Tri-Service Interactive Electronic Technical Manual (IETM) Technology Working Group

Joseph J. Fuller, Chairman
NSWC, Carderock Division
Department of the Navy

CALS Expo USA ‘97, 15 October 1997
Tri-Service IETM Technology Working Group

- Reports to OSD(CALS) Office
- Established 24 August 1989
- Major Accomplishments: 3 IETM Specs
  - MIL-M-87268 (now MIL-PRF-87268)
  - MIL-D-87269 (now MIL-PRF-87269)
  - MIL-Q-87270 (cancelled)
- Revised Charter - 10 June 1997
  - Incorporated JLC goals
Purpose

• To foster the exchange of ideas and the agreement on a common approach regarding the acquisition of IETMs, which use computer technology for the innovative display and presentation of technical manual information among all Department of Defense agencies.
Membership

• **Navy** - Naval Surface Warfare Center Carderock Division (2052), Bethesda, Maryland, Chair
• **Army** - USAMC Logistic Support Activity (AMXLS-AP), Huntsville, Alabama
• **Air Force** - USAF Product Data Systems Modernization Office, WPAFB, Dayton, Ohio
• **Marine Corps** - Marine Corps Systems Command (PSD-M4), Quantico, Virginia
• **Liaison Activities:**
  – JCALS Program Office
  – CALS Industry Steering Group (Hypermedia Information Systems)
Responsibilities

• Serve as an activity for IETM Technology Exchange among the Services
• Determine requirements for DoD, commercial, and international IETM-related specifications and standards
• Serve as DoD focal point for technology and standardization of IETMs, including identification of:
  – processes to develop & support IETMs
  – currently available technology & standards
  – voids/issues in IETM technology & standards
  – potential tasks to resolve these voids/issues on a DoD-wide basis
Responsibilities (Cont.)

- Develop and update the IETM Technology Roadmap, and carry out specific technical tasks
- Serve as technical point of contact to Industry associations, Government activities, and international standards activities
- Investigate and provide technology/standardization recommendations to DoD and Services on interface/integration of IETMs with training, advanced diagnostics, and logistic support systems
Responsibilities (Cont.)

- Provide new architecture for IETM interoperability which meets Joint Logistics Commanders (JCG/CE) goals:
  - develop uniform approach for electronically communicating and accessing technical data throughout the DoD
  - maximize use of commercial off-the shelf technology in the process
  - develop a common user/information interface for field delivery systems
FY97 Technical Initiatives

- DoD IETM Interoperability
- DoD IETM Acquisition Guidance
- DoD Maintenance Symposium and Exhibition Support
- IETM Technology Exchange Workshop
Points of Contact

• Navy- Joe Fuller, NSWCCD, 301-227-1358, email: fuller@oasys.dt.navy.mil
• Army- Judy Brisson, LOGSA, 205-955-9843, email: jbrisson@logsa.army.mil
• Air Force: Steve Holloway, PDSM, 937-427-5869, email: hollows@afcpo.wpafb.af.mil
• Marine Corps: Beth Barnetson, MCSC, 703-784-4683, email: barnetsonb@quantico.usmc.mil
What Are IETMs?

• Functional Equivalent of Paper Technical Manuals
• Viewed on an Electronic Display
• Formatted for Screen, not Page
• Interactive with the User
• Implements Data Base Philosophy of CALS
NSWC/CD R&D in 70’s & 80’s Leading to IETMs

• Concept Formulation
  – Examined TM problems across Navy SYSCOMS
  – Identified emerging technologies (ADP, HFE, Logistics)
  – Determined feasibility of replacing Paper TMs with IETMs
  – Worked closely with Army and Air Force R&D Activities

• System Development
  – Identified IETM requirements (23 sites, 400 personnel)
  – Developed prototype system- NTIPS

• Field Tests with Measurable Results
  – F-14A test at NAS Miramer
  – AN/SPA-25D test at SURFLANT Norfolk
  – F/A-18 test at MCAS Beaufort
IETM Payoffs

- Faster and more accurate maintenance
- Better performance by less experienced technicians
- Reduced false removal of good parts
- Reduced training time
- Eliminate Fleet time to maintain paper TM changes
- Technicians want them