

Core Network Infrastructure Upgrade

Major Regional Hospital



BUSINESS PROBLEM

A major regional hospital was challenged with numerous network core issues that were affecting growth, performance, and technical vision. Specific challenges included:

- No existing 10Gb capability for storage, voice, wireless, and IDF uplinks
- Lack of redundancy put critical applications and user workloads at risk
- Multiple switches participating in core services caused lack of delegated roles, no clear policy instantiation, and extended convergence times
- Multiple stacks caused topology sprawl and increased troubleshooting time and operational maintenance



PROJECT OVERVIEW

GreenPages reviewed the existing hardware and topology, as well as business drivers and IT objectives, and recommended, designed, and implemented a core network solution that:

- Centralized services such as routing, access control, and switch aggregation
- Increased total throughput capability at the backplane and uplinks (10/40Gb)
- Cleaned up and provided cable management for core and closets
- Accounted for future growth for port density and bandwidth capacity



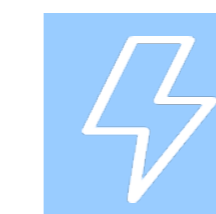
COST IMPACT

- Future proofed expenditures by building in 10Gb/40Gb capability
- No cost for additional customer licenses such as NAC or Prime by enabling Cisco ONE



RISK IMPACT

- Reduced risk with data and power redundancy for all switches and ports in new stack
- Centralized point for security policy instantiation, such as NAC, Network Access Control
- Ability to add new switches with range of port types without disruption to production



SERVICE IMPACT

- Simplified troubleshooting and maintenance with topology simplification through consolidated core
- Improved performance with 480Gb backplane
- Increased uptime with redundant systems