



# JITC

**Joint Interoperability Test Command**

## Command Overview

**Mission, Vision, Capabilities, and  
Impact of the Joint Interoperability  
Certifier**

The logo for the Defense Information Systems Agency (DISA), featuring the letters 'DISA' in a bold, white, sans-serif font with a stylized swoosh underneath.

**Defense Information Systems Agency**





- **JITC's Value Added: 4 Warfighter Vignettes**
- **Mission and Vision**
- **Organizational Structure**
- **Major Transformational Initiatives**

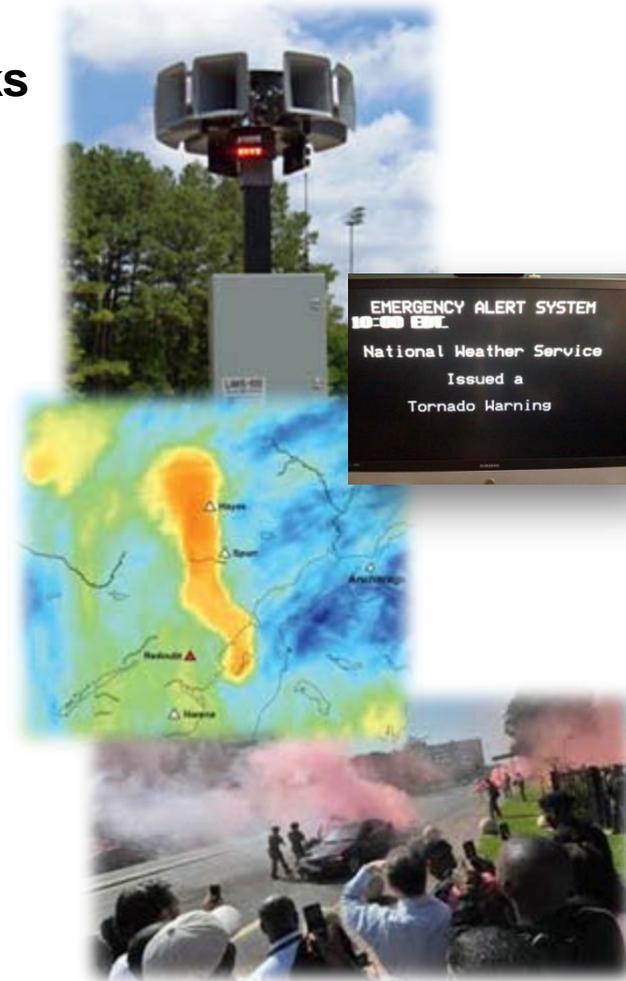


# **DISA** National Infrastructure: Integrated Public Alert and Warning System (IPAWS)



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- **IPAWS: Next-generation alert and warning networks**
  - Nation-wide Federal, State, and Local alerts to the public
  - Multiple communication paths for widespread dissemination
  - Digital Alert & Warning, VSAT, geo-targeting, cellular
  - Chem/bio alerts, AMBER alerts, Silver alerts – and more!
- **JITC's Value Added**
  - Planned/executed first ever National-level test of the Emergency Alert System (EAS)
- **Operational Impact to the Nation**
  - Ensures POTUS ability to communicate with the public under all conditions
  - Multiple paths ensures public gets the message
  - JITC testing ensures solutions work when needed the most



**JITC: Ensures Public Safety through Interoperable Alerts**



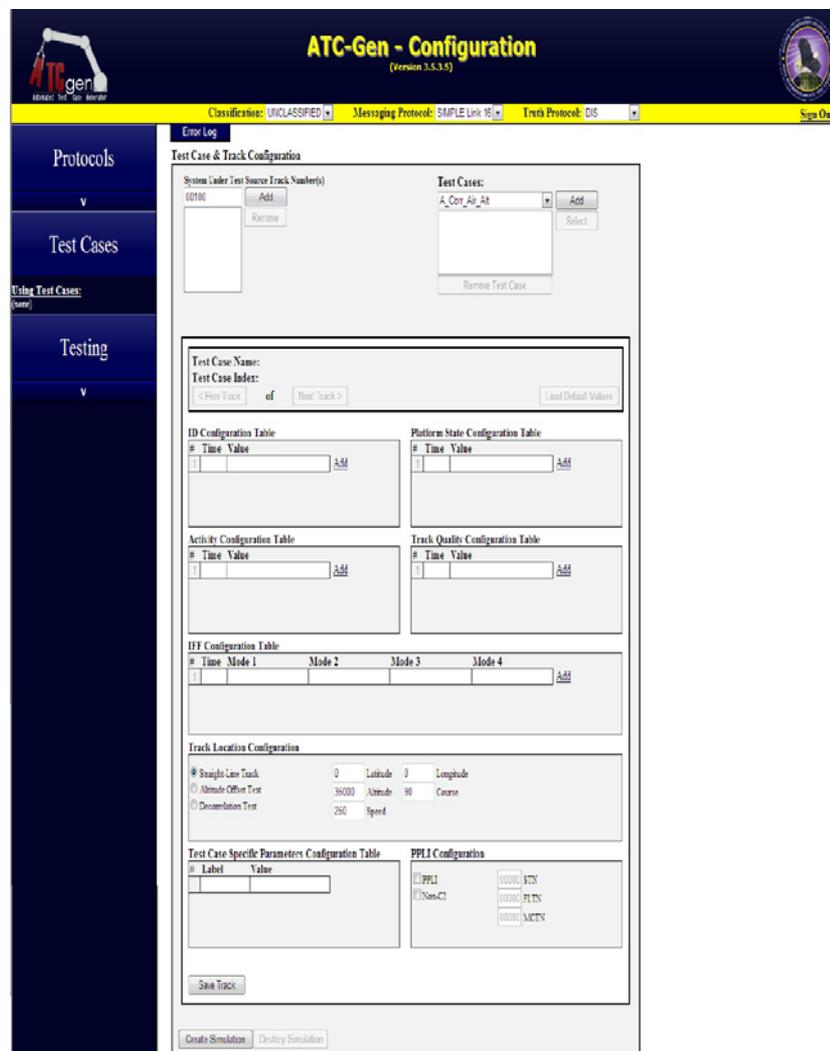
- **Host Based Security System (HBSS) Quick Reaction Test (QRT)**
  - Extending current HBSS capabilities to address additional DoD areas of need (at no additional cost)
  - Multiple phases of deployment across DoD
  - Not all HBSS capabilities being leveraged to the full extent possible
- **JITC's Value Added**
  - Leading the coordinated effort of multiple agencies
    - USJFCOM, USPACOM, USSTRATCOM, USCYBERCOM, DISA
    - Engaging JSIC to support operational evaluation
  - Testing formal/informal HBSS configuration policies from organizations across the GIG
  - Developing DoD-specific protection level baselines to address levels of security
- **Operational Impact to the Warfighter**
  - Increased network defense at minimal extra cost
  - Provided Joint CONOPS and TTPs -- warfighter's roadmap for successful implementation





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- **ATC-Gen**
  - **Persistent Test Service**
    - Operates in a cloud computing environment
    - Operates on persistent networks
  - **Approximately 100 Link 16 test cases**
    - Correlation, R2, ID DIFF, etc.
  
- **JITC's Value Added**
  - Supports US/NATO/Coalition testing
  - Rapid development using Scrum
  - Just In Time Certification (JITC)
  - Scientific Based Test Design module
  - Maturing capability from risk reduction to a full certification capability
  
- **Operational Impact to the Warfighter**
  - Lower testing cost; Test at the speed of need; Supports rapid fielding of new capabilities



The screenshot shows the ATC-Gen Configuration web application. The interface includes a navigation menu on the left with options for Protocols, Test Cases, and Testing. The main content area is titled "ATC-Gen - Configuration (version 3.5.3.5)" and features a yellow header with classification and protocol information. The central panel, "Test Case & Track Configuration", contains several configuration tables and controls:

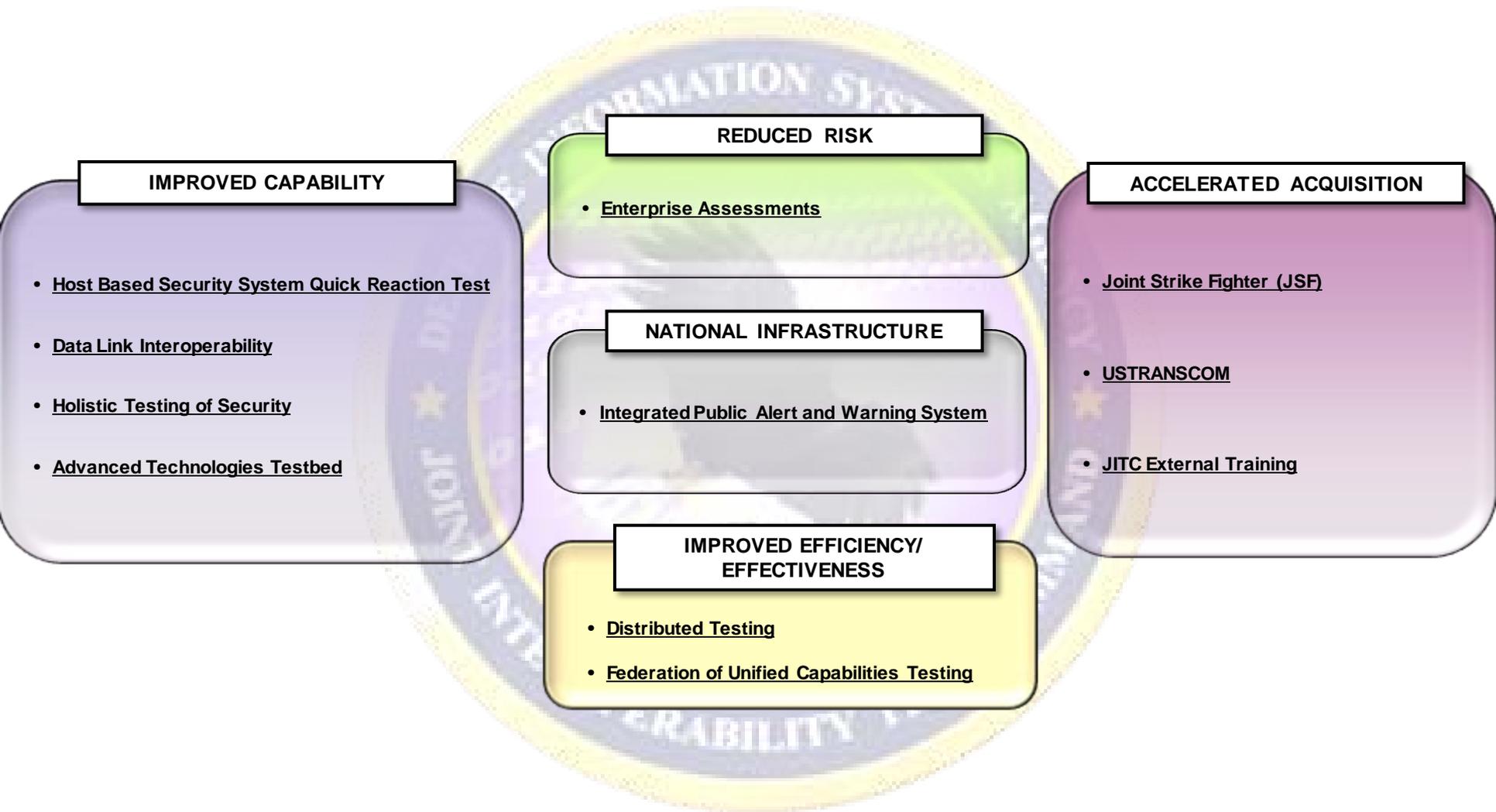
- System Under Test Source (Track Number(s))**: A table with one entry "0010" and an "Add" button.
- Test Cases**: A dropdown menu showing "A\_Cor\_Air\_Alt" and an "Add" button.
- Test Case Name**: A text input field.
- Test Case Index**: A dropdown menu with "< Prev Track" and "Next Track >" buttons, and a "Load Default Values" button.
- ID Configuration Table**: A table with columns for "#", "Time", and "Value", and an "Add" button.
- Platform State Configuration Table**: A table with columns for "#", "Time", and "Value", and an "Add" button.
- Activity Configuration Table**: A table with columns for "#", "Time", and "Value", and an "Add" button.
- Track Quality Configuration Table**: A table with columns for "#", "Time", and "Value", and an "Add" button.
- IDF Configuration Table**: A table with columns for "#", "Time", "Mode 1", "Mode 2", "Mode 3", and "Mode 4", and an "Add" button.
- Track Location Configuration**: A section with radio buttons for "Straight Line Track", "Altitude Offset Test", and "Decomposition Test", and input fields for "Latitude", "Longitude", "Altitude", and "Speed".
- Test Case Specific Parameters Configuration Table**: A table with columns for "#", "Label", and "Value", and an "Add" button.
- PPLI Configuration**: A section with radio buttons for "PPLI", "Non-C2", and "ACTN", and input fields for "STBY", "PLTN", and "ACTN".

At the bottom of the configuration panel, there is a "Save Track" button and a "Create Simulation" / "Destroy Simulation" toggle.



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# JITC's Value Added





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# Mission & Vision



**MISSION:** JITC professionally tests, operationally evaluates, and certifies IT capabilities for joint interoperability, enabling information dominance and increasing warfighter effectiveness for the Nation.

**VISION:** Experts in testing and certification, accelerating the Nation's IT dominance.



# JITC's Roles

## *Joint Interoperability Certifier*

DoD's Information Technology (IT) and National Security Systems (NSS)

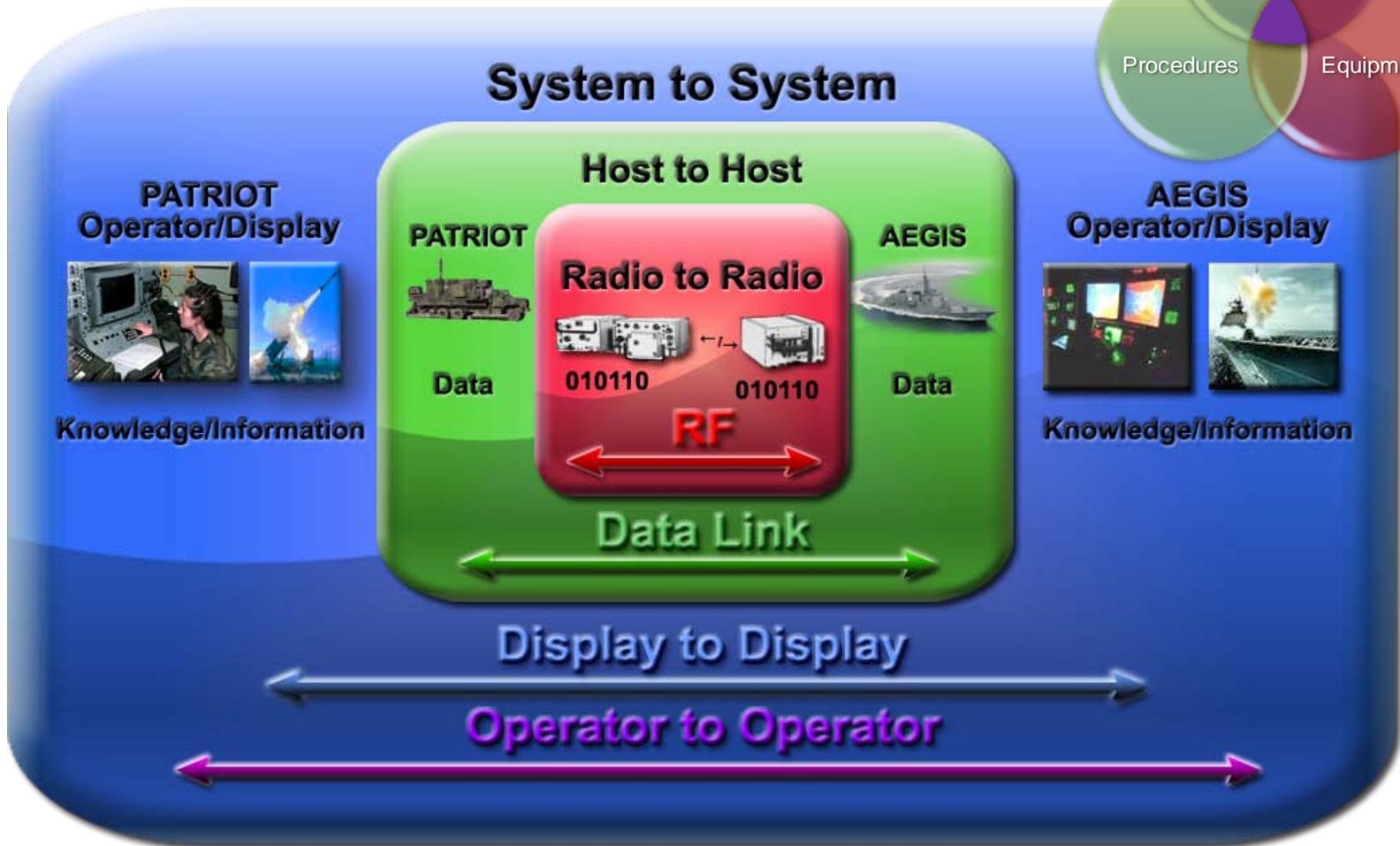
## *Operational Test Agency*

DISA and other DoD elements (IT Capabilities)

## *Warfighter Joint and Coalition Interoperability Support*

COCOMs during their exercises, contingencies, and operations

# JITC Uniqueness: End-to-End Joint Interoperability



**Ensuring End-to-End Technical and Operational Effectiveness of Information Exchanges**

# Mission Support Structure



## DISA Matrixed Support



*JITC Mission Supported by Engineers, Computer Scientists, Operations Research Systems Analysts as well as Technical and Operational Experts* 11

# Personnel and Facilities



**FORT HUACHUCA, ARIZONA**



**INDIAN HEAD, MARYLAND**



**FORT MEADE, MARYLAND**



USA



USMC



USN



USAF



**Total Force Strength: 1,152**

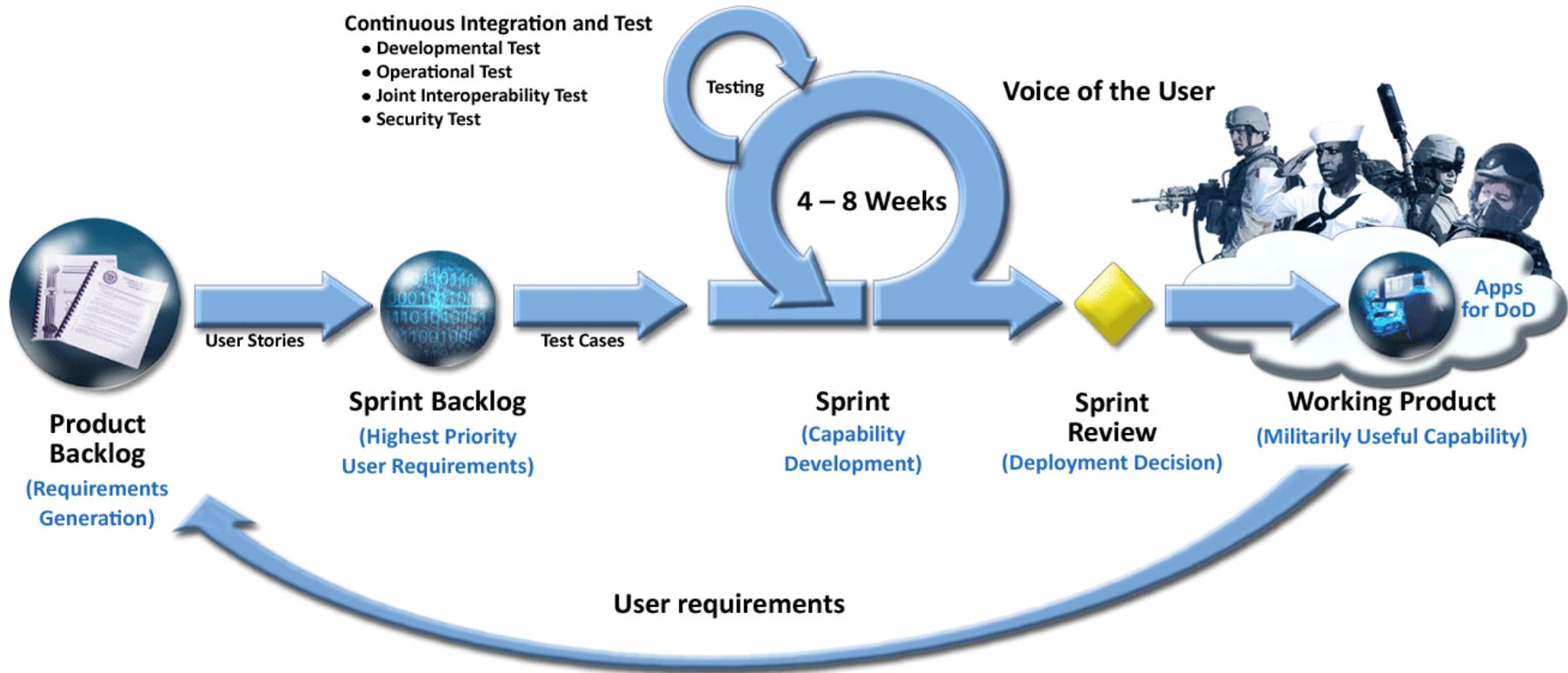
# Testing Transformation

## IT Acquisition Reform



**Continuous Integration and Test**

- Developmental Test
- Operational Test
- Joint Interoperability Test
- Security Test



\* Sprint is used here as a name for smallest increment of deployable software



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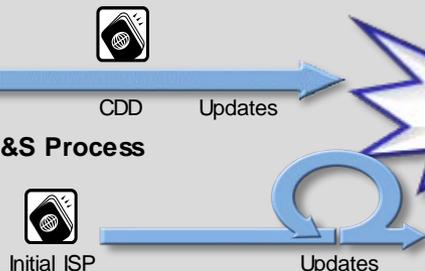
Requirements

CJCSI 3170.01 – JCIDS



**JMT / ICD Validation**

CJCSI 6212.01 - I&S Process



**CDD / ISP Helpdesk**



Acquisition

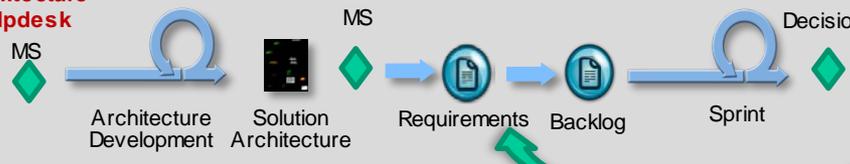
DoD 5000 Series – Defense Acquisition System



**DISA T&E**

**Agile Test and Evaluation**

**Architecture Helpdesk**



Infrastructure

DoDI 3200.11 - Major Range and Test Facility Base



GIG Services, Netw orks, Instrumentation, M&S and other T&E Infrastructure

**Infrastructure Improvement and Provisioning**



**Responsive & Representative Infrastructure**



## Making Acquisition Processes and Infrastructure Responsive to the Warfighter



- **Over 100 events with 50+ CONUS / OCONUS facilities (1990 - 2011)**
  - Afghan Mission Network Testing
  - Distributed Common Ground System
  - Empire Challenge FY09-11
  - NCES PVT DT/OT support
  - Blue Force Tracking
  - Joint Tactical Data Link testing
  - NATO Tactical Data Link
  - SIAP Joint Combined HWIL events
  - Combined Interoperability Test
- **Areas of expertise**
  - Web services and enterprise testing
  - Joint mission environment engineering
  - Event planning and scenario development
  - Instrumentation and network support
  - M&S and test tools development VV&A
  - Site and event integration
  - Event control and data management
  - Event analysis and reporting



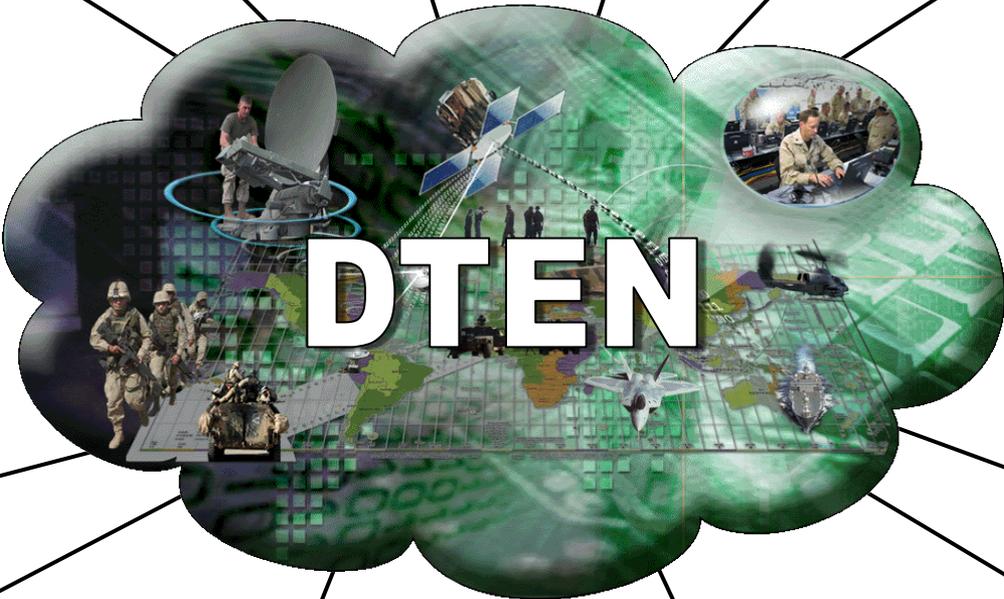
**Global Federations of  
U.S. and Coalition Partners**

**JITC: Testing and Certification Executed in Joint Distributed  
Mission Environments**

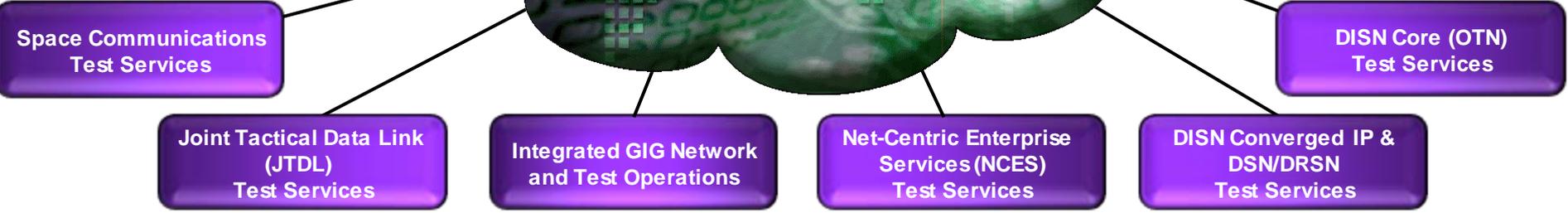
# Future Test & Evaluation Environment



- Higher Cost
- Non-Operational
- Non-Standardized
- Partially Instrumented
- Adhoc



- Reduced Cost
- Operational
- Standardized
- Fully Instrumented
- Faster Certification
- Persistent

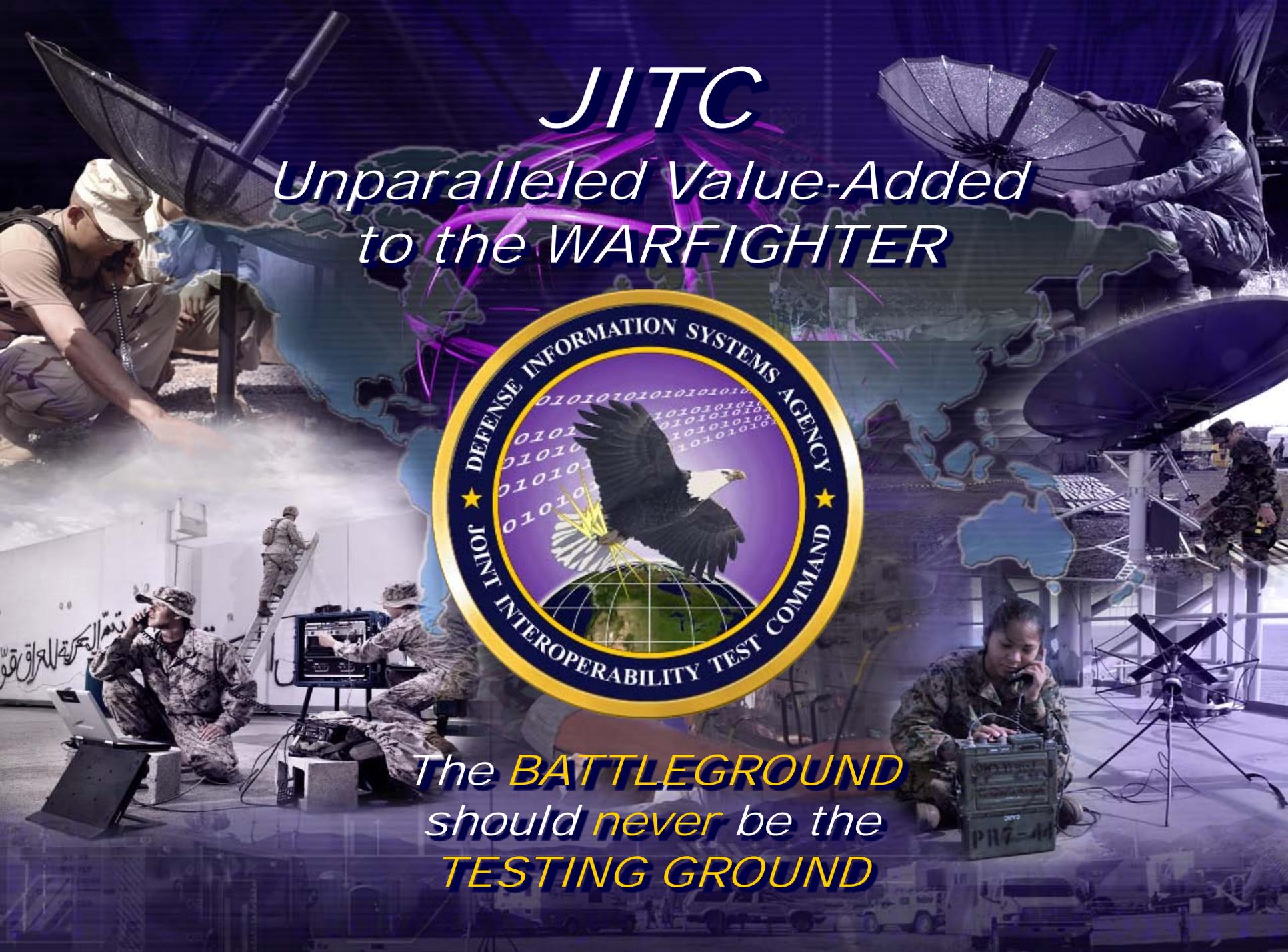


# JITC

*Unparalleled Value-Added  
to the WARFIGHTER*



*The **BATTLEGROUND**  
should *never* be the  
**TESTING GROUND***







# **BACK-UP: Success Stories**



# Accelerated Acquisition: Ballistic Missile Defense Test Support



- **Ballistic Missile Defense System (BMDS)**
  - Multi-service development effort
  - Provides defense for US and Coalition partners against Strategic and Theater Ballistic Missiles
- **JITC's Value Added**
  - BMDS OTA Team Member
    - Certifies Joint Interoperability for the OTA
    - Interoperability tester for Arrow Wpn. Sys.
  - Synchronize lessons learned across the full spectrum of testing and operations
  - Decoupled testing approach
    - Reduces risk/accelerates overall BMDS assessment
- **Operational Impact to the Warfighter**
  - Leverage BMDS OTA team sponsored testing against Service element level requirements, thus ensuring rapid resolution of interoperability problems
  - Provide the BMDS Warfighter a better understanding of the systems they are using



# Improved Capability: Data Link Interoperability



## Examples: JIT, CIT & TDL Tests

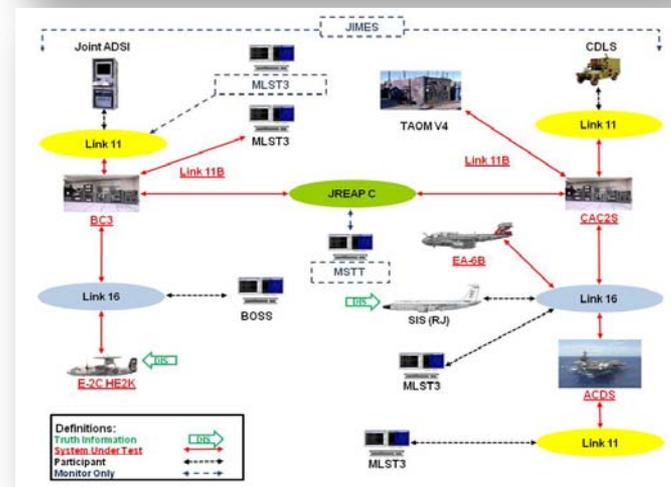
- Five Joint Interoperability Tests (JITs) per year
- Two Combined Interoperability Test (CIT) events between U.S., Coalition, and Partner nations
- Multiple Hardware-in-the-Loop events to evaluate Platform Tactical Data Link (TDL) interoperability and standards conformance

## JITC's Value Added

- Leads events mandated by DoD and CJCS Instruction
- Plans, coordinates, integrates, tests, analyzes, and reports
- Conducts Link 11, Link 16, Joint Range Extension (JRE), Variable Message Format (VMF) tests
- Performs Joint interoperability evaluations, standards conformance, and operational capability and limitations assessments

## Operational Impact to the Warfighter

- Identified TDL issues



# Accelerated Acquisition: Unified Capabilities



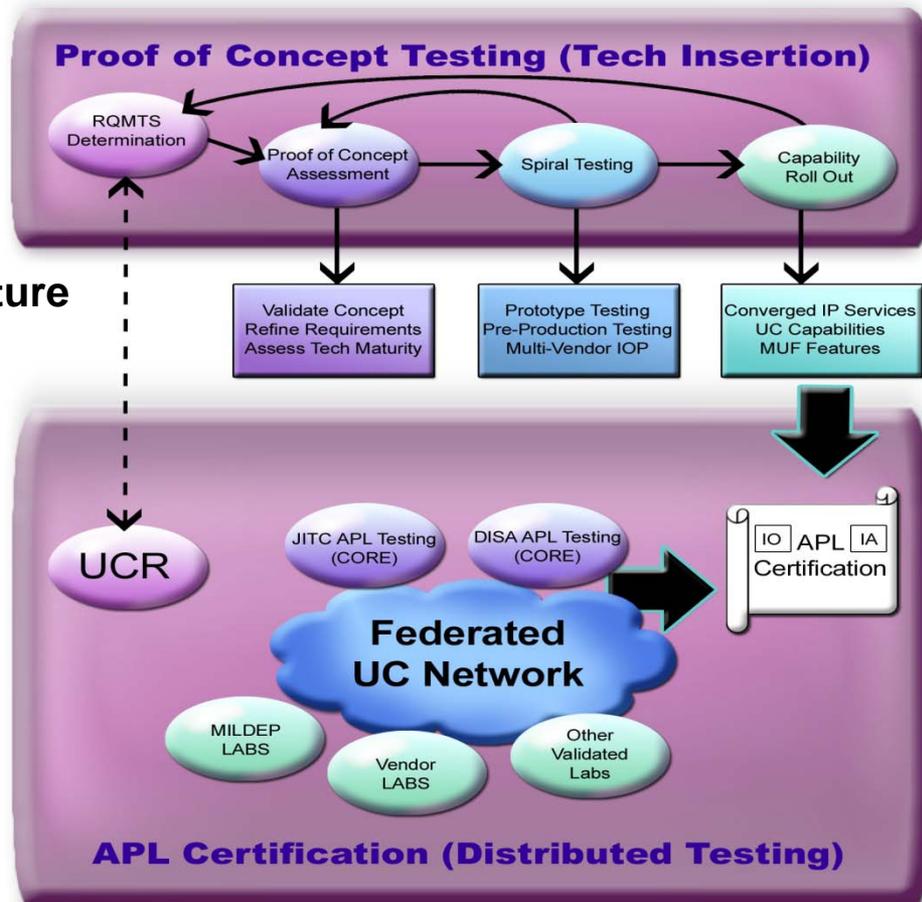
- **Unified Capabilities (UC) Approved Products List (APL) test and certification support**
  - Provides certified IP-centric products in support of IP convergence (voice, video, and data)
  - Complete IA and interoperability test support
  
- **JITC's Value Added**
  - Quick list of Interoperable IT products for DoD, DISA, PMs, and Services for Post, Camp and Station IT modernization
  - Over 15 years of technical test and lab experience
  - Testing once for many:
    - Products from the APL can be used to reduce concept to fielding timelines
  
- **Operational Impact to the Warfighter**
  - Provides proven and tested IP products to the DoD and warfighter communities
  - Identifies broad selection of vendor certified products
  - Reduces risk - testing to generic set of DoD requirements



# Improved Efficiency/Effectiveness: Federation of UC Testing



- Unified Capabilities (UC)**
  - DoD CIO/DISA effort to converge Voice, Video, and Data services over IP Transport
  - Migrates TDM voice and video architecture to IP-based UC services
- JITC Value Added**
  - Supports Agile testing concept for UC deployment
  - Federated APL testing executed by JITC, Army, Navy/MC, and AF labs
  - Streamlines IO/IA certification process
- Operational Impact to the Warfighter**
  - Improves Warfighter mobility, security and real-time collaboration
  - Shorter timeline to deliver APL products and UC capabilities to the field



# National Infrastructure: Key Management



- **Next Generation of Key Management Infrastructure**

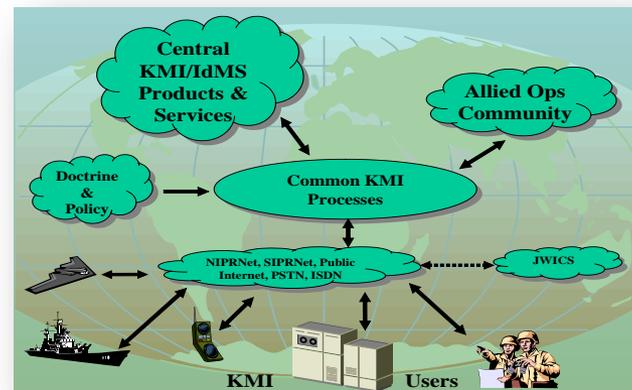
- Single, automated, network-accessible, electronic-based Key Management
- Secure ordering, generation, production, distribution, management and auditing of cryptographic products

- **JITC's Value Added**

- Identified gaps and inconsistencies in integrated architecture
  - Program Manager resolved issues with developer prior to document staffing and formal testing
- Identified requirements that were not measurable or testable

- **Operational Impact to Warfighter**

- Will evolve to offer Combatant Commands, Services, and Agencies, Fed Gov't agencies, Coalition partners and Allies alike
- Enhanced, secure, and interoperable capabilities to support mission critical systems and transformational initiatives (GIG, CM, and Net Centric Operations and Warfare (NCOW))
- Enables the provisioning of cryptographic key products, symmetric and asymmetric (public) keys, and security services



# Improved Capability: Holistic Testing of Security



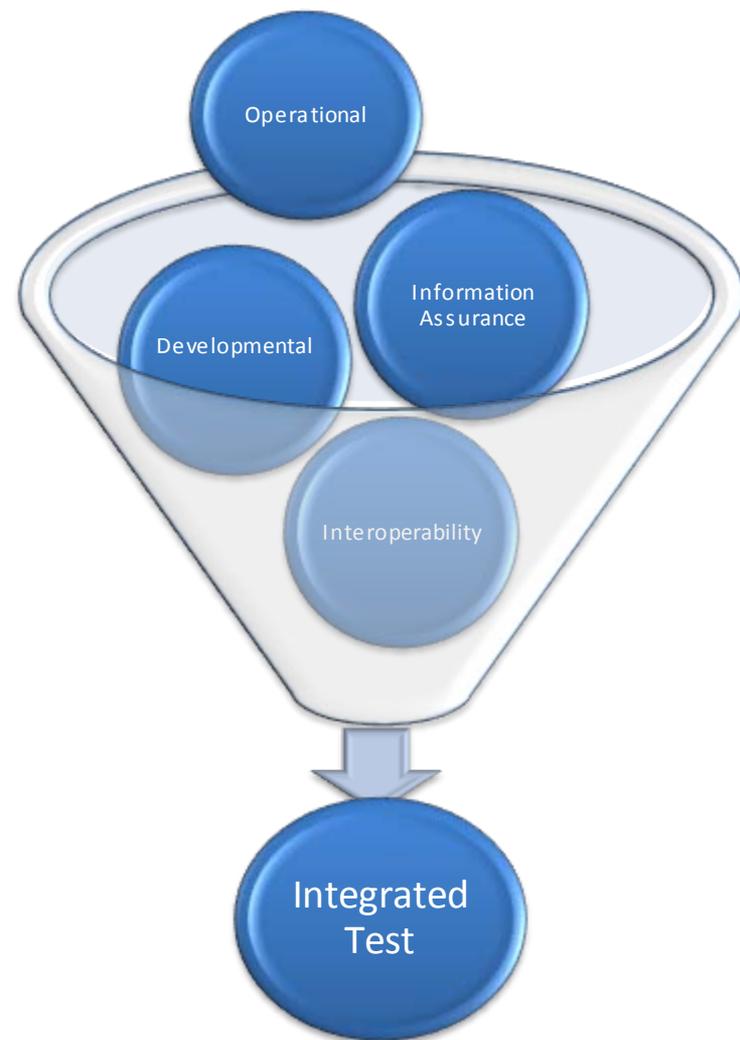
- **Holistic Testing of Enterprise Capability**
  - IT security posture is determined by a holistic assessment of the system and hosting sites IA dependencies
  - Previously testing was focused on individual system vs. its operating environment
- **JITC's Value Added**
  - Holistic approach to IA, unique assessment of host-site and system's ability to protect, detect, react, restore
  - Identified significant limitations
- **Operational Impact to the Warfighter**
  - With PMs, quickly resolved and validated fixes
  - Provided secure information assurance posture and enhanced Computer Network Defense



# Accelerated Acquisition: Integrated Testing (GCCS-J)



- **Integrated testing of Global Command and Control System – Joint (GCCS-J)**
  - Provides Joint Warfighter ability to plan, execute and manage military operations
  - Traditional testing delayed deployment of enhancements to Warfighter
- **JITC's Value Added**
  - JITC used risk-based integrated testing to support post fielding enhancements thus reducing cost, schedule, and time to fielding
  - Combined DT, OT, IOP, IA into one comprehensive test
- **Operational Impact to the Warfighter**
  - Expedited upgrades, enhancements and fixes to the warfighter - more capability faster
  - Reduced warfighter operational risk



# Accelerated Acquisition: JITC External Training



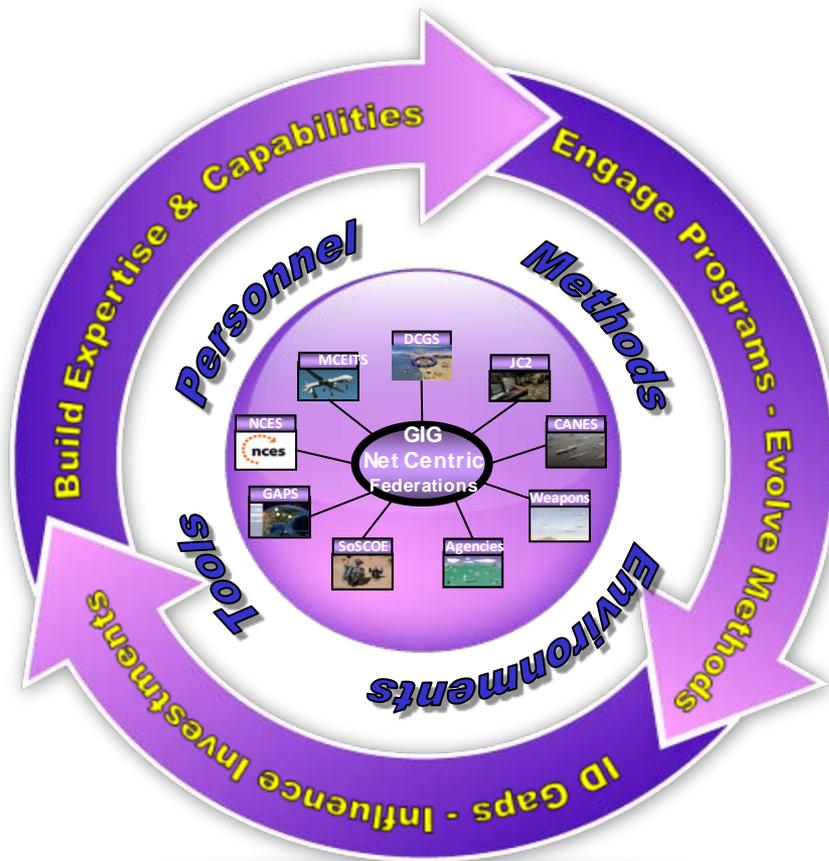
- **Comprehensive interoperability training program for testers and program managers**
  - Executive Program Management Course
  - Air Force Institute of Technology
- **JITC's Value Added**
  - In-class training through Defense Acquisition University
  - Computer-based training through Defense Connect Online
  - Online Resources: NR-KPP Guidebook, NR-KPP Helpdesk
- **Operational Impact**
  - Improved capability through better understanding of interoperability
  - Reduced cost to program managers by addressing interoperability early in lifecycle



# Reduced Risk: Enterprise Assessments

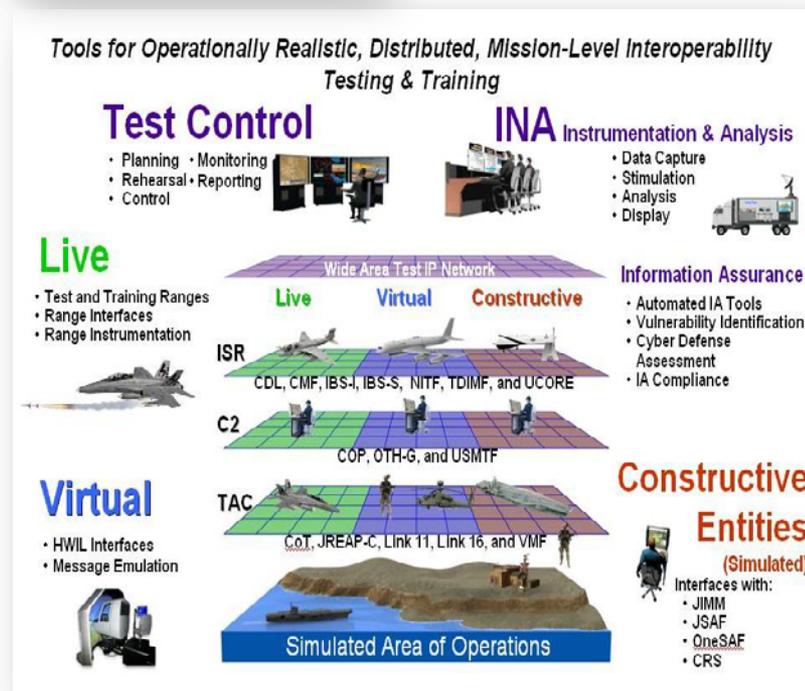


- Enterprise assessments of key DoD Cyber-centric systems and services
  - Enterprise Services
  - Distributed Common Ground System
  
- JITC's Role and Value Added
  - Integrate COTS T&E capabilities
  - Automate mission based scenarios
  - Instrument all layers of enterprise
  - Evaluate and resolve interoperability and functional issues
  
- Operational Impact to the Warfighter
  - Ensures Cyber-centric infrastructure supports Warfighter missions
  - Stay ahead of the curve on rapidly changing technologies



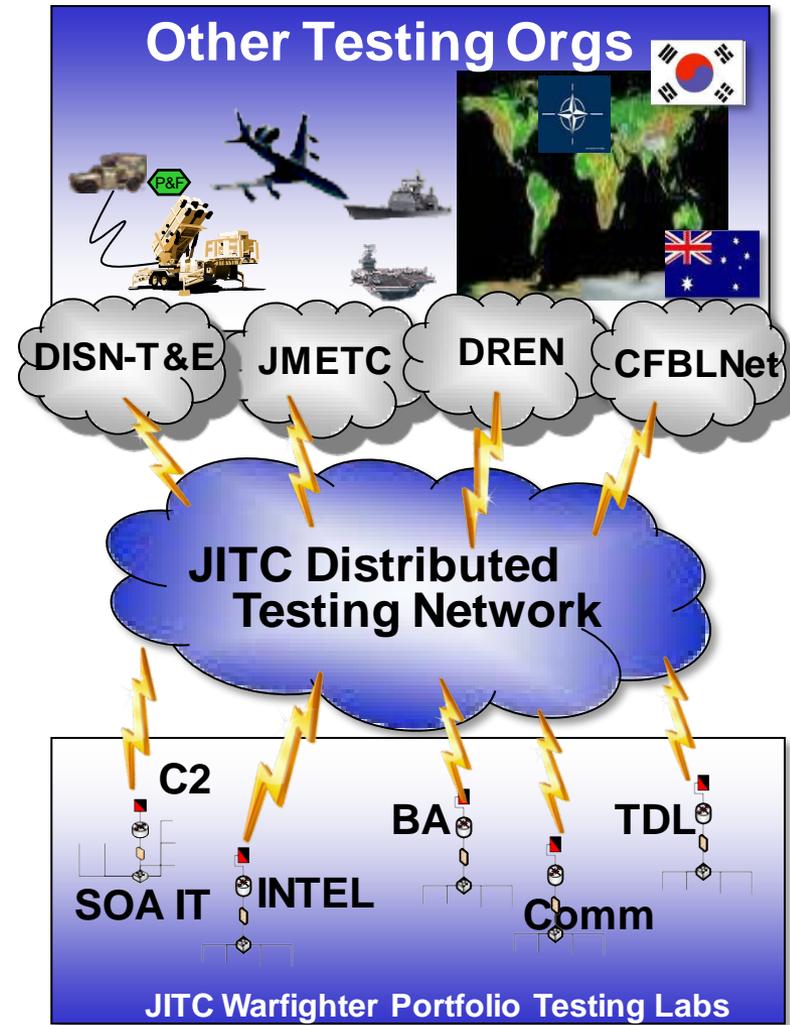
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- **Partnership with Test Resource Management Center**
  - Science & Technology projects
  - Central Test & Evaluation Investment Program (CTEIP)
  - Resource Enhancement Program (REP)
- **JITC's T&E expertise brings value to TRMC**
  - Helps manage next generation T&E capability investments
- **Operational Impact to the Warfighter**
  - Higher quality, lower cost testing for rapid acquisition



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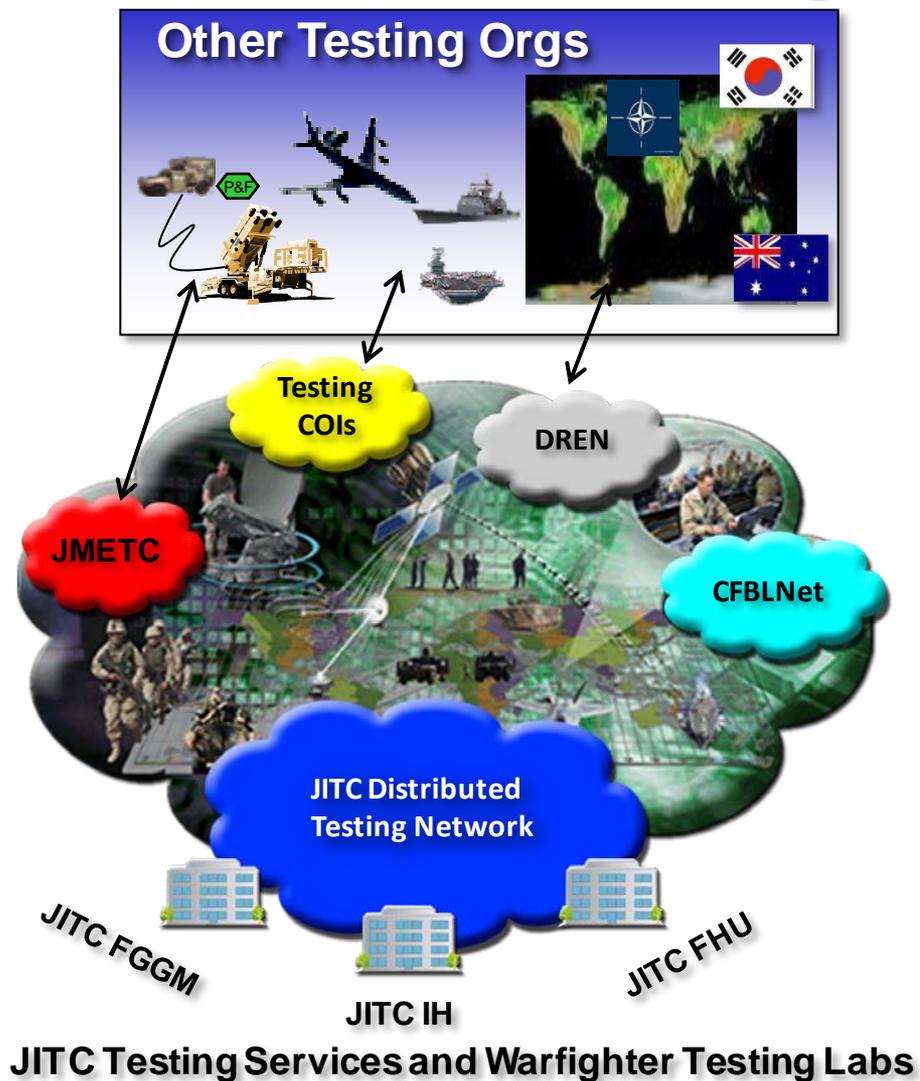
- **Distributed testing of geographically separated systems**
  - All major DoD testing networks (DISN T&E, CFBL, DREN, JMETC)
  - Rapid access, reconfigurable, realistic full-spectrum testing
  
- **Connectivity across T&E World**
  - World-class Network Ops Center
  - Comprehensive test engineering
  
- **Cost and Schedule Savings**
  - Testing involves local and remote labs across the globe
  - Fewer tests required
  - Agile, secure and operationally relevant testing environment



# Improved Efficiency/Effectiveness: DISN T&E Network (DTEN)



- **DISN Test & Evaluation Network (DTEN) connectivity across T&E world converging all major testing networks**
  - Testing involves local and remote labs across the globe
  - Fewer tests required
  
- **JITC's Value Added**
  - Distributed Testing Network brings together all of JITC's testing expertise, resources and services to a single customer focused point
    - Agile and Secure Testing Environment
    - Savings to Cost and Schedule



## Improved Capability: ATT



- **Advanced Technologies Testbed (ATT)**
  - Off-line GIG capability supports T&E of DoD and commercial assets
  - Dynamic T&E on GIG production representative systems
  - Agile and rapidly reconfigurable testing of new technologies without impacting operational assets
- **JITC Direct Support of Optical Core Elements**
  - Resolves new technology interoperability challenges introduced by DISN Long Term Evolution (LTE)
  - Enables direct insertion of technology into the operational architecture
- **Provides Approved Products List for**
  - Assured services
  - Streamlined acquisition



# Improved Efficiency/Effectiveness: MRTFB



- **Major Range & Test Facility Base (MRTFB) Concept**
  - Large military test facilities
  - Support deployment of warfighting capabilities
  - Regarded as national assets
- **JITC's Value-added to PEOs/PMs**
  - OSD-level assessment found JITC “Financial Management Regulation compliant” - proper financial management of customer funds
  - Extensive infrastructure and distributed testing federation equates to T&E “one-stop-shop”
  - DoD customers only pay direct costs; JITC funds extensive infrastructure maintenance and modernization costs
- **Operational Impact to the Warfighter**
  - Resolving Hotline calls quickly
  - Verifying capabilities prior to fielding



**JITC: Superior Steward of Resources**



# **Division / Portfolio Overviews**





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# Operational Test & Evaluation Division



## MISSION:

- Conduct operational testing of Information Technology (IT) and National Security Systems (NSS) acquired by DISA, other DoD organizations, and non-DOD entities to ensure operational effectiveness, suitability, and security.

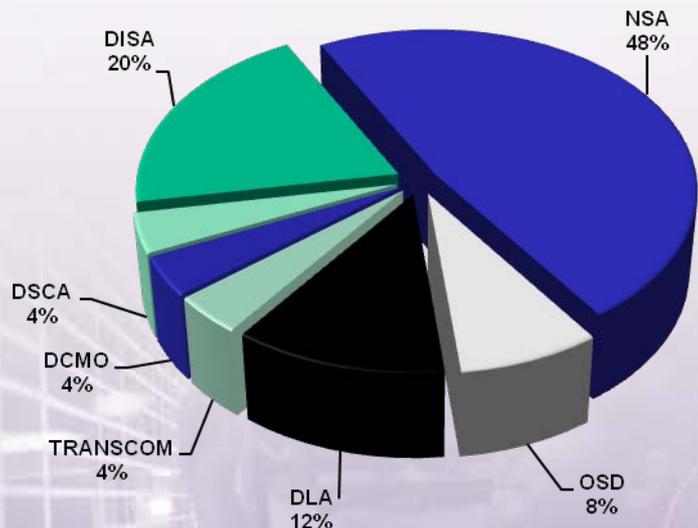
## FUNCTIONS:

- Serve as the Operational Test Agency (OTA) for DISA and other DoD Agencies with the charter to perform all IT and NSS Operational Test and Evaluation.
- Serve as the independent operational evaluator, reporting to OSD and Director, DISA. Plans, directs, coordinates, and controls operational testing for Joint NSS and IT systems.
- Assist in the preparation of critical operational issues. Develops, defines, and publishes measures of effectiveness, measures of suitability, measures of performance.
- Directs and approves OT&E methods for data collection, reduction, and analysis.
- Integrate testing by closely working with T&E partners on Developmental Test, Information Assurance, and Interoperability.
- Brief OSD DOT&E on the planning, conduct, and results of OT&E for oversight programs.





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% of programs with each customer

- Planning, executing, and independently reporting OT results to decision makers and operational users on system's operational effectiveness, suitability, security, and interoperability
- Engaging acquisition programs earlier and providing feedback on their operational readiness to support designated missions and mission tasks, identifying system's capabilities and limitations
- Evolving T&E methodologies to support agile development in response to expediting delivery of needed capabilities to the warfighters

Legend	
DCMO	Deputy Chief Management Officer
DISA	Defense Information Systems Agency
DLA	Defense Logistics Agency
DSCA	Defense Security Cooperation Agency
NSA	National Security Agency
OSD	Office of the Secretary of Defense
TRANSCOM	Transportation Command





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# Business Management Division



## **MISSION:**

- Provide management and oversight of all JITC personnel, business, public affairs, protocol, training, contracts, and security operations in support of JITC's mission, goals and objectives while obtaining/providing best value goods and services for JITC's workforce.

## **FUNCTIONS:**

- Human resources and personnel support
- Business operations, training, and public affairs/protocol
- Contracts and security program management

# Warfighter Support Division



## **MISSION:**

- Provide direct technical and regulatory interoperability support to the Combatant Commanders (COCOMs) during the planning and execution of joint/combined operations and exercises in order to identify and resolve emerging and systemic interoperability issues.

## **FUNCTIONS:**

- Provide COCOMs with an on-call capability to gain remote support in resolving their interoperability problems, and if required access to on-site support through the deployment of a task-organized JITC teams.
- Provide COCOMs with support to conduct mission focused interoperability testing and assessments in a Joint/Coalition operational environment.
- Maintain visibility on how COCOMs implement IT/NSS systems within their operational network architectures to ensure JITC continues to maintain the most current and operationally relevant test network possible.
- Serves as a conduit to ensure the Warfighters' requirements and issues are injected into the system development process.
- JITC's lead for Agency Mission Essential Task List/Joint Readiness Review issues.
- Manages JITC's Publications plus manages AIMS for both JITC and TEO

# Strategic Planning and Engineering Division



## MISSION:

- Provide strategic planning and engineering services to JITC

## FUNCTIONS:

- Ensures JITC Test and Certification complies with DoD policies/guidance
- Develops and oversees implementation of JITC quality standards
- Provides architecture subject matter expert services to testing portfolios
- Defines and coordinates integration of test engineering best practices
- Develops and maintains JITC mission support applications
- Coordinates and executes instrumentation development
- Supports operations, training and maintenance of test instrumentation



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# Testbed Operations Division



## **MISSION:**

- Provide federated test operations support to JITC's Divisions and Portfolios agile test requirements.

## **FUNCTIONS:**

- Coordinates and executes test infrastructure modernization
- Plans, schedules, and coordinates use of testing resources
- Configures, operates, and maintains test infrastructure
- Provides subject matter expert support to Warfighter support
- Maintains MRTFB infrastructure



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# Facilities Division



## **MISSION:**

- **Operate and maintain facility infrastructure and provide logistics support to the Command**

## **FUNCTIONS:**

- **Manage all JITC facilities and provide day-to-day care and operations including building maintenance and new construction**
- **Provide custodial care, oversee OSHA requirements, Manage safety, fire, and HAZMAT programs**
- **Provide complete supply chain management (Shipping, Receiving, property book, purchasing, and supply)**
- **Provide Network Operations (DISANet, SIPRnet) IT support desk and E-mail account management**
- **Oversee Information Assurance and Computer Network Defense (Firewall and Intrusion Detection System administration, IA workforce compliance tracking)**
- **Respond to Computer Network Defense Incidents**



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# Enterprise Services Portfolio



## **MISSION:**

- **Manage the full range of life-cycle testing for joint net-centric programs sponsored by DISA and provide interoperability assessments and certifications for net-centric Service programs in support of the warfighter.**

## **FUNCTIONS:**

- **Plan and execute the testing and certification of DoD Enterprise Services**
- **Work with applicable PMOs and user communities to assist with development of test requirements**
- **Conduct Development Testing for NCES**
- **Interoperability testing, assessment, and certification for DISA and Service Enterprise Services**
- **Manage, monitor and develop portfolio resource requirements, schedules, and limitations**



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# Focused Logistics/Business Portfolio



## MISSION:

- **Serve as the Business Mission Area Test Organization for the DoD and other Federal Agencies with testing services to include, but not limited to the following types of testing: Developmental, IV&V and Interoperability, Records Management and Standards Certification. Assist programs in the transition to a Capability based net-centric environment.**

## FUNCTIONS:

- **Ensure DoD testing and certification policy and performance compliance of NSS/IT systems within the Business Mission Area to include commercial vendor interoperability and standards conformance assessments.**
- **Serve as lead representative to all joint logistics and business system programs providing agile integrated testing services and offer test guidance to program sponsors.**
- **Set standards for developmental test plans, automated testing; test reporting and test planning documents.**
- **Manage, monitor, and develop portfolio resource requirements, schedules, and limitations. Monitor and report cost, schedule, and performance for portfolio programs.**
- **Work with applicable PMOs and user communities to assist with development of test requirements.**



# Focused Logistics/Business Portfolio



- **Supporting the Business Mission Area with Agile Integrated Testing Services:**
  - **Developmental Test, Information Assurance, Operational Testing, Interoperability Certification**
    - Risk analysis and NR-KPP compliance
    - Architecture product review/validation
    - Business process testing and requirements gap analysis
    - Records Management certification
    - Standard test processes and repeatable procedures
    - Automated test scripts and regression testing
  - **Testing is not tied to a specific acquisition milestone. Agile T&E is tied to specific phases of the system development life cycle**

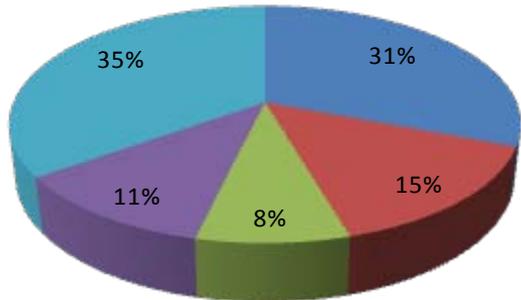


# Focused Logistics/Business Portfolio



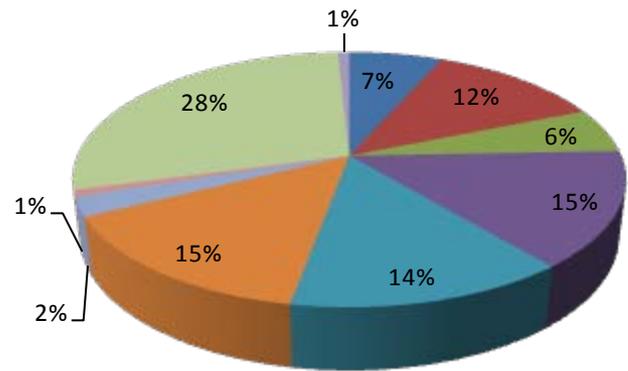
## Mission Area Programs

- 38 Medical Systems
- 18 Transportation Systems
- 10 HR Systems
- 14 Finance Systems
- 43 Logistics Systems



## Services and Agencies (27 MAIS)

- Army
- Air Force
- Marine Corps
- Navy
- USTRANSCOM
- DLA
- OSD
- DISA
- MHS
- Joint Staff



**TOTAL PROGRAMS: 123**

# C2 Battlespace Awareness Portfolio



## **MISSION:**

- Conduct full range of testing to support Command and Control (C2) and Battlespace Awareness (BA) community programs and activities by providing developmental and interoperability T&E and certification services with the goal of enhancing C2 and BA systems capabilities and performance for joint and coalition warfighters.

## **FUNCTIONS:**

- Provide joint interoperability certification T&E services to C2 and BA systems through continuum of developmental, operational, interoperability and follow-on T&E activities
- Support certification related J6 activities (e.g., JCIDS document reviews, Interoperability Test Panel processes, exemption/waiver requests, etc...)
- Provide Navy messaging test services
- Support development of systems of systems interoperability T&E through engagement with the C2 Capability Portfolio Manager (JFCOM)
- Support OSD Unmanned Aerial System (UAS) Task Force (AT&L)
- Conduct Afghan Mission Network testing (CENTCOM)

# Force Application / Force Protection Portfolio



## MISSION:

- Conduct consistent, sound, and repeatable standards-conformance and interoperability TE&C of force application / protection systems and Joint tactical data links in order to validate implementation of approved standards in a Joint / Combined environment and facilitate interoperability across DoD and other agencies.
- In addition, identify capabilities / limitations and operational impacts with regard to interoperability / net-readiness.

## FUNCTIONS:

- FA / FP system acquisition life-cycle support, to include: review and approval of acquisition documentation, test plans, and test reports
- Execute agile testing and certification of force application and force protection systems for interoperability using hardware-in-the-loop and operationally-realistic U.S. only, Combined, or NATO environments
- Provide TE&C certification services for Tactical Data Link (TDL) systems
- Support the DISA Command & Control Interoperability Boards (CCIBs)
- Provide Operational Assessments of TDL systems in support of COCOM exercises
- Provided technical support in answering JITC Warfighter Support Hotline trouble calls

# Battlespace Communications Portfolio



## **MISSION:**

- Supporting the warfighter through Testing, Certification, and Technical Assistance regarding transport layer communications systems and technologies.

## **FUNCTIONS:**

- Interoperability testing and certification
- Unified Capabilities testing and certification
- Information Assurance testing
- Standards Conformance testing and certification
- Requirements definition support
- Performance and functional testing service for Program Managers
- Formal Help Desk and Training in support of Program Managers
- Ad-hoc troubleshooting support to operational users



Defense Information Systems Agency  
A Combat Support Agency

# National Intelligence Portfolio



## MISSION:

- Since its inception in January of 2003, the team remains committed to aggressively and objectively testing current and emerging technologies for the National Intelligence and Warfighter community; ultimately mitigating the risk through stringent yet realistic early test and certification for offensive and defensive joint and coalition decision makers around the world.

## FUNCTIONS:

- Provide the best test support to the DoD/Intel Community throughout the system lifecycle
- Verify, assess and certify national collection & dissemination of IT capabilities and forge improved performance across the entire spectrum of cyber technology
- Guide hyper-agile efforts on DCGS, IBS, USSOCOM C2 first-hand in development/fielding
- Drive the leading-edge in standards conformance testing of various products related to National Imagery Transmission Formats and Motion Imagery capabilities
- Synergize with in-house and deployed support assets ensuring diverse developmental, operational and interoperability test, evaluation, and certification efforts
- Apply processes/procedures using state of the art labs & a high-tech enterprise network
- Ensure testability of program requirements & timely related document reviews
- Act as an independent Operational Test Agent for other key 3-letter agencies
- Serve DISA, the DoD CIO and Joint Staff in IT and NSS IOP Excellence



# Homeland Security/Information Assurance Portfolio



## MISSION:

- Provide the full range of testing services, technical support, coordination, and oversight to the Department of Defense (DoD), the Department of Homeland Security (DHS), as well as Federal, State and Local governments to ensure seamless acquisition, integration, and Information Assurance of systems supporting the DOD and the National Command Authority.
- Support the test Portfolios and Divisions with Information Assurance expertise to ensure Command standardization and integration with all test activities.

## FUNCTIONS:

- Plans, directs, coordinates, and controls IA assessments during all phases of testing for Joint NSS and IT systems.
- Serves as the lead Operational Test Agency (OTA) for United States Strategic Command (USSTRATCOM), and United States Transportation Command (USTRANSCOM) and United States Cyber Command (USCYBERCOM) for all aspects of IOP/IA assessments during major exercises under their purview.
- Serves as IA/IOP support to other OTAs during major COCOM exercises.

# Homeland Security/Information Assurance Portfolio



## **FUNCTIONS (cont'd):**

- **Performs IA assessments in support of developmental and operational tests, Net-Ready Key Performance Parameter (NR-KPP) test certifications, COCOM exercises, and on customer requested products.**
- **Performs DoD Information Assurance Certification and Accreditation Process (DIACAP) related efforts for the Defense Information Systems Agency (DISA), DoD and non-DoD organizations.**
- **Performs IA assessments for vendor developed products to ensure compliancy with DoD policies and guidelines to include the Unified Capabilities Requirements (UCR) for placement on the Approved Products Listing (APL).**
- **Support the integration of DoD and DHS systems and architectures through coordination of requirements and providing life cycle test and evaluation services.**
- **Support non-DoD C4I systems acquisition and integration through leveraging DoD systems, architectures, and test and evaluation capabilities to support the HLS/HLD mission.**
- **Plan, conduct, analyze, evaluate and execute testing for interoperability of DoD and DHS systems, architectures and capabilities in direct support of the National Command Authority (NCA) and federal, state, and local authorities.**
- **Provide operational, technical, and standards knowledge sharing services to the HLS/HLD component organizations.**



# **BACK-UP: Other Slides**

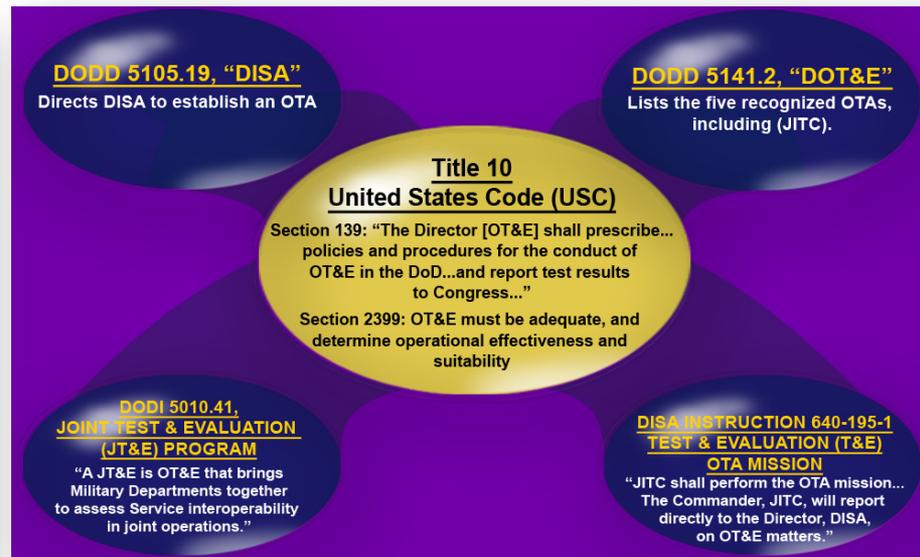
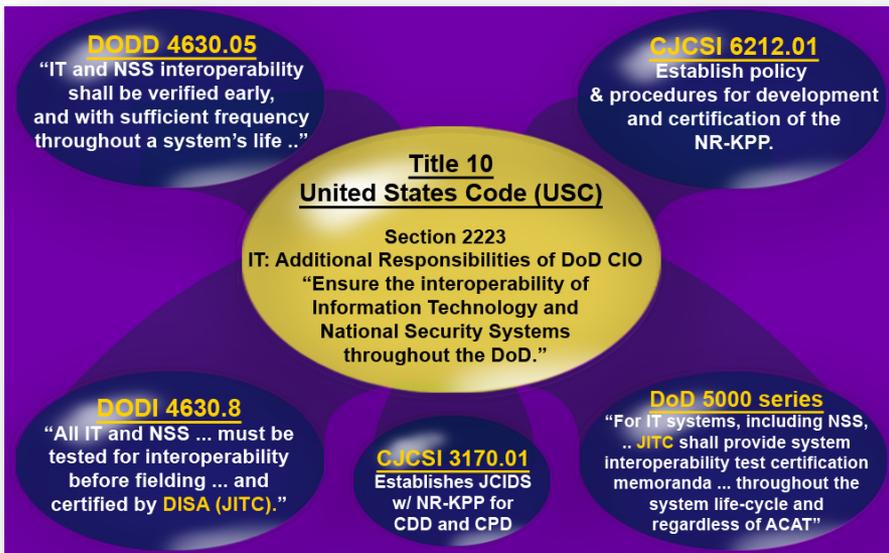


# Authority



## DoD CIO - Interoperability Certification

## DOT&E - Operational Test Reports

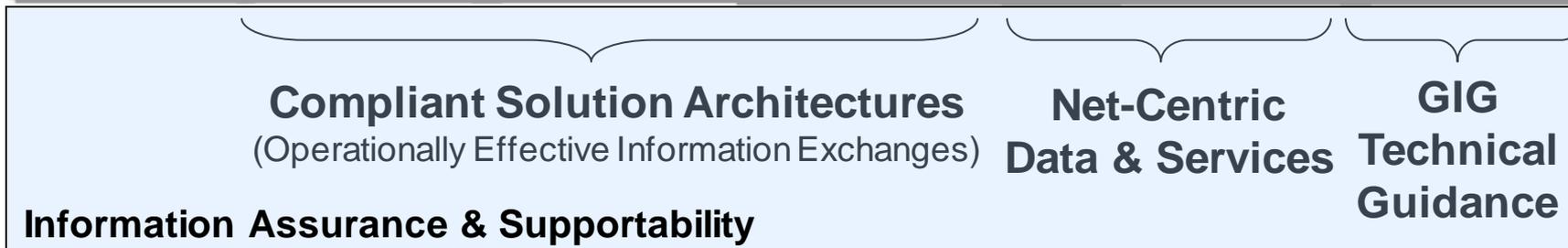


# Mapping NR-KPP to Operational Impact

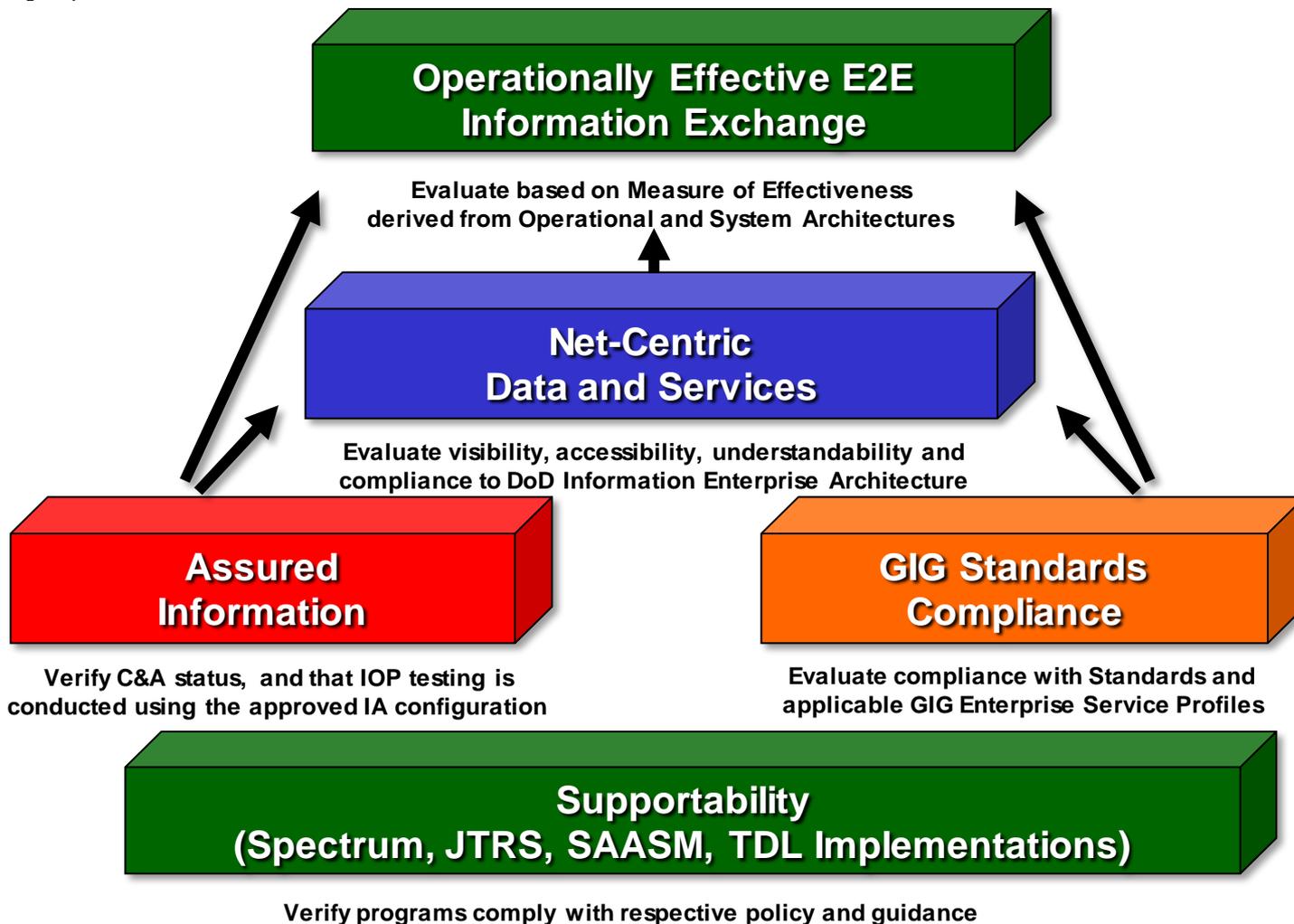
(notional example)



Capability	Operational Activity	System Function	Interface	Data & Services	Standards
JMT	OV-5	SV-4	SV-6	EVTS	TV-1
Joint C2	Understand Blue Force Resource States	Blue Force Location Auto Track Feed	(T) FBCB2 EPLRS (T) BFT SATCOM	Service: Blue Force Ground Data – Current	WSDL UDDI XML
		Blue Force Location ISR Sensors	(T) BFT SATCOM (O) DCGS-A	Service: Blue Force Ground Data – Projected Data: JBFSA Schema/BFT COI	WS-I Basic Profile SOAP



# NR-KPP Elements

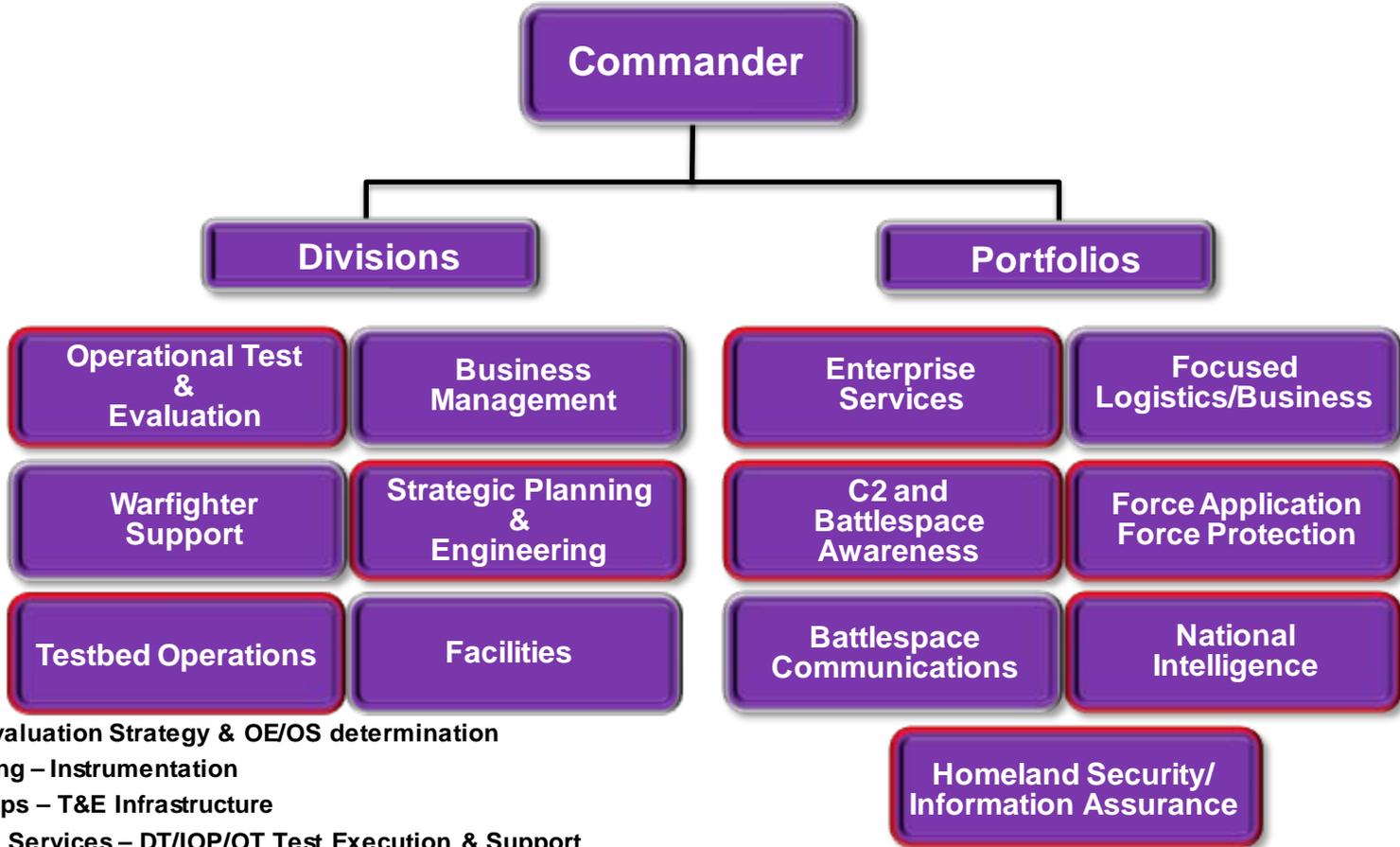


**Joint Interoperability Certification is based on NR-KPP requirements in CPD and ISP/TISP**

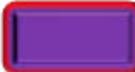
# Leveraged Support



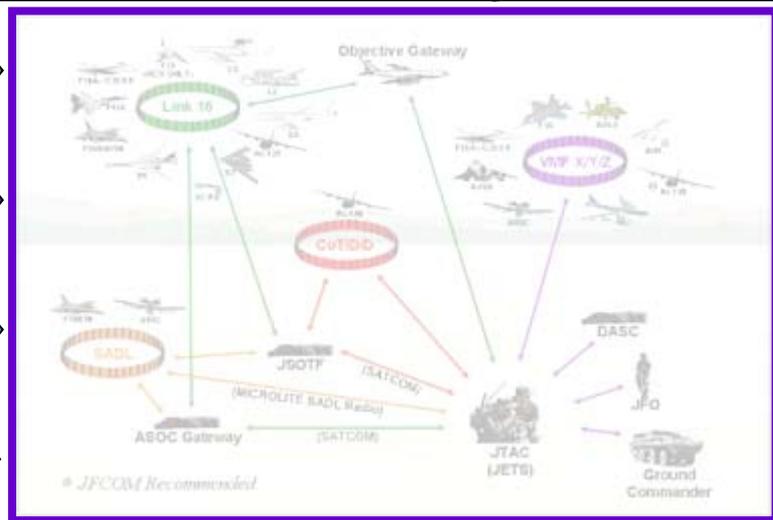
The below example shows how JITC leverages support and expertise across Divisions & Portfolios to accomplish the T&E mission:



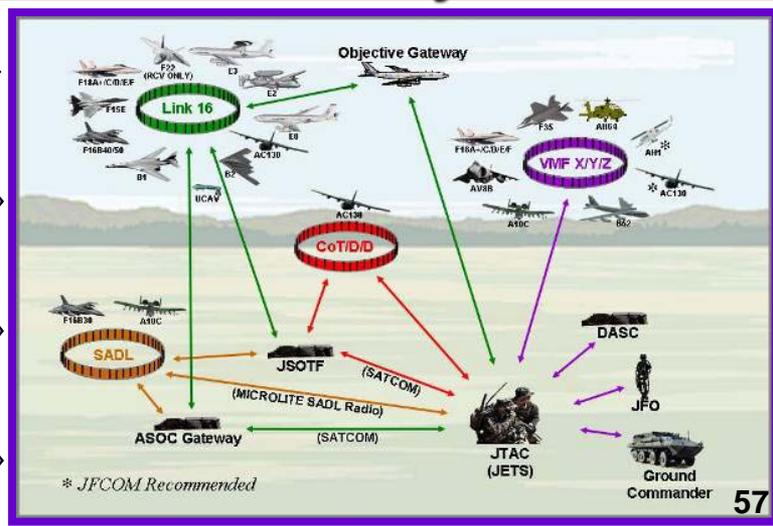
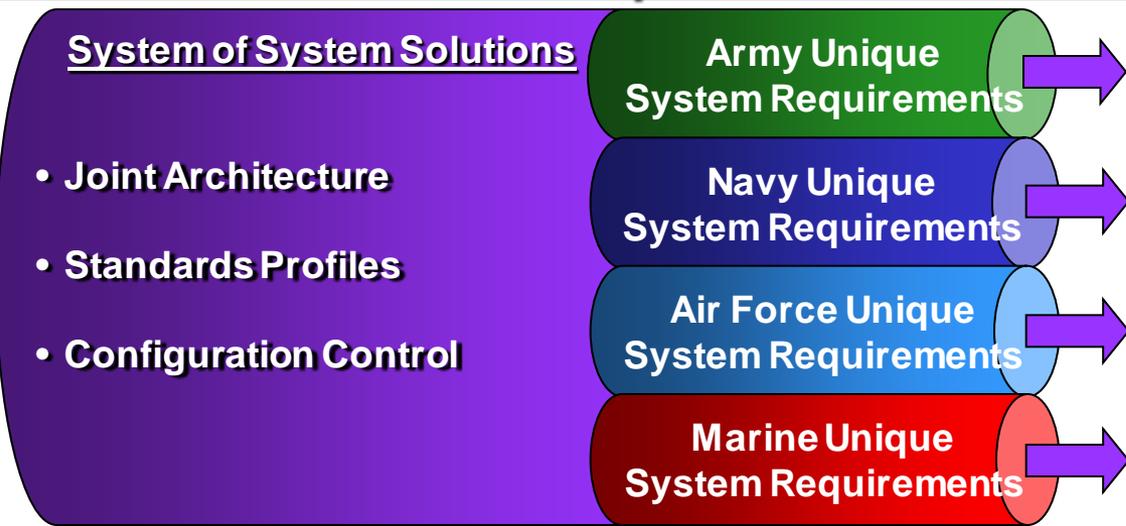
- OT&E – Evaluation Strategy & OE/OS determination
- Engineering – Instrumentation
- Testbed Ops – T&E Infrastructure
- Enterprise Services – DT/IOP/OT Test Execution & Support
- C2 – Interoperability Certification
- Force Application – Tactical Data Link interface testing
- National Intel – Imagery T&E Support
- IA – DITSCAP/IA Security T&E

 = Leveraged Resource

## Service Focused Requirements Produce Service Focused Systems



## Joint Focused Requirements Produce Joint Focused Systems



# MRTFB Locations

## 23 Sites



**30,000 personnel**  
**Military, Gov, Contractor**

**18,000 sq. mi. of land**  
**180,000 sq. mi. of air space**  
**(> 1/2 of all DoD land)**

**Replacement Value = \$25B**



**Cold Region Test Center, AK**

**NUSWC, Keyport**

**NAWC, China Lake**

**30<sup>th</sup> Space Wing**

**NAWC, Point Mugu**

**Air Force Flight Test Center**

**Yuma Test Center**

**Tropic Region Test Center, HI & Puerto Rico**

**PMRF**

**U.S Army Kwajalein Atoll**

**Nevada Test and Training Range**

**Utah Test and Training Range**

**West Desert Test Center**

**Electronic Proving Ground**

**High Energy Laser Systems Test Facility**

**White Sands Test Center**

**DISA/JITC**  
**Fort Huachuca, AZ**  
**Indian Head, MD**  
**Fort Meade, MD**  
**1992**

**46<sup>th</sup> Test Wing (Includes 46<sup>th</sup> Test Group)**

**Arnold Engineering Development Center**

**45<sup>th</sup> Space Wing**

**NUSWC, Newport**

**Aberdeen Test Center**

**NAWC, Patuxent River**

**Legend:**

**Army, Navy, Air Force, Defense Agency**

**Army-9; Navy-6; Air Force-7; Defense Agency-1**