



Secure Telecommunications

A CSC CENTER OF EXCELLENCE

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CSC's Secure Telecommunications Center of Excellence designs, develops, integrates, tests and evaluates both secure and non-secure state-of-the-art telecommunications networks, applications and devices. The more than 200 TS/SCI-cleared engineers and telecommunications specialists at the Center have extensive experience in the design, development and evaluation of telecommunications systems for the U.S. intelligence and defense communities.

Services provided by the Center include:

- Comprehensive engineering of communications systems, including local area networks (LANs) and wide area networks (WANs)
- Communications control center automation, with emphasis on the integration and enhancement of commercial off-the-shelf (COTS) network management and configuration management systems in standards-based multimedia environments
- Communications software engineering, including development of customized and standards-based communications modules and sub-systems, and their integration, to support enterprise-wide communications upgrades, corporate reengineering efforts and major system conversions to the distributed client-server model
- COTS hardware and software evaluations
- Independent verification and validation of communications hardware and software
- Systems engineering, systems integration management, security engineering and technical support
- System deployment, training, long-term logistics support and depot maintenance (e.g., bar code scanners)
- Integration of new technologies into existing infrastructure

CSC's Centers of Excellence enable exploration and testing of state-of-the-art solutions with minimum up-front investment and maximum innovation and results. Each Center has designated staff who work from a dedicated facility equipped with a laboratory for demonstrating and delivering client solutions and evaluating and testing products, methodologies and concepts.

Benefits from leveraging the Center include increased:

- End user and customer satisfaction and confidence
- Completeness of network design prior to installation
- Use of standardized and verified equipment configurations
- Availability of baseline performance metrics
- Vendor responsiveness
- Focus on testing tailored-to-customer requirements
- Efficiency and effectiveness in utilization of test resources



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Resources

The Center's engineers have expertise in a wide range of areas including: ATM, SONET, DWDM, ISDN, 10/100/1000 Mb Ethernet and encryption. Center engineers possess a thorough understanding of TCP, UDP, SMTP, SNMP and related IP protocols. Center engineers also have expertise in continuity of operations, mission assurance and distributive architectures to enhance survivability in support of U.S. Homeland Security initiatives.

The Center maintains lab facilities for testing and evaluating voice and data telecommunications equipment, software and solutions. The Interface and Integration Test Lab evaluates and demonstrates both LAN and WAN technologies. The lab can be reconfigured to match specific customer needs as well as demonstrate generic capabilities. It can model a variety of government and commercial networks.

A separate, unclassified portion of the lab is set up to examine new vendor products and integrate them into existing infrastructures. The lab is also ideal for demonstrating and evaluating new infrastructures and testing them prior to fielding. Vendors frequently offer to provide their newest products for integration into the lab, enabling customers to see early on how those products can support new and evolving architectures.