

ADVANCED NETWORK DESIGN



CSC
NORTH AMERICAN
PUBLIC SECTOR

Benefits

- Diagnose operational enterprise architecture problems before they impact your business
- Optimize your existing infrastructure to meet performance needs while saving money
- Predict performance impacts of system upgrades and vendor solutions before procuring new equipment

The CSC Design Advantage

- The latest network modeling tools and techniques - including simulation and emulation
- Full support of the CSC Enterprise Network Managed Services Center of Excellence as a network test bed
- CMMI Level 3 and ISO 9000 Certified network design process

IT Infrastructure Solutions

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Designing and optimizing networks today is more complex than ever. Enterprise applications, web services, network convergence, managed services and advanced security present new challenges to organizations and system integrators when designing high performance networks to meet business and mission needs.

Customers face these challenges with tight budgets and must try to get the most from their existing infrastructure investments as they upgrade their networks to deploy VoIP, ERP applications, and new wireless technologies. CSC's advanced network design services are focused on helping our customers overcome these challenges.

Design Tools for Today's Network Challenge

CSC offers its customers world-class engineering services to help design and optimize new and existing networks to support enterprise applications and convergence. CSC is prepared to assist our customers make the leap to managed services and converged networks with state-of-the-art design tools and our Enterprise Network Managed Services Center of Excellence (ENMS COE)—dedicated to the analysis and design of high performance networks.

CSC's ENMS COE is equipped with the latest design and testing tools. In addition to traditional simulation products like OpNet, CSC employs the TeleniX network emulation tool to develop high fidelity models of proposed network designs. Network emulation models provide real impact of protocols and device configurations by running instances of the actual in your network.

Through emulation, we can demonstrate the impact of a network design on user response time and application performance over a wide range of network loads and bandwidth.

Our methodology, tools, and COE eliminate guesswork from network installs and upgrades. They allow us to produce designs that will deliver the performance and ROI customers expect from their networks. Rather than throwing bandwidth and equipment at network performance problems—CSC's Advanced Network Design capability helps customers achieve the desired business results while getting the most out of tight IT budgets.

CSC's experienced staff has worked extensively with the FCC. We've negotiated channel swaps with Nextel and worked extensively with all the radio equipment manufacturers and vendors. We've done frequency planning, and we understand your business and environment.

We understand you can't accept downtime or a complex transition. CSC's 800 MHz Rebanding Service will work for you.

Virtual Emulation Environment

- Create high-fidelity "replica" of enterprise architecture
- Use "complete" and "conforming" implementations of protocols
- Configure nodes to match real-world configurations
- Observe packet data flow with proper protocol encapsulations
- Support system from concept to operations with a single model

State-of-the-Art Network Test Bed

- Evaluate vendor solutions using a disciplined methodology and a controlled technology lab environment
- Integrate real equipment and applications with network emulations to give accurate feedback of real time performance to the user's desktop
- Test and validate proposed designs prior to roll-out

Business/Mission Value

- Support carrier-class IP-based infrastructure
- Get unprecedented look into operations of IT infrastructure
- Emulate real-world operational what-if scenarios
- Plan network for increased service demand and new services
- Test upgrades before deployment