

BROCADE IP NETWORK INFRASTRUCTURE SERVICES OVERVIEW



PROFESSIONAL SERVICES

Optimizing IP Network Infrastructure

HIGHLIGHTS

- Leverages Brocade in-depth networking expertise to help organizations build high-quality networks
- Strengthens existing networks by identifying and resolving problem areas
- Maximizes network bandwidth by optimizing data traffic flow
- Enables the transformation to a dynamic, next-generation IP network infrastructure to meet current and future business requirements
- Accelerates deployment of network-based applications and technologies to increase productivity
- Offers a tailored networking solution to meet the specific needs of the organization
- Frees up staff to focus on core business activities

Today's organizations have increased demands on their network infrastructures, requiring higher levels of performance, availability, and mobility to take advantage of new IP-based technologies. The migration of voice and video to IP networks, for instance, presents new challenges that are revolutionizing the way networks are built and managed.

Similarly, new network-based business applications and processes that improve collaboration and productivity—along with the dramatic growth of wireless networks and mobile devices such as smart phones, IP phones, and point-of-sale devices—all require higher levels of network performance. Moreover, consolidation and virtualization initiatives are further driving the need for higher network scalability.

To increase efficiency and reduce costs, these organizations need intelligent networks that effectively utilize available bandwidth capacity, manage data traffic flow, and ensure network security.

Organizations that plan to build next-generation networks can benefit from best practices and expertise to address these critical requirements.

As the industry's leading data center networking solutions provider, Brocade® has the experience to help organizations deploy highly scalable, highly reliable, and high-performance next-generation network infrastructures.

Brocade offers end-to-end services that help organizations:

- Design best-in-class network environments with flexibility for future growth
- Optimize network performance to address increased data traffic and data growth
- Implement best practices to optimize network configuration and management
- Protect investments in existing networks
- Utilize leading-edge technologies and deep technical expertise to build sustainable next-generation networks

BROCADE

Brocade IP Network Infrastructure Services include:

- Assessment Services
- Design Services
- Implementation Services
- Migration Services

ASSESSMENT SERVICES

Organizations interested in optimizing their current environments or implementing new networking solutions should first analyze their existing network infrastructures, along with their current and future business requirements. Brocade Assessment Services can help organizations identify any specific needs and potential problem areas. These services include:

- IP Network Assessment
- IP Network HealthCheck

IP Network Assessment

This service is designed to help organizations assess their readiness for building a next-generation network. As part of the assessment, Brocade experts will:

- Review network architecture and design for performance, availability, security, and manageability
- Evaluate network infrastructure, applications, cabling, and router and switch configurations
- Review application performance goals and problem areas
- Evaluate network performance, including traffic patterns, bandwidth optimization, Internet connectivity, and network vulnerabilities
- Evaluate network security, including compliance issues and best practices
- Perform an IP Network HealthCheck
- Review operational processes and staffing needs
- Review overall readiness to meet the requirements of a next-generation networking solution

At the conclusion of this service, Brocade will provide a detailed IP Network Assessment Report, present the findings, and discuss recommendations and next steps.

IP Network HealthCheck

This service utilizes several capacity and performance tests to identify potential problem areas and to help organizations maximize the value of their networks. As part of the health check, Brocade experts will provide:

- A workshop session to better understand the organization's environment
- A series of capacity and performance checks:
 - The capacity check evaluates network utilization, availability, and scalability.
 - The throughput check captures the actual speed of transfer versus design specifications.
 - The data transfer throughput check measures how quickly data is transferred across the network.
 - The file transfer throughput check gauges how frequently packets are retransmitted and examines route and packet transfer throughout the network, including the number of hops and paths made in the transfer of data.

Upon completion, Brocade will provide a detailed IP Network HealthCheck Report, present the results, and discuss recommendations and next steps.

DESIGN SERVICES

After analyzing their unique requirements, organizations can begin planning for new networking solutions. Brocade Design Services help these organizations develop practical design plans that best match their budgets and schedules. These services include:

- IP Network Design

IP Network Design

Brocade IP Network Design Services offer several design options tailored to organizations' specific needs, whether they need to introduce a partial technology refresh to leverage their existing network

infrastructure, or would like to perform a significant technology refresh. As part of this service, Brocade experts will:

- Review any IP Network Assessment results
- Provide design options for leveraging existing infrastructure through a partial or significant technology refresh in areas such as:
 - VPNs
 - Converged networks (voice and video over IP, FCoE)
 - Quality of Service (QoS)
 - Network security
- Identify and communicate resolution needs for any potential implementation gaps or risks
- Create a plan to guide implementation
- Present the final network design plan

IMPLEMENTATION SERVICES

With a final design in place, organizations can begin refining their existing network infrastructures or building new infrastructures. Brocade Implementation Services provide unmatched expertise in helping organizations install, configure, and validate Brocade networking solutions. These services include:

- IP Network Implementation

IP Network Implementation

This service leverages Brocade expertise to help organizations implement their Brocade network devices. As part of this service, Brocade experts will:

- Review design requirements
- Mount equipment into the prequalified rack
- Install all physical connections
- Test power and interfaces
- Load static IP addresses
- Configure and validate new devices
- Identify connection points
- Set compatibility parameters
- Integrate new Brocade devices per the defined connection
- Perform a post-implementation validation
- Perform a knowledge transfer

MIGRATION SERVICES

Brocade understands the critical requirement of migrating network infrastructure in the most timely, secure, and efficient manner. Brocade Migration Services provide deep technical expertise and best-practice methodologies to make migration as simple and non-disruptive as possible. These services include:

- IP Network Migration

IP Network Migration

This service helps organizations ensure a safe and efficient migration from their existing networks to Brocade networking solutions. As part of this service, Brocade will:

- Draft a schedule and a deliverables list
- Identify and interview key organizational personnel
- Gather technical requirements
- Identify migration prerequisites
- Develop and submit for approval a detailed migration schedule and plan, including contingencies and migration validation
- Perform the migration
- Perform a post-migration validation
- Perform a knowledge transfer

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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