

Capabilities;" DoD Instruction 8510.01, "DoD Information Assurance Certification and Accreditation Process (DIACAP) ;" "DoD Unified Capabilities Requirements;" Chairman of the Joint Chiefs of Staff Instruction 6212.01, "Net Ready Key Performance Parameter (NR KPP);" and other applicable policy and regulation.

### [ADDITIONAL TEST RESOURCES](#)

To support the test environment, the GNTF is equipped with an array of stand-alone test, measurement and diagnostic equipment.

- T1/E1 analyzers
- Analog, Digital and VVoIP call loaders
- Satellite simulator, error generator
- Assured Service Session Initiation Protocol (AS-SIP) analysis tool
- Internet Protocol (IP), Asynchronous Transfer Mode (ATM) and Signaling System 7 (SS7) analyzers
- Integrated Services Data Network (ISDN) Basic Rate Interface (BRI) and Primary Rate Interface (PRI) analyzer
- Network scanners/IA penetration tools

### [WARFIGHTER SUPPORT HOTLINE](#)

The GNTF support DoD Combatant Commands and other DoD elements with direct support to identify and resolve joint interoperability issues. See "Support" at: <http://jitic.fhu.disa.mil/>

### [GNTF POINTS OF CONTACT](#)

Commercial	(520) 538-6787
DSN	(312) 879-6787
Commercial FAX	(520) 538-4347
DSN FAX	(312) 879-4347

Electronic Mail

[disa.huachuca.jitic.list.tssifhu@mail.mil](mailto:disa.huachuca.jitic.list.tssifhu@mail.mil)



**Defense Information Systems Agency**  
Department of Defense

### **Joint Interoperability Test Command**

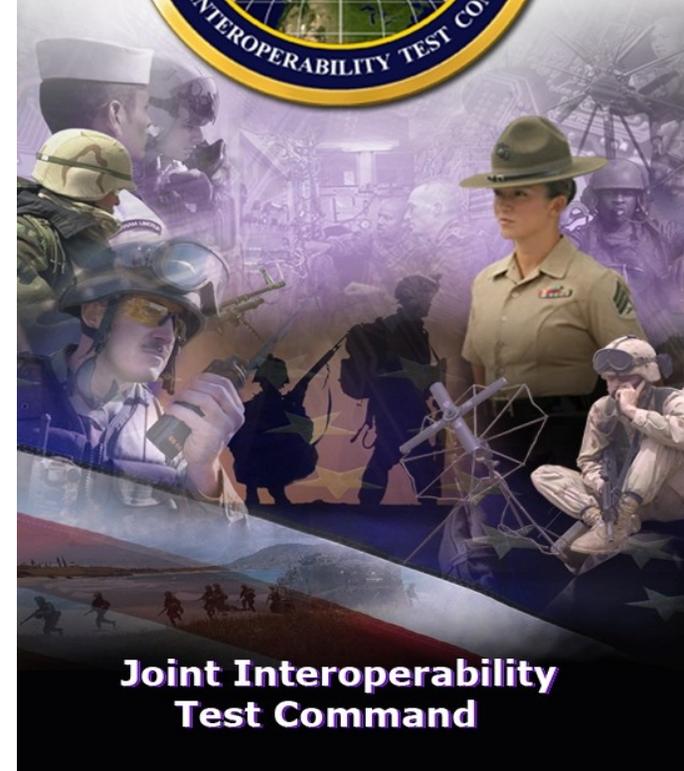
Attn: Visitor Support Center  
P.O. Box 12798  
Fort Huachuca, AZ 85670-2798

Phone: 1-800-LET-JITC  
1-800-538-5482  
<http://jitic.fhu.disa.mil>

## *GLOBAL INFORMATION GRID (GIG) NETWORK TEST FACILITY (GNTF)*



**Experts in Testing and Certification  
Accelerating the Nation's IT Dominance**



**Joint Interoperability  
Test Command**

## UNIFIED CAPABILITIES

Joint Interoperability Test Command (JITC) is the certification authority for products that support Unified Capabilities (UC) on all Department of Defense (DoD) communications networks. UC products support integration of voice, video, and/or data services on networks owned and operated by all DoD components. DoD enterprise-level infrastructures must comply with the DoD UC Requirements (DoD UCR). UC products must be interoperable whenever and wherever they are employed in the enterprise throughout the DoD Global Information Grid (GIG) to ensure that UC services are delivered with high reliability and assurance to warfighters and amongst all components of the DoD. JITC's GIG Network Test Facility (GNTF) is at the forefront of testing and certifying UC products for use enterprise-wide in all DoD component owned and operated communications networks. The GNTF also supports many test events for systems whose requirements are derived from NET-Ready Key Performance Parameters or other interoperability requirements documents.

## The Global Information Grid (GIG) Network

### Test Facility (GNTF)

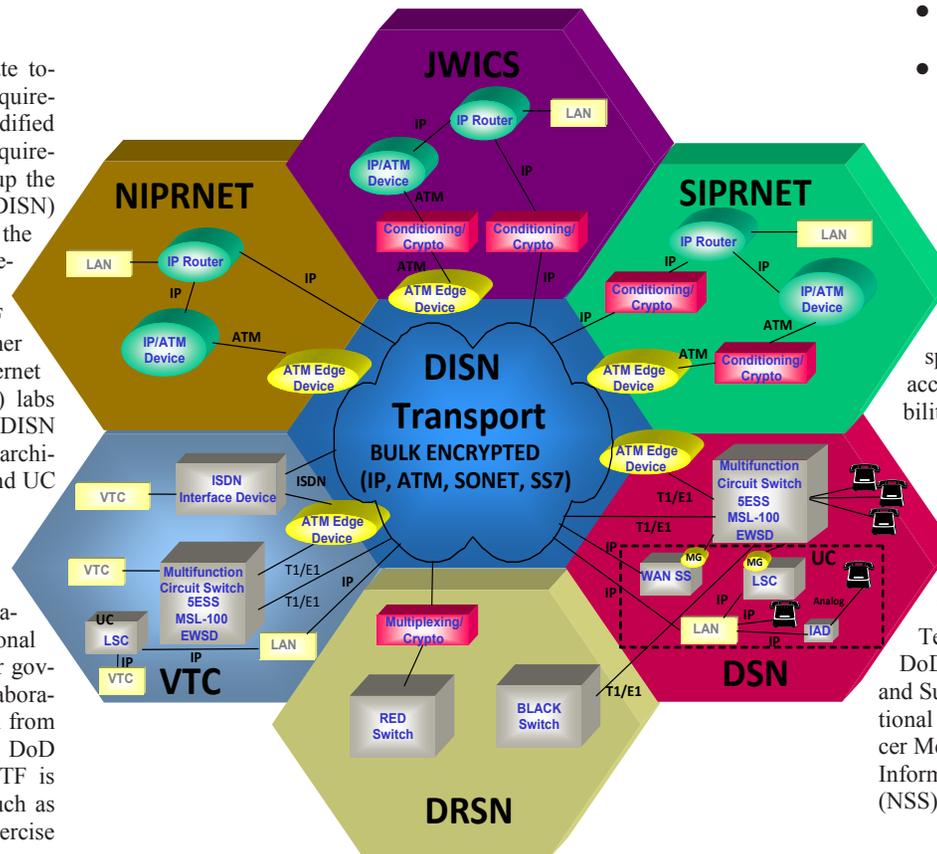
The GNTF consists of several laboratories that operate together or separately to assess information assurance requirements and test joint interoperability of new and modified voice, video, and data hardware and software to meet requirements defined in the DoD UCR. UC products make up the core of the Defense Information Systems Network (DISN) and ensure interoperability between all elements of the DISN including Defense Switched Network (DSN), Defense RED Switch Network (DRSN), and DISN Video Services (DVS) hardware and software. The GNTF integrates transport, cryptographic equipment, Customer Premise Equipment (CPE), Voice and Video Over Internet Protocol (VVoIP) and Video Conferencing (VTC) labs into an architecture closely replicating the operational DISN including DSN, DRSN, and DVS, UC communication architectures; and, the transition of legacy DISN to end-to-end UC communication and enterprise UC services.

The GNTF supports testing between strategic and tactical systems, and provides voice and data switching equipment to emulate real-world equipment configurations. The GNTF is isolated and separated from operational networks. The GNTF is capable of connecting to other government testing laboratories and to commercial testing laboratories which are also themselves isolated and separated from operational networks in accordance with applicable DoD security policy and guidance. Occasionally, the GNTF is connected to "exercise" or specialized test networks such as the periodic DoD Interoperability Communications Exercise (DICE) series.

## TESTING RESOURCES

- Transport/Edge Switch and Devices
  - Alcatel-Lucent DMX
  - Avaya OME 6500
  - NET Proxima/VX900/NX-1000
  - Veraz DTX-600/IGATE 4000
- Legacy DSN Switches and Devices
  - Alcatel-Lucent 5ESS, CDX and VCDX
  - Alcatel Omni PCX 4400
  - Avaya CM 1000X, S87XX, S8400, S8300
  - Avaya CS-2100, AS 5300
  - Cisco Call Manager, Unified Communications Manager, Cisco Meeting Place, Contact Center
  - Mitel SX-2000
  - NEC 2400/2000 PBXs
  - Redcom IGX, HDX, SLICE
  - Tekelec Eagle STPs
  - Siemens HiPath, 4000, EWSD

- DVS VTC and VTC Ancillary Equipment
  - Adtran 550, 830, 890, 512 IAS, and TAs
  - Cisco
  - Polycom
  - Vidyo
- Assured Services LAN (Local Area Network) (ASLAN)
  - Avaya
  - Brocade
  - Cisco
  - Enterasys
  - Extreme
  - Hewlett-Packard
  - Juniper
- DRSN
  - DSS2, DSS2A
  - SDS Family
- Unified Capabilities Products
  - Local Session Controller (LSC): Redcom, Cisco, Avaya, Nokia Siemens Networks
  - Wide Area Network (WAN) Soft Switch (SS): Avaya, Nokia Siemens Networks
  - Edge Boundary Controller (EBC): Cisco, Acme Packet
  - Customer Edge Router (CER): Cisco, Juniper Multi-function Soft Switch (MFSS): Avaya



## TEST PROCEDURES

The GNTF uses generic interoperability test procedures and published UC test plans to evaluate interoperability and Military Unique Functions specified in the DoD UCR. The UCR specifies the functional requirements, performance objectives, and technical specifications for DoD networks that support UC in accordance with DoD Instruction 8100.04, "Unified Capabilities."

## POLICY AND GUIDANCE

Information Assurance testing and assessments and joint interoperability testing and certification conducted in accordance with DoD Directive 4630.05, "Interoperability and Supportability of Information Technology (IT) and National Security Systems (NSS);" DoD Instruction 4630.8, "Procedures for Interoperability and Supportability of Information Technology (IT) and National Security Systems (NSS);" DoD Chief Information Officer Memorandum, "Interim Guidance for Interoperability of Information Technology (IT) and National Security Systems (NSS)," 27 March 2012; DoD Instruction 8100.04, "Unified