

Network Engineering

Technica designs, implements, and supports network engineering solutions from legacy to next-generation to optimize performance and ensure security, stability, availability, and scalability for our customers. Our engineers are high level technical specialists in Local Area and Wide Area Networking (LAN/WAN), with in-depth network engineering experience to support a broad range of legacy, mature and advanced network equipment and work within the protocols and architectures utilized in secure federal networks.

We were instrumental in the development and deployment of the Global Information Grid (GIG) and the Defense Information Systems Network (DISN), the primary network infrastructure of the Department of Defense (DoD). When DoD envisioned OC-192 optical network upgrades for the GIG capable of providing “a color (or optical wavelength) to every base,” Technica developed the Functional Requirement Specification (FRS)—the authoritative design blueprint for the expansion and performed testing and technical evaluation of networking equipment.

Our Network Engineering Services:

- ▶ Local Area and Wide Area Networking (LAN/WAN)
- ▶ Global Information Grid (GIG) Computing Services
- ▶ Information Assurance
- ▶ Network Operations (NetOps)
- ▶ Situational Awareness (SA)
- ▶ Virtualization Systems

Technica®

We provide the network operations (NetOps) engineering expertise our customers require to enhance network reach, visibility, and control. Technica is a leader in providing Situational Awareness (SA) technologies at DoD that support transparent and dynamic understanding of network operational status. SA is critical for supporting mission-oriented military systems that require 100 percent uptime. Our SA work on the DISN Operational Support System (OSS) allows network equipment to report their operational status (to each other and to network administrators) in near real-time. Proven support for innovative technology sets Technica apart in the network engineering field.

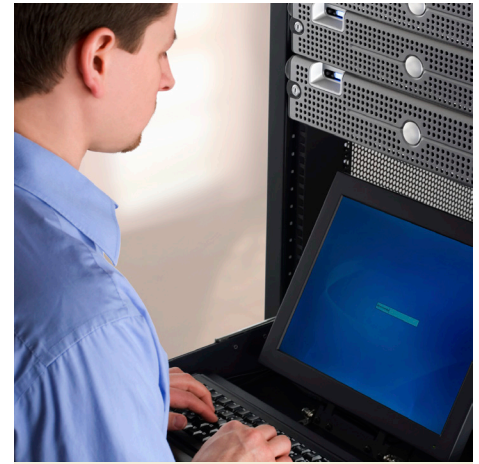
Technica has all the ground-level network engineering support required to keep state-of-the-art networks running and secure for the Federal Government. We have an intimate understanding of the Ports Protocols and Services (PPS) utilized within DoD. Our engineering staff is conversant in the DoD Instruction 8500 Series and holds certifications as required by DoD Directive 8570.01. We will apply our decades of real-world experience and dedication to detail to maximize the value of your day-to-day network engineering tasks.

What Sets Technica Apart

At Technica, network engineering is a core competency that is reflected in the quality of our professional staff and our proven methods for developing and managing telecommunications networks. Decades of practical experience inside and outside DoD provides our senior scientists and engineers with the:

- ▶ **Experience** with DoD customers on large-scale mission-critical networks including the GIG and DISN, which directly support warfighter communications and demand extremely low risk
- ▶ **Ability** to provide full lifecycle network engineering services, from design and development to installation and testing, through long-term maintenance and sustainment to retirement
- ▶ **Knowledge** and foresight to apply innovation—such as Service Oriented Architecture (SOA)-based network modularity and the interoperability of Web Services—to managing infrastructure that requires 100 percent availability and uptime
- ▶ **Trust** of our customers to provide Subject Matter Expert (SME) support for major network infrastructure changes such as the Defense Department's global upgrade to the IPv6 protocol

Technica professionals possess the necessary knowledge (in legacy, optical and advanced networking, redundancy and restoration engineering for bulletproof availability, and secure transmission) to provide telecommunications solutions suitable for use at DoD, the FBI, the White House, and other customers with similar mission requirements.



Company Information

- ▶ Veteran and Minority Owned
- ▶ Small Disadvantaged Business
- ▶ CMMI Level 2 Program Management
- ▶ Certified PMP Resources
- ▶ Certified ITIL v3 Expertise

For more information about

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