

CUSTOMER USE CASE: SD-WAN

globalgig

Orchestrating Hyperconnectivity

Business Challenges

The company is in the process of modernizing their network infrastructure and has a number of initiatives to accomplish this goal. They desire a complete solution to improve network performance, redundancy, manageability, availability while enhancing security. Current operation is dependent on their infrastructure to deliver services to their end-users and needs a complete transformation of this network. The proposed solution must overcome the limitations of their current design and incorporate:

- Carrier access independence to improve flexibility and efficiency
- Software Defined Networking capabilities
- Network resiliency to maximize business continuity
- Incorporate 4G LTE wireless connectivity for failover and redundancy, paving the way to incorporate 5G in the coming years

Globalgig Methodology

Globalgig's methodology for successful WAN deployments begins with the Discovery Phase. Globalgig's engineering team deployed a NetFlow-based analysis tool where application traffic can be analyzed, and baseline performance are recorded. This analysis allowed the Globalgig team to define local policy, application aware routing policies and failover behavior. Globalgig also reviewed other network behaviors to ensure that the design and proposed solution will successfully meet defined business objectives. Globalgig engineers collected network flow information at the data center locations and a select group of branch and corporate sites. Globalgig also performed interviews with company stakeholders and end-users to ascertain and document success criteria and desired outcomes.

Globalgig Solution

After evaluating company requirements against multiple SD-WAN platforms, Globalgig implemented a solution concept based on Fortinet. Throughout the project design and implementation process, Globalgig organized and managed design workshops to create the high-level design with key stakeholders, the delivered detailed design documentation for final approval. The project was implemented in 2 main phases:

- Phase 1: inserting high-available FortiGate appliances into Client locations as well as into AWS and Oracle's IaaS cloud environments. This phase also included the FortiGate insertion into the backup data center
- Phase 2: deployed FortiGate appliances at branch offices and integrated into the new security fabric where the design and engineering teams optimized and documented onboarding process for the remaining and future SDI branch offices.

As part of the Statement of Work (SOW), Globalgig provided a dedicated project manager and a project engineer to deliver Day-1 implementation support. Globalgig's engineering team also project managed the cutover for upgrading WAN connectivity at each datacenter or office as it applies to the SDWAN deployment.

Customer Benefits

- Network transformation to a high-availability SD-WAN network
- Improved access security to business systems hosted at the data centers
- Enhanced network and content security, with one platform to take advantage of shared intelligence
- Improved efficiency and manageability of overall infrastructure
- Reduced network service expenses
- End-to-end network transformation solution from design to project implementation and management

Industry

MRO Supply Chain Solutions

Company

This 45 year-old Supply Chain As-a-Service provider takes the bigger view of the MRO supply chain. The company delivers value by demonstrating to clients how to take a streamlined, efficient and scalable approach to building an integrated supply chain that ensures MRO optimizations. By helping organizations understand how each link in MRO supply chain impacts the entire enterprise, this leading solutions provider enables their clients to operate with lower cost, improved inventories and increase performance.

For many of its clients, a holistic approach to MRO is a totally new paradigm. Savings driven by piece-meal implementations have resulted in runaway costs, obsolete inventories and rising administrative expenses. This fragmented approach, with multiple departments and conflicting agendas, creates an environment with no central accountability, no enterprise-wide visibility, and no consistency.

Helping clients achieve a more connected, coordinated and optimized MRO process has made this company one of the recognized leader in MRO supply chain services in North America, with installed programs at over 1500 facilities.

