Joint IETM
INTEROPERABILITY

CALS EXPO
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Joseph Fuller (Chairman)
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

LINK-16
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)