business continuity/disaster recovery plans. Although widespread data access has enormous advantages, it also introduces vulnerabilities in the storage network.

Brocade SANtegrity® Security Suite is designed to help your enterprise reduce the risks to its data while assuring its availability. It locks down the fabric, protecting against threats to data security, both internal and external, at every major point of SAN vulnerability.

Security is a tenet of every Brocade solution. Brocade SANtegrity is built into director, fabric switch and software management applications. By enabling the Brocade

SANtegrity Security Suite, your company can improve its data confidentiality, increase system availability and defend against security breaches in the storage network environment.

NEW SECURITY REGULATIONS REQUIRE ADVANCED SOLUTIONS

For many types of companies, including healthcare organizations, financial institutions and enterprises that record and retain personal information, stringent security measures around privacy, access and accuracy of information are now mandatory. The Brocade SANtegrity Security Suite is an essential part of improving your SAN security posture for overall business protection.

RELIABLE SECURITY FEATURES AT EVERY LEVEL

Brocade SANtegrity Security Suite provides a layered SAN security solution to help protect your organization's essential data. The Brocade SANtegrity Security Suite includes both standard and enhanced features. Enhanced features are licensed and sold separately.

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BROCADE SANtegrity SECURITY SUITE – STANDARD FEATURES

Zoning: Brocade SANtegrity features the most advanced zoning technology available today. Brocade provides the strongest zoning through enforcing zone parameters at the ingress port to protect Brocade customers from DoS attacks on the Fabric. Brocade supports all other types of zoning, such as zone member specification by port or WWN, and enforces zoning in the Fabric Name Server and in the hardware of Brocade switches, routers and directors.

Role Based Access Control (RBAC): Brocade SANtegrity supports improved RBAC, or management zoning, which predefines administrators' roles to a group of devices and to management access type for improved reporting, change management, monitoring or definition security settings. This lets you map individual job responsibilities, departments or auditing capabilities to administrators who need access to perform their jobs.

Secure Access: Brocade SANtegrity also features locked down interface management and hardened device operation system for improved system performance on Brocade directors, switches and SAN routers.

Secure Platforms: Brocade SANtegrity also features a locked down software application in Brocade Enterprise Fabric Connectivity Manager (EFCM) and SANavigator®. EFCM and SANavigator now support secure techniques for communication to storage network devices as well as secure techniques for client to server communication that integrate well with standard IP security policies.

BROCADE SANtegrity SECURITY SUITE – ENHANCED FEATURES

Binding: Provides two key benefits for customers. First, binding is a set of features that locks a fabric into an intended configuration. Binding defends against malicious threats such as WWN spoofing for N_Ports and E_Ports as well as enabling two-factor change management processes that improve system stability by locking out physical changes until they are authorized.

Authentication: Authentication is the requirement that each device participating in a storage network proves its identity through the protocols FC-SP, iSCSI, FC-GS, FC-SB and iFCP. Brocade SANtegrity's

standards-based authentication for both FC and IP block-based protocols, as well as in-band management, is the next step in adding incremental security to the SAN.

Security Center: Brocade SANtegrity offers leading security management highlighted by security policy management, application of fabric-wide settings to storage network devices, support of a mediated secret management system and security-centric reporting and logging. The Security Center is an optional module in SAN management software, such as Brocade's EFCM and SANavigator. Security Center provides reports of the storage network configuration, security events and ports or settings that are out of policy to serve as warnings against potential misuse. Reports provide insightful information that limits mistakes, promotes intelligent planning and minimizes the risk of human error.

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.

Information security issues:

- 90% of organizations report that information security is of high importance for achieving their overall objectives (Global Info Sec Study)
- 78% identify risk reduction as their top influencer for information security spending (Global Information Security Survey 2003)
- 40% of application downtime is caused by accidental configuration errors (Gartner)
- 70% of the financial loss due to security breaches results from insiders (FBI)
- Computer security breaches cause \$17 billion in damages every year (Harvard Business Review)

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