



Joint Training Information Management System (JTIMS)

A Net-Centric SOA-Based Approach to System Development and Integration

How can the Department of Defense (DoD) fulfill its vision of a user-friendly fully integrated system to manage its joint training needs? Booz Allen Hamilton, a leading strategy and technology consulting firm, is working with DoD, Joint Staff/J7, Joint Training Division, to build the next-generation JTIMS. The Combatant Commands, the Joint Staff, and others use JTIMS to manage and assess large-scale training exercises.

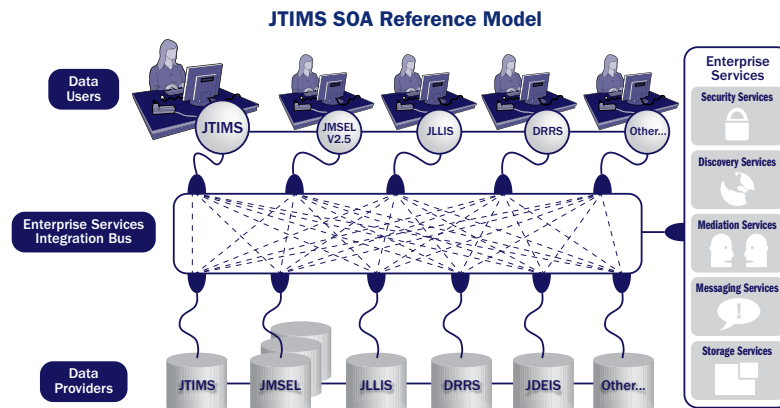
- **Planning**—Define the joint training plan, which identifies who will be trained, what the training objectives are, and when the training will occur (exercises)
- **Execution**—Conduct the training exercise and capture observations for each training objective
- **Assessment**—Assess the training status of units based on the observations, ultimately supporting DoD’s readiness reporting process

Client’s Challenge

The vision for JTIMS is to seamlessly integrate the four phases of the Joint Training System (JTS):

- **Requirements**—Review the mission essential task list (METL) for each unit

The goal is to provide an easy-to-use system that supports informed decision making and is fully integrated with other systems of interest to minimize rework, to maximize information sharing, and to fully support and implement the JTS.



What Booz Allen Did

Booz Allen is using its deep domain knowledge and leading-edge technical expertise to design and implement a service-oriented architecture (SOA)-based JTIMS. To satisfy the mission needs, JTIMS is designed as a system-of-systems based on a SOA to provide commanders at all echelons the on-demand data access required to manage and execute their joint training programs.

Focusing on messaging-based integration patterns and leveraging Web Service (WS-*) standards, such as WS-Notification, WS-Policy, and WS-Security, JTIMS implements traditional messaging integration paradigms such as Publish/Subscribe by using interoperable Web Services and a standards-based Enterprise Message Broker.

Results

Booz Allen understands the DoD's information assurance policies and procedures to design SOA solutions that are secure and reliable. According to the definitions provided by the DoD Instruction (DoDI) 8500.2 standards, JTIMS is a Mission Assurance Level II (MAC II)/classified system. Booz Allen conducted the certification and accreditation of JTIMS on the DoD's secure network according to DoD Information Technology System Certification & Accreditation Process (DITSCAP)/DoD Information Assurance Certification & Accreditation Process (DIACAP) policies and procedures. The JTIMS security architecture includes the following three components:

- **Application Security** includes user authentication (identity management) and Web services authorization.
- **Network Security** is provided by firewalls, an intrusion detection system, security vulnerability assessments, and transport layer security (SSL).
- **Physical Security** for the JTIMS production and staging deployment environments is provided by Secret Internet Protocol Router Network (SIPRNet) infrastructure.

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Booz Allen Can Help You Be Ready for What's Next

Booz Allen has the following service offerings to assist clients in developing SOA solutions:

- SOA-enabled business intelligence to enable insight into both historical and real-time data
- SOA net-centric architecture assessment and definition
- System integration using best practices in SOA implementation and design
- SOA requirements and specification development
- Service-enabled solutions that enable legacy system access

Helping our clients realize the potential of a SOA and net-centricity is one of Booz Allen's greatest strengths. We have the expertise and experience to help clients solve their business problems with advanced technology solutions. In addition to the Joint Staff J7, we have worked with many clients to design and implement SOA solutions including:

- **Defense Information Systems Agency (DISA)**—Developed a reference implementation of the Net-Centric Enterprise Services (NCES) Security and Service Discovery Services
- **Distributed Common Ground System—Army (DSGS-A)**—Supporting DSGS-A by developing service specifications for integrating intelligence, surveillance, and reconnaissance data

Whether you're managing today's issues or looking beyond the horizon, count on us to help you be ready for what's next.

About Booz Allen

Booz Allen Hamilton is a leading provider of management and technology consulting services to the US government in defense, intelligence, and civil markets, and to major corporations, institutions, and not-for-profit organizations. Booz Allen is headquartered in McLean, Virginia, employs more than 25,000 people, and had revenue of \$5.59 billion for the 12 months ended March 31, 2011. (NYSE: BAH)