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consilium1

## Data Center & Networking: Network Infrastructure Redesign Project

A complete **infrastructure overhaul** was in order at a major healthcare provider. **Our response:** we assessed, designed, and implemented an entire **network solution** that significantly reduced network traffic and rendered the **Help Desk** a very quiet place. | **Problem solved.**

Our client is a parent corporation overseeing the operation of six affiliate health care organizations on a variety of campuses in Ontario and Livingston Counties in Western New York. Comprised of a medical staff of more than 300 physicians, a community volunteer group with over 400 members, and 1,400 Associates, provides quality health care to more than 120,000 residents and their families in the Greater Finger Lakes Region.

### PROBLEM

The consilium1 team was brought on to help the healthcare provider with the following challenges:

- Complete infrastructure upgrade was needed.
- Remote locations connecting to a centralized data center.
- Replication and dissemination of mission-critical information to remote sites. Most notably, email, Meditech (electronic medical records), dictation software and file synchronization, and file and print sharing.
- Productivity considerations and user experience enhancements. Improve connectivity that will eliminate inefficient human resource utilization and create a more positive working environment.
- Equip infrastructure to support future technology applications and data requirements. PACS, VoIP, and more.

### SOLUTION

The c1 team addressed the challenges facing our client with the following:

- Complete redesign and modernization of network infrastructure.
- Cisco Wide Area Application Services (WAAS) and Metro Ethernet (6mb/sec). This resulted in a perceived bandwidth speed of 37 – 45mb/sec by the end user.
- Incorporated network redundancy into the architecture. Utilized low-cost broadband as well as WAAS as a fail-over in case of WAN failure, improving our client's disaster recovery status dramatically.

### RESULTS

The measures implemented by the c1 team produced impressive outcomes for our client, including:

- Significant improvement of end user experience. This includes a considerable drop in Help Desk issues on network performance.
- Substantial reduction in network traffic:
  - Wide Area File Services (WAFS): 90% reduction
  - Enterprise Applications: 75% reduction
  - Printing: 70% reduction
  - Directory Services: 65% reduction

### PARTNERS



For more information about c1, visit [consilium1.com](http://consilium1.com), call us 1-866-631-5494, or contact us at [sales@consilium1.com](mailto:sales@consilium1.com).