

Network Operations Services

While the network is running, you can concentrate on adding value

Description of the solution

The design, implementation, and maintenance of reliable and highly-available network infrastructure, addressing three crucial aspects of the company's networking environment:

- Network Infrastructure for local users and servers (Solution A)
- Multi-homed redundant connectivity to the Internet (Solution B)
- VPN WAN services over private and public networking infrastructure (Solution C)

Challenges

Networking services are a key enabler for all IT services; accordingly it's imperative for every company to have a reliable, highly-available network infrastructure.

Network related IT challenges are:

- The network is not the customer's core business, IT needs to focus on IT services.
- Staff skills need to be continually updated (training and certification costs) but with low utilization of specialized knowledge.
- Staff locality when managing a network infrastructure across a wide geographical area.



The S&T solution in detail

Solution A: The goal is to build reliable and highly-available network infrastructure for local users and servers.

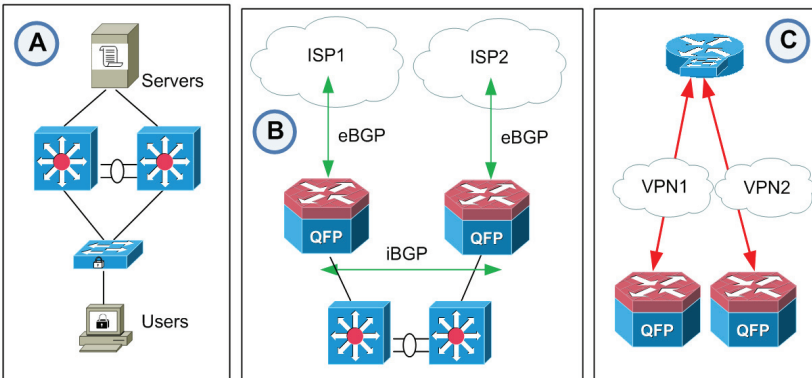
- The core of the network is designed using modern cost-effective best practices and is comprised of redundant Layer3 switches.
- User access switches are dual attached to the core with dual uplinks to provide redundancy.
- The network is segmented into VLANs (role-based, users, servers).

Two configuration levels are possible:

- **BASIC:** Basic Layer 2 (VLAN, STP, Trunk, Channel), Basic Layer 3 (static routing, Inter-VLAN, FHRP, DHCP relay), Basic Security (ACL), and Basic Management (Syslog, SNMP)
- **ADVANCED:** Advanced Layer 3 (dynamic routing, VRF), Advanced Security (L2 Security, FW, IPS, Anti-X, Content, IPSEC), Advanced Services (QoS, SLB) and Advanced Management (integration with S&T Infrastructure Availability Service)

Solution B: The goal is to achieve ISP redundancy (connection to 2 or more ISPs). IPv4 PI (Provider Independent) address space is required. Support for IPv6 is also available.

Solution C: The solution is built with a highly-available pair of central VPN devices for terminating VPN connections from remote sites along with appropriate remote location VPN devices.



Business benefits

Solution A:

- Reliable and highly-available network infrastructure
- Network segmentation (VLANs, IP scheme)
- Support for modern server infrastructure (10Gb, Blade enclosures) and services (IP telephony, prioritization, converged infrastructure)

Solution B:

- Support for critical applications (e-banking, portals, e-shop)
- Improved Internet connectivity for the company
- Reliability and load balancing

Solution C:

- Secured access for remote users to the central location
- Reduced WAN costs
- Flexibility and reliability

All Solutions:

- 24/7 availability and proactive administration
- Predictable cost
- Cost efficiency
- Guaranteed service level and quality
- Reduced risk

Project development

1. Assessment of the existing network infrastructure
2. Network Design and Initial installation (optional, if new infrastructure must be built)
3. Service Transition to S&T
4. Integration with the S&T Infrastructure Availability service or Network Monitoring and alerting services (mandatory)
5. Operational Management (Documentation, Administration, Configuration, Monitoring)
6. HW Maintenance, upgrading and OS patching

Experience – a crucial factor in operations services

As a leading company in the region, S&T has a long tradition, wide experience, and has obtained the highest available partner status from leading manufacturers of network solutions. With its highly experienced and certified professionals (engineers with CCIE, CCDP, CCNP, CCSP certifications) and information security (ISO 27001) certified processes S&T operates and maintains numerous complex system environments. S&T additionally covers all other infrastructure areas that interact with the network: databases, backup, data storage, operating systems, and monitoring solutions, providing complete solutions for your IT infrastructure requirements.



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