



Major Financial Institution Design and Implementation Project Summary

The challenge

After a major financial lending institution had added an acquired Data Center to its network, Chesapeake NetCraftsmen was engaged to provide support for the integration of the Data Center into the existing network. The client provided all necessary equipment and facilities, including timely access to existing network devices and off-line sample devices for the purpose of developing configurations.

The Chesapeake NetCraftsmen solution

We assisted with the design and implementation of the relocation of services to the newly added alternate Data Center, which included:

- High availability and redundancy,
- Physical location within data center and rack
- Physical cabling between devices
- Logical connectivity between devices
- Logical or software configuration of each device

Chesapeake NetCraftsmen performed each of the above services for:

- Proposed network design for the new Data Center, including details of redundant OSI Layer 2 LAN and Layer 3 LAN/WAN networking
- Content Delivery Components (Web cache and load-balancing devices, SSL offload devices, and similar devices)
- Access network design – how the Data Center was to be integrated with the rest of the client's enterprise MAN
- Design for high availability applications and servers, maximizing use of current servers, including mainframe, mid-range, and SAN devices
- Overall design considerations, such as providing maximum service availability, pros and cons compared to the other alternatives
- Disaster Recovery analysis, including recommendations on locations of servers and services, as well as geographic and other load-sharing, mirroring, fail-over and prevention/recovery techniques
- Contingency Planning for reconfiguring the network, data centers, and servers to provide services in response to each contingency
- Security Risk Analysis to ensure the proposed network is highly secure and protected from risk of outage

Chesapeake NetCraftsmen also addressed:

- Cable management strategies and techniques
- Migration of services to the new facility (sequence of tasks, task details, costs) while continuing to provide service
- Recommendations on providing higher levels of access, network, application, and/or server availability, along with costs and migration plan to reach the new configuration from current configuration

The results

After three weeks of working with the client, a successful completion of the entire task had been met according to the client's needs and well ahead of their timelines. As a result, the client engaged Chesapeake NetCraftsmen to provide consulting services for a large IP Multicast implementation project.