Network Security Engineering

Technica has provided network security engineering and architecture services to the Federal Government for more than a decade. Our senior-level consultants and certified engineers support full life-cycle security architecture development for enterprise-class federal networks. Our product and technology subject matter experts (SMEs), supported by our established lab facilities, have the experience needed to make complex network security engineering projects successful.

OUR NETWORK SECURITY ENGINEERING SERVICES:

- Network Security Architecture
- Cloud Security
- Secure Virtualization
- Cryptography
- HAIPE and HAIPE Peer Discovery

Technica engineers design, implement, test and deploy network architecture to manage and maintain cross-domain security. This includes traditional network perimeter devices such as firewalls, intrusion detection/prevention systems (IDS/IPS), virtual private networks (VPNs) and other network security devices that detect and regulate network admission and traffic flow. We collaborate with our customers to develop, manage, enforce and evolve the rules governing perimeter access. Our work helps to build and reinforce the foundation for secure information-sharing across DoD, with our allies, and with the Intelligence Community (IC).

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Photo by Department of Defense

Technica professionals also utilize their deep experience as network builders to manage the protocols and routing standards that can contribute to network security. It is our knowledge of the full capabilities and hidden synergies of network technologies that sets us apart from the pack. Our network engineers design and deploy Multiprotocol Label Switching (MPLS) to provide fast and efficient core network switching, yet acknowledge the added security of logical packet stream isolation. We manage Network Address Translation (NAT) to stretch our customer's Internet Protocol address (IP address) pool, understanding that NAT can also help thwart intruders by hiding multiple network elements behind a single interface. Our professionals understand that technology choices can be used in ways that enhance security and share that understanding with our customers as a trusted technology advisor.

We deployed and managed the Defense Information Systems Agency (DISA) Host-Based Security System (HBSS), an approach to security that bases admission to a network on compliance with enterprise security policy (such as a running firewall or current antivirus signatures). Under Technica management, HBSS has become the primary DISA tool for ensuring computer compliance and alleviating the "insider threat" to DoD networks. Our work on HBSS contributed to the strong end-to-end security stance required by the Federal Government.

Ports, Protocols and Services (PPS) dictate the type of traffic allowed on the network and requires expert resources to effectively manage security. We support PPS Management (PPSM) in accordance with customer regulations and based on our extensive experience and research. Our Information Assurance (IA) engineers can analyze the characteristics of hundreds of network options, advise our customers on their potential benefits or security impact, and implement approved PPS on network equipment in accordance with applicable regulations, standards and guidelines.

What Sets Technica Apart

Our engineers and scientists have decades of experience covering virtually every aspect of systems engineering, and our knowledge provides:

- **Experience** with the Federal Government's most secure networks (GIG, DISN, NIPR/SIPRNet)
- **Senior scientists** and SMEs that support network engineering at the trusted advisor level
- **Engineers** with extensive "network plumbing" experience
- **In-depth knowledge** and application of relevant standards and regulations (DoD 8500 and DISA STIGs)

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About Us

Technica provides professional services, products, and innovative technology solutions to the Federal Government. We specialize in network operations and infrastructure; cyber defense and security; government application integration; systems engineering and training; and product research, deployment planning, and support.

Company Information

- IT Solutions Since 1991
- CMMI Level 2, DEV and SVC v1.3
- Certified PMP Resources
- Certified ITIL v3 Expertise