



Joint IETM INTEROPERABILITY

**CALS EXPO
INTERNATIONAL 1998**

26 October 1998



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Tri-Service IETM Technology
Working Group**

Outline

- Background and Sponsorship
- Objective, Scope, and Approach
- Project Teams
- Weapon System Pilot Demonstrations
- Accomplishments
- Overall Project Schedule

Background

- F/A-18 Program initiated project in FY97 to resolve IETM interoperability problems
- Concept and approach endorsed by:
 - NAVAIR
 - Navy TMWG (AIR, SEA, SPAWAR, SUP, USMC)
 - Tri-Service IETMTWG
- ADUSD(LR) sponsored Tri-Service IETMTWG Interoperability Task in FY98 and FY99

Tri-Service IETMTWG

- Reports to ADUSD(L)/LRO
- Initial Charter- 24 Aug 89; Revised- 20 Jun 97
- Purpose- To foster the exchange of ideas and agree on a common approach regarding the acquisition of IETMs; technology focus.
- Membership:
 - Army- LOGSA, Huntsville AL
 - Navy- NSWC Carderock MD (Chair)
 - Air Force- PDSM, WPAFB, OH
 - Marine Corps- MCSC, Quantico VA
- Primary Task: DoD IETM Interoperability

Joint Logistics Commanders JCG/CE

- JCG/CE identified IETM interoperability as a “Key Issue” that could impact joint operations
- JLC ltr of 10 June 1997 to DUSD(L) recommending Tri-Service IETMTWG Charter be modified to include JCG/CE goals and cooperative technical effort
- Signed by:
 - Army- Commander U.S. Army Materiel Command
 - Navy- Deputy Chief of Naval Operations (Logistics)
 - USAF- Commander Air Force Materiel Command
 - USMC- Deputy Chief of Staff (Installations & Logistics)
 - DLA- Acting Director Defense Logistics Agency

Objective

Develop and test a new information architecture and the needed interoperability standards for IETM development and deployment, which **will permit dissimilar DoD weapon-system IETMs, regardless of the source, to be read and viewed on a common user-interface system** with common access to field technical-information libraries

Scope

- All types of Electronic Technical Manuals (from paper-based electronic images to IETMs)
- All legacy and future IETMs
- Applicable to all Services

Tri-Service Approach

- Build on Navy IETM Architecture (NIA)
- Identify Army, Navy, Air Force, and Marine Corps requirements for IETM interoperability
- Assess current/planned Service IETM programs and actions needed to achieve interoperability
- Develop Joint IETM Architecture (JIA)
- Conduct pilot demonstrations on Service programs
- Analyze results and modify JIA
- Develop recommended policy and interoperability standards

Technical Team

- NSWCCD
- ManTech
- AERA (Navy)
- BTAS (Air Force)
- MKI (Marine Corps)
- PBM Associates (Army)

Management Team

- Army LOGSA
- NAVAIR 3.3
- NAVSEA 92L
- Air Force PDSM
- USMC MCSC
- NSWCCD
- Army CECOM

Industry Contributors

- Boeing
- General Dynamics Defense Systems
- General Dynamics Electric Boat
- Litton Data Systems
- Lockheed Martin Information Systems
- Mitre
- Newport News Shipbuilding
- Northrup Grumman
- Raytheon
- Venntronix



USN IETM Pilot Test Programs



F/A-18A



E-6B



NSSN



ATIS-AIR



LM - 2500



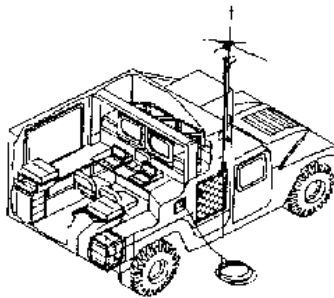
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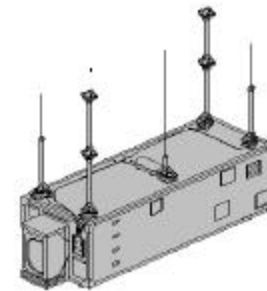
USMC IETM Pilot Test Programs



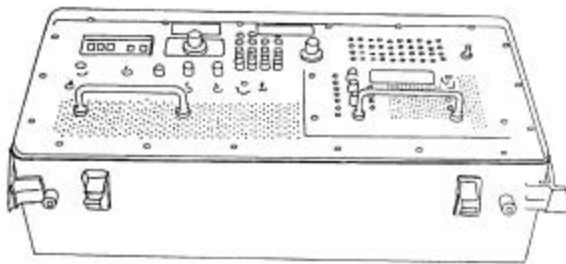
Tactical Remote Sensor System



Tactical Air Operations Center



DIODE Test Set



Advanced Amphibious Assault Vehicle

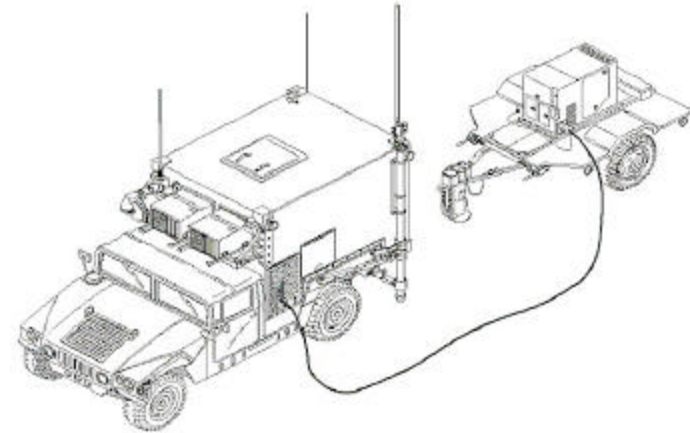




Army IETM Pilot Test Programs



AN/PPS-5



EPLRS



Apache Longbow



USAF IETM Pilot Test Programs



F-22 IMIS



JSTARS IMIS



**AIR FORCE METHODS AND PROCEDURES
TECHNICAL ORDERS**

DoD Interoperability Accomplishments

- Joint IETM Architecture Report Prepared by NSWCCD
- Demonstration Plan Prepared by NSWCCD
 - Includes Individual Pilot Plans
- Preliminary Technical Descriptions Prepared by Core Architecture Team
 - Common Browser
 - Software Component Interface & Object Encapsulation
 - Electronic Addressing & Catalog Registry
 - Web Server & Database Interface
- Pilot Demonstrations Underway

Schedule

- Tri-Service IETMTWG Interoperability Workshop (Sept 97)
- Individual Service Requirements (Feb 98)
- Joint IETM Architecture (June 98)
- Pilot Demonstrations (Dec 98)
- Analysis & Mods to Architecture (Mar 99)
- Recommended Interoperability Standards and Policy (June 99)