

Brocade IP Network Infrastructure Services

HIGHLIGHTS

- Leverages Brocade in-depth networking expertise to help organizations build high-quality network solutions
- 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 tailored design and deployment of networking solutions that meet the specific needs of the organization

Designing, Building, and Deploying IP Network Infrastructures

Today's organizations have increased the demands on their network infrastructures, requiring higher levels of performance, availability, and scalability to take advantage of new IP-based technologies. 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.

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
- Deploy carrier and service provider, enterprise and campus, data center, and converged Layer 2 through Layer 7 infrastructure

- Implement best practices to optimize network configuration and management practices
- Protect investments in existing networks
- Utilize leading-edge technologies and deep technical expertise to build sustainable and highly-available next-generation networks

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.

This service utilizes capacity and performance tests to identify potential problem areas and to help organizations maximize the value of their networks or 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, application delivery, interconnectivity, router and switch configurations, and performance/asset management
- 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 a Brocade NET Health check
- Review network operational processes and relevant staffing needs
- Review overall readiness to meet the requirements of next-generation networking solutions

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

Design Services

Brocade Design Services help organizations develop practical design plans that best match their budgets and schedules. These services offer several design options tailored to an organization's specific needs, whether it needs to introduce a partial technology refresh to leverage its existing network infrastructure, or would like to perform a significant technology refresh. As part of this service, Brocade experts will:

- Review any IP Network Infrastructure Assessment results
- Review NetHealth, Brocade Network Advisor, or other third-party tool output or reports for current infrastructure audit data
- 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 (VoIP), virtualization, FCoE)
 - Quality of Service (QoS)
 - Application delivery
 - Global SLB
 - Network management and performance monitoring and reporting
 - 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 in support of new applications, services, locations, and more. Brocade Implementation Services provide unmatched expertise in helping organizations install, configure, and validate Brocade networking solutions. This service may include:

- Review design requirements
- Document and qualify hardware
- Verify power and test interfaces
- Apply code updates as needed
- Configure and validate
- Identify connection points
- Set compatibility parameters
- Integrate new Brocade devices per the defined connection
- Install and configure Brocade Network Advisor (BNA)
 - Discover and model infrastructure
 - Populate and perform functionality verification of sub-applications
 - Configure sample sFlow collections
 - Configure security and role-based access control
- Perform functionality validation
- Perform a knowledge transfer
- Provide as-built documentation

Optimization Services

Continuous improvements for tuning and optimizing your network design, anticipating future needs, and reducing your CapEx and OpEx costs are provided by Brocade Optimization Services.

Changes in business direction, new technologies, and increased customer demand require network maintenance to be adaptable after a successful deployment. The ability to proactively evaluate and take corrective action to maximize network performance on an ongoing basis is critical. As part of this service, Brocade experts will:

- Perform regular NET Health assessments
- Review device configurations
- Apply Brocade best practices
- Review monitoring and alerting policies
- Tune and optimize BNA configurations and settings
- Review performance analytics

Consultants will recommend or implement changes based on the above to ensure the network is continuously tuned and optimized based on current and anticipated demands.

Transforming Networks with Brocade Experts

Brocade consultants have access to a vast Brocade knowledge base, including the product expertise, engineering expertise, and all Brocade documentation required to implement proven configurations.

Brocade consultants are Brocade-certified and have many years of hands-on experience delivering network solutions. The valuable transfer of knowledge that Brocade consultants bring to the organization's staff can reduce risks and disruptions while optimizing network performance.

Brocade delivers expert advice to help avoid costly mistakes and delays by identifying and actively managing risk factors related to integration, migration, cutover, and management of the enhanced network infrastructure. The core competencies of Brocade consultants include new technology deployments, migrations, architecture design improvements, tuning, optimizing, network error interpretations, documentation, and training. Brocade consultants provide peace of mind and confidence in the planning and execution of network transformations.

Brocade Resident Consultant

Brocade also offers residency services that provide organizations with expert guidance for transforming existing data centers into next-generation infrastructures to meet current and future requirements. A Brocade Resident Consultant—a trusted advisor who is a Brocade Certified Professional—will be part of the organization's team throughout the length of the engagement.

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 <http://www.brocade.com>.

For more information about Brocade Professional Services, visit www.brocade.com/professional-services.

Brocade IP Network Infrastructure Services Ordering Information

Product SKU	Description
IMPL-CESR-2	Implementation of up to two CES/CER devices in a single location.
IMPL-CESR-ADD2	Implementation of an additional two CES/CER devices at the same location.
IMPL-IP-EDGE-2	Implementation of up to two FastIron/ICX fixed-form switches in a single location.
IMPL-IP-EDGE-ADD2	Implementation of an additional two FastIron/ICX fixed-form switches at the same location.
IMPL-MLXE-T1-2	Implementation of up to two MLXEs at a single site (limited to 4/8-slot models).
IMPL-MLXE-T1-A2	Implementation of an additional two MLXEs at the same location (limited to 4/8-slot models).
IMPL-MLXE-T2-2	Implementation of up to two MLXEs at a single site (limited to 16/32-slot models).
IMPL-MLXE-T2-A2	Implementation of an additional two MLXEs at the same location (limited to 16/32-slot models).
IMPL-REM-MLXE-T1-1	Remote implementation of up to two MLXEs at a single site (limited to 4/8-slot models).
IMPL-REM-MLXE-T1-A1	Remote implementation of an additional two MLXEs at the same location (limited to 4/8-slot models).
IMPL-REM-MLXE-T2-1	Remote implementation of up to two MLXEs at a single site (limited to 16/32-slot models).
IMPL-REM-MLXE-T2-A1	Remote implementation of an additional two MLXEs at the same location (limited to 16/32-slot models).
IMPL-BNA-IP-1	Implementation of Brocade Network Advisor application for IP networks. Includes device discovery and basic verification of BNA functionality.
PS-TAAS-IP	Testing-as-a-Service (TaaS) engagements for IP network augmentations.
ADC-HEALTHCHECK-2	Health check service for ADC networks.
ASSE-REM-ADC-HLHCK-2	Remote service for verifying configuration and current health and status of an existing pair of Brocade ServerIron/ADX application delivery controllers. This service is for up to two devices (redundantly configured).
IMPL-REM-ADX-APEXP-2	Remote service for adding to and/or expanding the services being supplied by existing Brocade ServerIron/ADX application delivery controllers. Service is limited to up to two devices, at the same location.
IMPL-REM-ADX-HA-2	Remote implementation of a single-site Brocade ServerIron/ADX application delivery controller high-availability design. This service is for up to two devices at a single location, redundantly configured.
IMPL-REM-ADX-HA-ADD2	Remote implementation of up to two Brocade ServerIron/ADX application delivery controllers to a location also receiving the IMPL-REM-ADX-HA-2 service. This service is for up to two devices at a single location.

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