BROCADE SAN INFRASTRUCTURE SERVICES

PROFESSIONAL SERVICES

Improving Management in Data Center Environments

HIGHLIGHTS

- Provides a robust data center architecture to meet current and future requirements
- Advises enterprises on how to consolidate, migrate, or expand existing data center environments
- Optimizes Storage Area Network (SAN) performance and helps maximize data and system availability
- Minimizes impact on users during the data center infrastructure assessment, design, and implementation phases
- Leverages Brocade expertise and best practices to reduce the time, cost, and risk of implementing high-performance SAN solutions
- Frees up technical staff to focus on core business activities

The Brocade One™ strategy helps simplify networking infrastructures through innovative technologies and solutions. Brocade Professional Services supports this strategy through assessment, design, and implementation services to help organizations transform their SAN architectures into cloud-optimized data centers.

Today's enterprise data centers must keep pace with explosive growth in Internet users, digital data, and regulatory requirements, as well as business continuity and security concerns. At the same time, the data center must play an increasingly strategic role as a tool for risk reduction, cost control, compliance, efficiency, and maximizing the business value of information. To meet these growing demands, next-generation data centers, virtualized environments, and cloud-optimized networks need to focus on ways to improve storage and data management.

As the industry's leading data center networking solutions provider, Brocade offers end-to-end professional services to help organizations assess, design, implement, and transform their Storage Area Network (SAN) environments. Based on years of practical experience and best practices developed in a wide range of multivendor environments, these services are designed to align with key business requirements while minimizing the impact and cost to the entire organization.

Brocade® SAN Infrastructure Services include:

- Brocade Resident Consultant
- Assessment Services
- Design Services
- Implementation and Management Services

BROCADE RESIDENT CONSULTANT

This service provides onsite expertise to transform existing data centers into next-generation infrastructures to meet current and future requirements. A Brocade Resident Consultant with advanced technical expertise in Brocade products will be onsite throughout the process—from assessment, design, implementation, and management of the SAN environment.

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ASSESSMENT SERVICES

Brocade Assessment Services provide baseline information to accurately scope work, determine risks, and establish an engagement plan within particular technical constraints. These services focus on evaluating the performance, reliability, manageability, and scalability of the data center environment. Whether organizations need to expand, consolidate, integrate, or migrate their SAN fabrics to newer and more advanced equipment, Brocade can provide an assessment of the current environment to identify problem areas, evaluate their potential impact, and recommend improvements. These services include:

- SAN Infrastructure Assessment
- SAN Infrastructure HealthCheck

SAN Infrastructure Assessment

This service is designed to determine the overall effectiveness of an environment. As part of this service:

- A Brocade expert will gather key business and technical requirements, document the history of the environment, and help define an ongoing strategy.
- Brocade will assess the existing design, growth potential, effectiveness, and risk areas within the current environment.
- Brocade will propose best practices to help optimize existing environments, including ways to consolidate, migrate, or expand those environments.
- Brocade will provide a detailed report, an executive presentation, documentation of operational processes, an up-to-date Brocade SAN Health® report, recommendations for improvement, and methods to implement best practices.

SAN Infrastructure HealthCheck

This service provides a health check to help ensure efficient operations. As part of this service:

- A Brocade expert will analyze the health of the environment, identifying items such as the logical and physical topology, device inventory, zoning, bandwidth utilization, and monitoring capabilities.
- Brocade will present the findings to key stakeholders and provide recommendations for best practices.

DESIGN SERVICES

Brocade Design Services focus on minimizing complexity and introducing best practices to optimize environments for current and future requirements. The goal is to transform a tactical operation into a strategic infrastructure that improves efficiency, flexibly supports change, and is highly manageable.

SAN Infrastructure Design

This service focuses on creating a strategic, best-in-class environment. Brocade provides several design options based on factors such as budget, ability to introduce the latest products, and desire to leverage existing assets. As part of this service:

- A Brocade expert will analyze the current environment and develop a preliminary design that includes device naming, zoning architecture, device connection strategy, and topology.
- Brocade will provide design options for leveraging the existing infrastructure, introducing a partial technology refresh or performing a significant technology refresh.
- Brocade will present its findings to key stakeholders, discuss each option, and provide recommendations for a final design that is tailored to unique organizational requirements.

IMPLEMENTATION AND MANAGEMENT SERVICES

Brocade Implementation and Management Services help organizations implement, connect, and manage their environments in the most effective manner. Ongoing monitoring and management are critical to optimizing SAN environments. These services are designed to minimize the time, cost, and risk of deployment and management. Brocade will detail the project scope and prerequisites, the operational impact, resource utilization, and the risk/mitigation plan. Upon completion of the implementation, Brocade documents the new environment. These services include:

- Brocade DCX®, Director, and Switch Implementation Service
- Extension Implementation Services
- Encryption Implementation Services
- Brocade DCFM Implementation Service
- Brocade DCFM Migration Service
- Brocade Network Advisor Implementation Service
- SAN Infrastructure Migration Service

Brocade DCX, Director, and Switch Implementation Service

This service is designed for organizations that need assistance installing Brocade data center backbones, directors, and switches into new or existing Brocade Fabric OS® fabrics. As part of this service:

- A Brocade expert will configure each device based on best practices and specific environmental needs to ensure that the device is ready for implementation.
- As appropriate, Brocade will upgrade the Fabric OS level.
- Brocade will install the data center backbone, director, or switch and validate zoning, functionality, and required components.

Extension Implementation Services

As part of these services, a Brocade expert will assess the network and application environment, provide an estimated throughput of the extension link, and verify that requirements align with the available capabilities and resources. Brocade will then implement the specific configuration for connections between SAN fabrics. These services are designed to connect mainframe or open systems with SAN environments through the FICON® and FCP protocols. These services include:

- Brocade Advanced FICON Implementation Service: Helps organizations implement extension switches and blades using Adaptive Rate Limiting, FCIP Trunking, Quality of Service (QoS), Advanced Accelerator for FICON, FICON Management Server, cascaded FICON, and by monitoring test traffic over FCIP.
- Brocade Advanced FCP Implementation Service: Helps organizations implement extension switches and blades using FCIP Trunking, Adaptive Rate Limiting, and FCIP Quality of Service.

Encryption Implementation Services

These services help organizations implement their management, encryption, and security solutions to meet compliance and regulatory requirements for encryption of data-at-rest. Brocade will configure and implement encryption solutions based on best practices and the organization's unique requirements. These services include:

- Brocade Encryption Switch Implementation Service: Helps organizations implement encryption switches and blades using standardized multi-step implementation processes in standard or high-availability environments.
- Thales Encryption Manager for Storage Service: Helps organizations implement the Thales Encryption Manager for Storage (TEMS). The TEMS key manager stores and manages encryption keys for each Brocade encryption switch and blade across an enterprise. Each TEMS key manager is designed for enterprise-class availability and security.

Brocade DCFM Implementation Service

This service is designed to centralize management for multiple SAN environments, enabling organizations to monitor and maintain their SANs as part of their regular operations. As part of this service, Brocade will install Brocade Data Center Fabric Manager (DCFM®), then connect and configure the devices to centralize management.

Brocade DCFM Migration Service

This service is designed for migrating existing Brocade Fabric Manager or Brocade Enterprise Fabric Connectivity Manager (EFCM) environments to Brocade DCFM. As part of this service, Brocade will install DCFM, identify all devices to be monitored, migrate the existing data, configure all zones, and verify the migration.

Brocade Network Advisor Implementation Service

This service helps organizations configure and optimize their management environments. Brocade will first perform a SAN discovery to identify all SAN infrastructure, server, and storage devices to be monitored. Next, a Brocade expert will set up user and group access controls, and configure all zones. As a final step, Brocade will verify the implementation, provide reference documentation, and perform a knowledge transfer.

SAN Infrastructure Migration Service

When organizations want to consolidate environments or move from one environment to another—including vendor changes—Brocade can plan, execute, and validate the migration. As part of this service:

- Brocade will identify the supported migration path and potential levels of disruption.
- Following best practices, Brocade will assess the source environment and develop a plan for migrating devices.
- Brocade will manage the interoperability between fabrics to ensure a smooth migration.
- Brocade will validate the functionality of the new environment.

MAXIMIZING INVESTMENTS

To help optimize technology investments, Brocade and its partners offer complete solutions that include education, support, and services. For more information, contact a Brocade sales partner or visit www.brocade.com.

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