



NetCentric Operations

fast facts

Department of Defense (DOD) information systems are being dramatically impacted by the migration to secure internet protocol based NetCentric operations. The Defense Enterprise Architecture standard requires all DOD Information systems (business, as well as warfighter systems) become NetCentric in order to provide a seamless flow of information to DOD users across the globe.

NetCentric concepts represent the way ahead for Departments of Defense and Homeland Security future operations.

NetCentric refers to the moving and sharing of information among military personnel and weapon systems, with each person/weapon having a discrete IP address.

DOD's NetCentric network is referred to as the Global Information Grid or GIG. The GIG is now the central linchpin for all DOD operations, and must be defended from cyber, as well as physical, attack.

"Networked forces outfight non-networked forces..."

Lt. Gen. David D. McKierman,
Combined Forces Land Component,
Commander, OIF.

Teledyne Solutions Incorporated (TSI) provides highly trained engineers and scientists with specific skills in NetCentric Operations and Computer Network Attack (CNA) and Computer Network Defense (CND) to serve as Subject Matter Experts (SMEs) to help our customers migrate to Netcentric applications and integrate high-end cybersecurity protection of their networks.

We provide applied research and development solutions in enterprise architecture modeling, design and planning to augment organic network and information assurance skills. In addition, TSI's participation in senior level advisory groups assists in establishing standards and providing our customers with the knowledge of DOD and the Services vision regarding NetCentric operations.

Corporate Contact:

Teledyne Solutions, Inc.

5000 Bradford Drive,

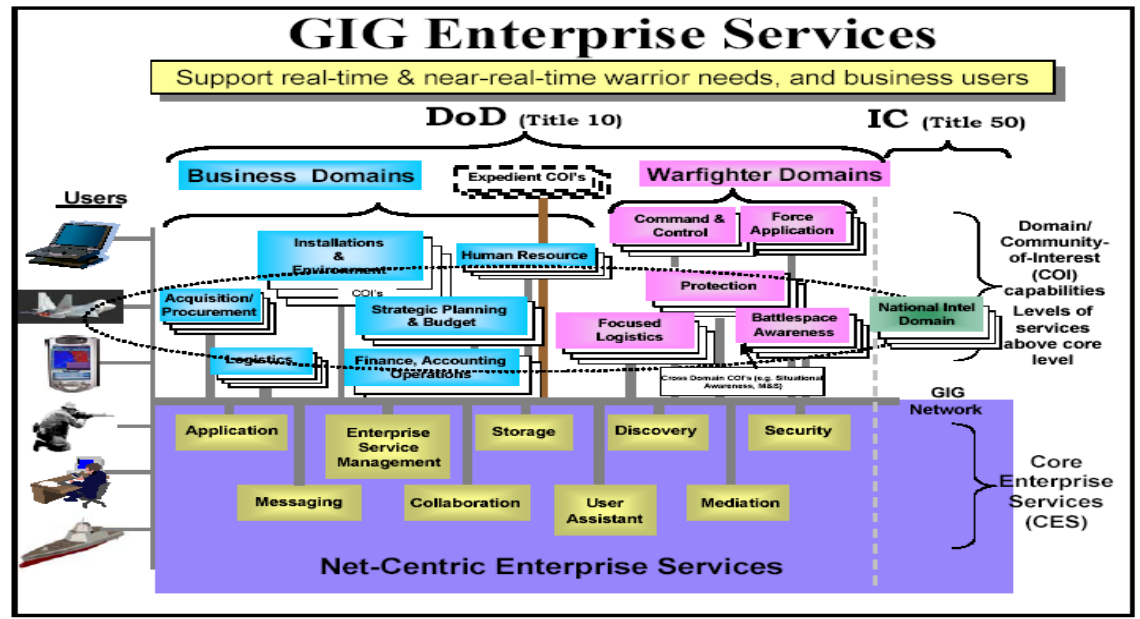
Suite 200

Huntsville, Alabama 35805

Phone:256.726.4444

Fax:256.726.1456

www.TeledyneSolutions.com



TELEDYNE SOLUTIONS, INC.
A Teledyne Technologies Company

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TSI provides expertise in all areas that combine to form Netcentric Operations.

Net Centric Architectures – TSI is a leader in integrating Commercial-Off-The-Shelf (COTS) and Government-Off-The-Shelf (GOTS)-based solutions for voice, radio, data, imagery and radar over IP architectures, including secure wireless networks. TSI personnel helped develop the Defense Enterprise Architecture standards and requirements for Netcentric warfare concepts and designs. TSI is also on the General Officer Steering Group for the Joint Command, Control, Communication, Intelligence, Surveillance, and Reconnaissance (C4ISR) Integration Committee for Netcentric Warfare.

Trusted Web-enabled Applications – Netcentric Operations relies on web-enabled applications to provide interoperability and data access to all users on the secure IP-based networks. Since the web application is the front-end for databases containing valuable information, the web applications must be secure and provide uncorrupted information. TSI also provides a proven trusted software methodology that designs security into developed code. Given the prevalence of embedded COTS software, software reuse, and software being developed offshore, TSI believes designed-in security is a prudent precaution for mission-critical software.

Geospatial Information – Geospatial information is a term used to describe a class of data that has a geographic or spatial nature. This includes overlaying of imagery and 3-D terrain features onto a database containing multiple layers or feature sets. Think of it as a high-tech interactive map that you can drill down to find other underlying features such as roads, correlated intelligence data, etc. TSI is a proponent of using open-GIS (Geographical Information Systems) standards for integrating geospatial tool sets for NetCentric applications.

Precision GPS – TSI has a national-level reputation in enhanced GPS guidance and navigation schemes, including the Wide Area GPS Enhancement (WAGE) program, to provide centimeter-level accuracy. We have provided unique GPS knowledge in applying WAGE technologies to direct support of combat operations during Operation Iraqi Freedom. Our GPS expertise includes various commercial GPS enhancement design applications. TSI engineers have supported concept development studies for enhanced accuracy GPS-guided munitions. We also have industry expertise in integrating GPS and other guidance and navigation inputs to achieve real-time Battle Damage Assessment (BDA) for precision-guided munitions.

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