

Supplier and Manufacturing

Case Study



Case Study

The customer is a large supplier and manufacturing company located nationally and internationally. They were faced with deciding whether to bring their international sites onto their corporate MPLS network in the United States, which could take considerable time and could be very costly - or find another solution that could bring together all of their locations for a cohesive WAN & security solution, and access to the company ERP which is located in a data center in the US. The customer sought a partnership with Corporate Technologies Group to help them consolidate their infrastructure in the United States and internationally and take ownership of their entire IT footprint, strategy, and management.

Challenge

The first challenge that CTG faced as the project was beginning was a bandwidth discrepancy on the network between the headquarters and the data center. Using network monitoring tools, CTG's technical staff verified that there was an issue achieving the stated bandwidth of their current provider. CTG used software to map out the current network and systematically track the route that data traversed through the network, checking each interface that data passed through for data loss or Quality of Service (QoS) queuing issues. Once that was located CTG was able to use a demo license to up the throughput and the bandwidth the became regulated.

Solution

CTG worked with the customer to find all of the issues plaguing their infrastructure, and proposed new solutions to solve these problems. The first step in the overall solution is to install both a primary and secondary circuit, utilizing both coax and fiber dedicated internet access connections, at all of their domestic locations. In order to have a reliable redundant solution, CTG proposed SD-WAN be installed at each of the domestic sites first, then expand to the international sites after the first step of the project is completed. SD-WAN, or software-defined wide area network, can reduce latency, jitter, and packet loss, as well as create a failover solution if the primary internet circuit were to go down. SD-WAN also provides secure connections between sites and reduces complexities while optimizing traffic to provide prioritization to the mission-critical applications needed by the client's business demands. This solution also extended to their mobile users to ensure security and performance for their field users as well.

Result

Corporate Technologies Group was able to assess the company's current MPLS network, evaluate an SD-WAN solution for both domestic and international locations, and provide options for better bandwidth performance. An all-encompassing security solution was proposed by having security endpoints at every location. This solution also extended to their mobile users to ensure security and performance for their field users as well. Overall, Corporate Technologies Group was able to provide quality of services, or QoS, while reducing high technology expenditures and increasing overall network performance.

Issues

- Historically Decentralized Policy
- Limitations of Technical Staff
- High Technology Expenditure
- Outdated Technology
- Lack of Tools to Troubleshoot Problems

CTG Solutions

- Better Throughput
- Redundancy
- Network Management is More Efficient
- Reduce Expenditures
- All Encompassing Security Solution