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Appendix Army

1.0 -- Introduction

This appendix includes documents and hyperlinks to additional information provided specifically for the Army.

2.0 -- Army CALS Guidance Documents

Army CALS guidance documents can be found on the Logistics Integration Agency (LIA) home page at:

<http://134.11.28.15/webs/logweb/cals/hmpg.htm>

Documents available from this site include the Army CALS Pocketguide, the IETM Strategic Plan, and the Army CALS Implementation Plan. The documents listed below are provided in this appendix.

2.1 -- DoA Memo of 24 October 1995

This section presents the text of a memo issued by the Department of the Army Office of the Assistant Secretary, Research Development and Acquisition office encouraging DoA program managers to use digital data and on-line services for their programs.

**Department of the Army
Office of the Assistant Secretary
Research Development and Acquisition
U.S. Army Pentagon
Washington, DC**

Date: 24 Oct 1995

SAIS-C4S

Memorandum for See Distribution

Subject: Army Acquisition Executive Policy Memorandum -- Digitized Acquisition Data Policy

Purpose. This memorandum amplifies Army guidelines for improving current business practices through the digitization of data as required by DoD instruction 5000.2.

Applicability. Based on an increasing need to share data electronically and reduce life cycle support costs, this policy will apply not only to weapon systems but all Command. Control, Communications, Computers, and Intelligence systems (C4I). In the past, DoD Continuous Acquisition and Life-Cycle Support (CALS) directives have emphasized on-line access to and delivery of technical data in digital form for weapon systems. To the extent that other functional offices interact with this process, they too will apply CALS to related processes within their respective areas of interest.

References. The following source documents provide additional guidelines for CALS implementation:

- a. DoD Instruction 5000.2, Part 6, Section N, CALS, February 23, 1991.
- b. MIL-STD-974, Contractor Integrated Technical Information Service (CITIS), August 20, 1993.
- c. Military Handbook (MIL-HDBK-59B), CALS Implementation Guide, June 10, 1994.
- d. Department of Army Pamphlet 70-3, Part 6, Section N, CALS, February 28, 1995.

Background. The Army needs to improve its processes for the acquisition and life cycle support of weapon and C4I systems. Process improvements, cycle time reductions, productivity Enhancement, and force readiness improvements are all benefited by applying techniques which are strongly dependent on use of digital information processing. The Joint Computer-Aided Acquisition and Logistic support (JCALS) and Joint Engineering Data Management Information Control System (JEDMICS) programs were initiated to provide the mechanism for creating both an integrated information system and a shared data environment for acquisition and logistics. While JEDMICS will provide the main data repository for technical data such as engineering drawings; JCALS will provide the common operating environment needed to manage, acquire, store, publish, distribute, and update digitized data. The technical manual application is only the first functional capability of JCALS that has been approved for joint implementation. There are, however, other applications concurrently under development within the Services that will employ available JCALS products and capabilities such as:

- a. Integrated Data Environment (IDE) at Warner Robins to demonstrate and document capabilities of several logistics migration systems. A similar effort is underway at U.S. Army Missile Command to establish an IDE within Army for the demonstration testing, data integration, and training of emerging systems.
- b. Computer Program Documentation System for software engineering and maintenance of the Aegis ship at the Naval Surface Warfare Center.
- c. Product management capability for Combat Mobility Systems at Tank-automotive and Armaments Command to facilitate configuration control of technical data associated with the Heavy Assault Bridge, M1 Breacher, and Improved Recovery Vehicle.

These applications, as well as others (commercial or government developed), could be modified for migration to any Army program once the JCALS infrastructure is in place. In addition, the Army's Logistics Integration Agency (LIA) is facilitating Joint Functional Requirements Determination Teams to develop Engineering Support, Logistics Support Analysis/Record, and Contract Requirements Package requirements for subsequent DoD approval and joint Service implementation. More recently, the Deputy Under Secretary of Defense (Logistics) directed the Joint Logistics Systems Center to incorporate JCALS products into the design of the materiel management and depot maintenance standard systems.

Policy. It is imperative the Army begins to realize the efficiencies and benefits inherent in the CALS initiatives that began almost a decade ago. Therefore, to facilitate the rapid transition of Army acquisition and life cycle support elements to a more productive digital environment, the following actions will be accomplished:

- a. Whenever program managers expend resources on information systems, new purchases must meet open system standards, as defined in the March 31, 1995 Department of the Army, C4I Technical Architecture, to be capable of integrating with the JCALS/JEDMICS environment.
- b. To the maximum extent possible, program managers are encouraged to use JCALS/JEDMICS products for acquisition and logistics support activities based on released capabilities.
- c. All Army program managers will:

- (1) Plan for CALS implementation as part of their initial program acquisition strategy. System acquisition and support managers will acquire and use all new programmatic and technical information in digital form using applicable CALS standards, as appropriate. Internationally accepted standards for such information will be employed where they exist; otherwise, National, DoD or Army standards for information will be used. No proprietary information standards will be used where open system standards exist. The requirement is that acquisition data must be a long term strategic resource, independent of the business decisions of any single vendor or supplier.
 - (2) For programs currently in development, prepare and implement a plan for the conversion of acquisition data which is currently available only in paper or proprietary formats. Life cycle support needs and economics will dictate the specific information to be converted, the schedules, and the standards to be employed.
 - (3) For programs which have completed development and are in the sustainment phase of the life cycle, convert data to digital form if a major modification program is undertaken, reprourement is initiated, or operational benefits justify the expense of conversion.
- d. Program managers, in coordination with Major Subordinate commands, will develop the necessary migration plans and funding programs to emplace the CALS compliant infrastructure. At a minimum, migration plans should include the functional processes that will be targeted for process improvement, plans for data conversion, functional economic analysis based on total life cycle considerations, timelines for implementation, and funding requirements by fiscal year. Other areas to be considered are: system interfaces; upgrades to existing facility, hardware, software and communications resources; training and personnel requirements, and data formats, transmission media, and frequency. Migration plans will be staffed with the appropriate milestone decision chain of command for approval. Copies of migration plans will be provided to LIA to maintain coordination on all Army related initiatives.
 - e. Program managers will plan an part of their program management strategy the funding required for interfacing hardware, program specific application software, training, administrative support, and data conversion.

Conformance with this policy will henceforth become an agenda item during milestone reviews. No additional documentation will be required for the milestone reviews; however, program managers will address CALS implementation as part of their acquisition strategy.

A copy of the Army CALS Implementation Plan, developed by LIA, is enclosed to provide additional information on the Army CALS vision, management roles and responsibilities, standards, available products, and on-going CALS initiatives.

Gilbert F. Decker
Army Acquisition Executive

Enclosure

2.2 -- Army CALS Implementation Plan

(Army CALS Implementation Plan not provided to Deskbook at this time. Deskbook Librarian)

3.0 -- Army Automated Information Systems

This section provides brief descriptions of some of the Army's primary Automated Information Systems (AISs).

Although both IADS and MEARS were developed by the Army, they have been implemented across the Services. LOGPARS was not developed by the Army, but it is being widely used by them.

3.1 -- Electronic Maintenance Systems (EMSs)

The US Army Tank-automotive and Armaments Command (TACOM) is currently developing Electronic Maintenance Systems (EMSs) in three distinct areas of application: IETMs, IETM authoring software and IETM systems integration.

IETM Development

TACOM's EMS is an IETM interacting directly with a weapon system (via databus connection) which automatically troubleshoots, tests, evaluates, fault isolates, verifies repair, and orders parts. Three of these IETMs have been fielded for over a year: the Palletized Loading System (PLS), the Heavy Equipment Transporter (HET) and the M915A2/M916A1 Truck. Other EMSs in various stages of development are: the M113A3 Armored Personnel Carrier (APC), the HMMWV Highly Mobile Multipurpose Wheeled Vehicle, the M939 5-Ton Series Truck, the HEMTT Heavy Expanded Mobile Tactical Truck and the Hercules M88 Improved Recovery Vehicle (IRV).

IETM Authoring Software

The EMS Version 2 authoring and viewing system is under development and is scheduled for completion May 97. This authoring system for the most part consists of Commercial Off-The-Shelf (COTS) software and allows an author who does not know SGML to create a fully CALS compliant IETM with intrusive diagnostic capability.

IETM Systems Integration

TACOM, as part of an Integrated Product Team with PM-Test, Measurement and Diagnostic Equipment (TMDE) and CASCOM, is integrating EMSs and the Failure Analysis and Maintenance Planning System (FAMPS) to form the digital motor pool. The EMS records and time-stamps all troubleshooting, diagnostic, repair, and parts requisition actions and stores it in the mission maintenance database within FAMPS. FAMPS will become the information conduit and automated data collector for all motorpool maintenance, supply, readiness and environmental information. Once FAMPS is fully integrated within the Army's distributed information system up through the wholesale level, a multitude of activities can begin: failure trend analysis, prognostics, just-in-time supply, and automated readiness reporting/analysis.

3.2 -- Interactive Authoring and Display System (IADS)

The IADS application provides a robust environment for interactive and integrated electronic documents. It is part of a MICOM initiative designed to reduce or eliminate the massive duplication of paper inherent in the current process throughout the Department of Defense (DOD). IADS contains several software modules designed to support the development, sustainment, and navigation of CALS compatible hypertext documents. Originally designed for Electronic Technical Manuals (ETMs) and Interactive ETM (IETMs), the software is currently in use world-wide.

IADS allows users to build or edit documents using Standard Generalized Mark-up Language (SGML) tags and embed or reference graphics using the CALS Raster CCITT Group 4 or Vector (Computer Graphics Metafile -- CGM) files. Several industry graphics standards are supported as well. IADS is designed as a Class 3 environment, but is capable of doing Class 5 diagnostic and expert system integration. It also allows class 1 and 2 environments for static documents. A database application for electronic Repair Parts and Special Tools List (RPSTL) or Illustrated Parts Breakdown (UPB) database is also included in the software suite.

3.3 -- Logistics Planning and Requirements Simplification (LOGPARS)

LOGPARS is a personal-computer based, tri-service expert system for assisting program managers in preparation of integrated acquisition planning documentation and milestone schedules. The acquisition planning process requires in-depth knowledge in many different functional specialties. Resource shortages and lack of training contribute to inadequate planning and inappropriate specification of requirements. LOGPARS is an expert system designed to enhance productivity and accuracy in acquisition planning and performance by leading the user through a series of question designed to establish the appropriate acquisition strategy and develop the associated tailored program planning and scheduling documentation.

LOGPARS is an excellent training tool. A tri-service version of LOGPARS is the heart of the Army Logistics Management College (ALMC) Advanced ILS Course and is being used as a teaching tool at the Defense Systems Management College (DSMC).

During project application, survey responses indicate quantitative productivity enhancements and quality improvements. LOGPARS guides the user through the process of preparing a comprehensive/integrated acquisition planning document.

3.4 -- Multi-User Engineering Change Proposal (ECP) Automated Review System (MEARS)

The MEARS application provides an automated ECP review process designed to eliminate the massive duplication of paper inherent in the current process throughout the Department of Defense (DoD). MEARS provides for electronic creation of ECPs, Requests for Waivers/Requests for Deviations (RFWs/RFDs), and Problem Change Reports (PCRs), as well as, on-line review, comment, and disposition (electronic Configuration Control Board [CCB]). MEARS was originally developed as a result of the Department of Defense CALS initiative, and was conceived from a set of CALS Cost Benefit Analysis Studies performed in FY90 by the MICOM CALS Office. These studies demonstrated potentially large savings in the area of ECP automation.

MEARS allows reviewers to review a complete document, including all engineering drawings, that are affected by the proposed change. It allows ECP reviewers to make comments on all aspects of the ECP

and allows for these comments to be viewed by all other ECP reviewers. The tool also allows for automated voting.

3.5 -- Personal Computer Logistics Support Analysis Record (PCLSAR)

The PCLSAR system is an IBM compatible personal computer based automation tool. The software is designed to support the requirements of MIL-STD-1388-2B, DOD Requirements for a Logistic Support Analysis Record, 28 March 91. PCLSAR is a single user, stand alone data base management system (DBMS), unique to the LSAR. Since the system is self contained, there is no need for an additional DBMS to be purchased in order to run the application within. The system has received official government validation as of 17 May 1994. Government agencies/organizations are the target customers for the completed system.

4.0 -- Army CALS Points of Contact Listing

Army Program Managers may obtain guidance and information regarding CALS policies, programs, and implementation by contacting their respective Army POC as listed below:

Logistics Integration Agency (LIA)

Mr. Alan Schmack
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Assistant Secretary of the Army for Research, Development & Acquisition (ASA(RD&A))

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Director of Information Systems for Command, Control, Communications & Computers (DISC4)

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Program Executive Officer, Standard Army Management Information System (PEO STAMIS)

Ms. Betty Revelle
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Army Materiel Command (AMC)

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Tank-Automotive & Armaments Command -- Armament, Chemical, Acquisition & Logistics Activity (TACOM-ACALA)

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Tank-Automotive & Armaments Command -- Armament Research, Development and Engineering Center (TACOM-ARDEC)

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Chemical & Biological Defense Command (CBDCOM)

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Communications Electronics Command (CECOM)

Mr. Rich Uldrich

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Test & Evaluation Command (TECOM)

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Missile Command (MICOM)

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Industrial Operations Command (IOC)

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Internet Addresses of Interest:

LIA CALS Home Page:

<http://134.11.28.15/webs/logweb/cals/hmpg.htm>

LIA CALS Army CALS Implementation Plan Home Page:

<http://134.11.28.15/webs/logweb/cals/acippg.htm>

OSD CALS Office:

<http://www.acq.osd.mil/cals>

CALS Documents:

<http://www.acq.osd.mil/cals/calsdocu.html>

CALS Specifications & Standards

<http://www.acq.osd.mil/cals/specsstds.html>

DoDD 5000.1 DoDI 5000.2 On-Line

<http://WWW.ACQ.MIL/API/ASM/DOD5000.HTML>

JCALs:

<http://150.149.1.11/whats-new.html>

JEDMICS:

<http://www.is.prc.com/jedmics.html>

FCIM:

<http://www.ecrc.uofs.edu/fcim.html>

MICOM

<http://www.redstone.army.mil>

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