

Independent Verification and Validation

Our Independent Verification and Validation (IV&V) services include quality planning, testing, analysis, and reporting and compliance. Technica engineers provide test support services utilizing best-in-class hardware and software test tools, including specialized equipment for IP cryptographic testing. We also perform operational, interoperability, and network management testing of Information Assurance (IA) devices in lab environments that simulate real-world deployment. Our exhaustive system and end-to-end network testing utilizes established testing methodologies and delivers proven results for our customers.



IV&V is the process of employing an independent third party to evaluate a work product. Independent means that the evaluating entity must gain no merit or advantage in either a positive or negative evaluation of the product. The evaluating entity should not be a part of, or affiliated with, the team producing the product or the customer receiving the product. This allows the evaluating entity to analyze the work product completely free of bias.

OUR IV&V SERVICES:

- Network Security Engineering
- Privilege Management
- Security, Testing and Evaluation
- Certification and Accreditation
- Information Assurance

Technica[®]

Not only does neutrality matter, but a complete understanding of the target product and the underlying technology and use of rigorous, process-driven methods of analysis makes a critical difference in IV&V. Our professional engineers and senior subject matter experts (SMEs) employ CMMI Level 2-based processes to help verify the integrity and fault tolerance of IT technology used by the Defense Information Systems Agency (DISA) in mission critical communications systems and equipment.

Technica serves as a trusted advisor for DISA, providing IV&V for the deployment and operation of the High Assurance IP Encryptor (HAIPE) link encryption. Our work protects classified defense and national security systems through independent test, validation, and verification to ensure that newly deployed HAIPEs operate as required, do not conflict with older models, and continue to protect sensitive information under adverse conditions.

We have performed IV&V functional testing of the DISA Host-Based Security Solution (HBSS). Our work supported a robust, evolving, and widely deployed security tool with independently verified and validated components proven to perform to customer needs and vendor specifications. Technica engineers worked with HBSS vendors McAfee and Symantec to develop test plans and metrics that compare vendor-specified operational characteristics (performance, compatibility, interoperability, and scalability) to the actual performance of the solution. We also worked with McAfee and Symantec to integrate antivirus packages on the HBSS platform, which expanded choices for DoD users, supported the evolution of the tool, accelerated deployment of new capabilities, and assured that future versions had more features and were even more effective.

What Sets Technica Apart

Our engineers and scientists use advanced tools and methodologies (including in-depth virtualization modeling). Technica application developers maintain credentials in Java, Microsoft .NET, Citrix, Sun and many other product and technology areas that support virtualization. We provide:

- **Process-driven methods** of analysis based on CMMI Level 2
- **Professional engineers**, senior scientists and SMEs
- **Cross-pollination** to support IV&V in several information technology areas
- **Training and certification** credentials in several key areas

System virtualization can help boost efficiency when budgets are tight. Accurate planning and effective virtualization for mission-critical production systems requires clear understanding of the possibilities and how best to apply solutions that work. Our multi-disciplinary approach to problem-solving, coupled with our current experience in virtual systems development, means Technica can provide the support needed to meet your goals.



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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