

**Defense Message System (DMS) Test Lab:** Conducts independent developmental and operational testing and assessment of the DMS program to ensure operationally effective and suitable systems are delivered to the Warfighter. Serves as the Operational Test Agent (OTA) for the DMS program.

**Network Integration Testbed (NIT):** Provides interoperability testing with emphasis on extending networking capabilities to the tactical forces of DOD. Includes conformance, performance, and proof of concept testing of networks.

**Distributed Network Control Center (DNCC):** Interfaces with four testbeds, COMSEC vault and the secure area, all of which are on-site. Enables interfacing with off-site industrial labs, other military and government testbeds, and military units anywhere in the world.

**Defense Message System (DMS) and Service Messaging Test Facility:** A broad spectrum of testing is conducted by JITC facilities at Indian Head, Maryland on messaging and information systems products.

**Strategic Switching Laboratory (SSL):** Tests and certifies all new systems and upgrades to existing systems that support the Defense Switched Network and the Defense Red Switch Network.

**Network Engineering Integration Lab (NEIL):** Provides conformance, interoperability, and performance testing of Asynchronous Transfer Mode (ATM), video teleconferencing (VTC), leading edge devices, and transmission systems. Provides technical advice and assistance to operational command.

**Information Assurance (IA) T&E Lab:** Provides a variety of IA Test and Evaluation services including: vulnerability assessments, penetration testing, government and commercial product testing, and security tool assessments. Also provides a controlled DII-replica environment for high-risk tests.

**Theater Air and Missile Defense (TAMD) Lab:** Provides the TAMD community with a wide range of test event planning, near real time analysis, and post-test analysis capabilities. Supports scheduled testing, field exercises, simulation exercises, and hardware-in-the-loop exercises.

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## GENERAL INFORMATION



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***Increasing Combat Effectiveness  
Through Interoperability***

## **Joint Interoperability Test Command**

## BACKGROUND INFORMATION

The Joint Interoperability Test Command (JITC) is the Department of Defense's (DOD) facility for evaluating the interoperability of National Security Systems (NSS) and Information Technology (IT) systems. JITC also conducts a wide range of developmental, operational, and standards conformance tests for DOD, private industry, and several federal agencies.

The JITC is the place for "one-stop systems testing" with its one-of-a-kind array of hardware, software, and staffing, along with its state-of-the-art technological flexibility. The command can interface all its on-site capabilities and network with any other testing or operational facility worldwide. The JITC facilities are located at Fort Huachuca, Arizona and Indian Head, Maryland.

## JITC ORGANIZATION

The JITC consists of the Office of the Commander and supports eight divisions: Plans, Policy & Warfighter; Operational Test and Evaluation; Automated Systems and Test Support; Networks, Transmission and Intelligence; Washington Operations; Joint Distributed Engineering Plant; Command, Control & Combat Support Systems; and Resource Management. General information inquiries and other contacts are handled by the Executive Officer and the Visitor Support Center.

## JITC SERVICES

The JITC conducts testing of information, communications, and intelligence hardware and software systems and components. Its customers include private industry, federal agencies, CINCs, US and allied military Services and the Defense Information Systems Agency (DISA). Its vast array of services include:

- ◆ Performing independent technical and operational testing such as:
  - ◆ **Standards conformance testing** - Determines if a system or element meets the requirements of standards such as MIL, FIPS, STANAG, or ISO.

- ◆ **Joint Interoperability testing and certification** - Determines if a system or element "works" with other systems or elements of other Services or countries.
- ◆ **Performance testing** - Determines if a system or component satisfies the performance requirements of the user.
- ◆ **System effectiveness** - Determines how well a system or component meets the functional requirements of the using organization.
- ◆ **Operational testing or assessment** - Determines if a system is or has the potential to be operationally effective and/or suitable.
- ◆ Writing test plans, executing tests and publishing test reports for all of the above.
- ◆ Serving as a development partner through a project's lifecycle.
- ◆ Providing "in the field" support for worldwide CINCs, the military Services, and federal agencies. This includes evaluating simulation or training exercises, troubleshooting operational systems and performing other on-site activities.
- ◆ Supporting in-plant or other remote site developmental or operational tests, concept evaluations and demonstration tests.
- ◆ Publishing *The Testing Times* and *Lessons Learned Report* to inform users of the latest developments in systems hardware and software and new techniques for interfacing and maximizing information, communication and intelligence systems.
- ◆ Providing the Joint Interoperability Tool (JIT) on the SIPRNET at <http://199.208.204.125/jitc.htm> and NIPRNET at <http://jit.fhu.disa.mil> with the latest interoperability information.

## JITC STAFF

JITC employs approximately 174 military and DOD employees with an average of 5 - 7 years of higher education and 5 - 10 years of technical experience.

A flexible tailored resource of civilian contractor personnel averaging more than 5 - 10 years of related experience and 7 - 12 years of higher education. More than 445 of these specialists are on board at this time.

## JITC FACILITIES

**Joint Test Facility (JTF):** Tests data, message, and circuit switching systems and equipment ranging from tactical, squad level systems, to strategic, headquarters level systems. Tests every kind of transmission system including tactical line-of-sight; combat net radios; high frequency, microwave and tropospheric scatter systems; fiber optic cable; commercial telephone lines; and satellite links. Uses traffic and message loading devices to simulate high volume conditions.

**Joint Tactical Data Link (JTDL) Laboratory:** Tests C<sup>2</sup> software such as Tactical Digital Information Link (TADIL), US Message Text Formatting (USMTF) and intelligence systems. Networking capabilities and use of deployable test equipment and personnel teams permit off-site testing.

**National Imagery Transmission Format Standard (NITFS) Testing Services:** Tests and certifies that digital imagery products meet the NITF standard for formatting and exchange.

**Global Command and Control System (GCCS):** Provides GCCS application functional testing, Common Operational Picture (COP) interoperability testing, DII COE certification to Level 7, and Operational Testing and Evaluation (OT&E) of GCCS components.

**Electronic Commerce/Electronic Business (EC/EB):** Provides performance, engineering, compliance, system, and Web-based application testing for government and commercial Electronic Commerce applications and products.

**Secure Management Infrastructure (SMI) Test Area:** Tests, assesses, and evaluates Information Assurance (IA) products, services, and systems for interoperability. The SMI test area currently has a fully operational National Security Agency (NSA) sponsored Electronic Key Management System (EKMS) test laboratory which supports a wide range of customers including NSA, DOD/Civil agencies, Allies and the Military Services. The SMI test area also has an operational Class 3 (Medium Assurance) Defense Information System Agency (DISA) DOD Public Key Infrastructure (PKI) test laboratory that tests and assesses for interoperability PKI functions, applications and services.