

ADDITIONAL INFORMATION

For more information about JITC Software Interoperability testing, its capabilities and procedures, please contact the following JITC representative:

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SOFTWARE INTEROPERABILITY AND CONFORMANCE TESTING



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*Increasing Combat Effectiveness
Through Interoperability*

Joint Interoperability Test Command

INTRODUCTION

The Joint Interoperability Test Command (JITC) has extensive experience in software testing and development of software testing tools for Information Management and C⁴I systems. JITC has developed test systems software and performed software systems acceptance testing of the following systems or test systems: Global Transportation Network (GTN) System, Global Command and Control System (GCCS), Defense Message System (DMS) stimulator, Joint Interoperability Modular Evaluation System (JIMES) JIMES Sensor Simulation, Theater Air and Missile Defense Interoperability Assessment Capability (TAIC).

JIMES, developed Automated Systems and Test Support Division (AS&TSD), by using the object-oriented design and C++, on a Windows NT platform. Is used extensively to conduct joint and combined interoperability certification of C⁴I systems.

JITC developed test systems in support of DMS, EB / EC, and GCCS using SQL-SERVER, Object Oriented Programming (VB and VISUAL C++) to test and certify these critical DISA Systems for conformance and operational capability.

Recent development efforts include several JITC business systems and certification tracking applications. These systems are based on state-of-the-art Web development tools including Java, ASP, XML, ActiveX, and Microsoft.NET technology.

We are currently developing sensor simulation systems to provide high fidelity C⁴ISR sensor simulation.

SOFTWARE TESTING EXPERIENCE

The JITC has extensive experience testing software in the following areas:

- 📁 Global Command and Control System (GCCS)
- 📁 Defense Message System (DMS)
- 📁 Public Key Infrastructure (PKI)
- 📁 National Imagery Transmission Format Standard (NITFS)
- 📁 Tactical Digital Information Links (TADIL) A/B/J/VMF of C⁴I Systems
- 📁 Electronic Key Management Systems (EKMS)
- 📁 Scope Command High Frequency (HF) simulation
- 📁 Electronic Business/Electronic Commerce (EB/EC)
- 📁 Web-based Applications
- 📁 Modeling & Simulations (HLA/DS)

SOFTWARE TESTING CAPABILITIES

- 📁 Independent Validation and Verification (IV&V)
- 📁 Design Reviews
- 📁 Component Level Testing

- 📁 Computer Software Configuration Items (CSCI) Testing
- 📁 Preparation of Test Plans, Procedures, Test Reports
- 📁 Software Quality Assurance
- 📁 Integrated Systems Acceptance Testing
- 📁 Software Regression Testing
- 📁 Operational Testing
- 📁 Interoperability Testing
- 📁 Functionality Testing
- 📁 Conformance Testing
- 📁 Performance Testing
- 📁 Information Assurance
- 📁 Stimulation, Simulation and Modeling

TEST SUPPORT SOFTWARE

- 📁 Joint Operational C³I Assessment Tool (JOCAT)
- 📁 Joint Interoperability Modular Evaluation System (JIMES)
- 📁 System Tracking Program (STP)
- 📁 JITC Project Accounting System (JPAS)
- 📁 Modeling & Simulation (DIS/HLA)
- 📁 Joint Interoperability Tool (JIT)