

## Enterprise Application Integration

Enterprise Application Integration (EAI) describes methodologies, services and technologies used to link isolated information or computing components that cannot currently communicate, often referred to as information silos or islands. Information silos may lack common components, have no information sharing model, or have native vocabularies that cannot be translated between components. Our experience has shown that lack of a common information-sharing framework makes information silos inflexible and inefficient and their infrastructure subject to obsolescence.



Technica helps our customers develop EAI solutions that provide loosely coupled integration for better flexibility and scalability, “data-centric” architecture where information is the prime mover, and common, standards-based services for sharing data securely. One example is our work on the Defense Information Systems Network (DISN) Operational Support System (OSS), the control system for Defense Information Systems Agency (DISA) networks. For the OSS, Technica defined a common standards-based information exchange schema, developed reference implementations (RIs) based on interoperable and interchangeable commercial off-the-shelf (COTS) solutions, and implemented a Service Oriented Integration (SOI) environment based on Service Oriented Architecture (SOA) principles.

### OUR ENTERPRISE APPLICATION INTEGRATION SERVICES:

- Enterprise Service Bus (ESB)
- Web Services Implementation
- Service Oriented Integration (SOI)
- Service Oriented Architecture (SOA)
- Data Mediation
- Identity Management and Access Control
- Platform as a Service (PaaS)

# Technica®

We implemented the Multi-Technology Operations System Interface (MTOSI) protocol over a commercial Enterprise Service Bus (ESB) infrastructure to provide information sharing among network equipment across the OSS. Our solution allowed devices to communicate their health and status, via Extensible Markup Language (XML), to other devices and to network management applications, resulting in fewer mission-affecting network outages on DISA networks. Data mediation—on-the-fly vocabulary translation—was also designed by Technica to operate seamlessly in the background.

Another area where Technica provides EAI solutions is in secure cloud computing, where our engineers support the development of Platform as a Service (PaaS) within the DISA

Enterprise. PaaS is a managed, cloud-based platform that the DoD software development community can use to create, test, and deploy custom software code for military use. PaaS provides a readymade environment where underlying support services such as server infrastructure, network connectivity, and data storage are provided for the DoD developer in a secure, standards-based production environment. The Technica-designed PaaS also supports SOA methodologies for software and web services development, making newly-developed code inherently interoperable and reusable across the DoD. Our engineers designed PaaS to facilitate rapid delivery of new software applications and web-based mission capabilities, increase interoperability and net-centricity, enforce DoD software development standards and security, and maximize efficiency.

## What Sets Technica Apart

At Technica, our engineers bring decades of experience to EAI solutions designed to help systems and networks communicate, make business processes more valuable and information timelier and easier to share.

Our EAI practice includes:

- **Understanding** how and why silos evolve and how EAI can make customers more efficient
- **Inventive** use of emerging solutions (SOA/ESB) and stable technologies (MTOSI protocol)
- **Promoting** vendor independence, lengthening the useful life of IT assets, lowering cost, and gaining efficiency
- **Innovative** technology solutions that are setting standards in the industry

Our experienced and certified engineers can help you effectively and securely integrate systems and applications within your enterprise. We use the latest EAI technologies and industry standards to support rapid development of new capabilities, consistency across deployed applications and systems, and efficiency through technology reuse for our Federal Government customers.



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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