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Appendix
Acronyms and Definitions

1.0 -- CALS Acronyms.

The following acronyms are used throughout this Desktop Guide:

2-D	2-Dimensional
3-D	3-Dimensional
	A
AAM	Application Activity Model
ACIP	Army CALS Implementation Plan
AD	Aircraft Division
ADMAPS	Automated Document Management and Publishing System
ADP	Automated Data Processing
AE	Age Exploration
AEC	Electrical Applications Committee
AF	Air Force
AIIM	Association for Information and Image Management
AIM	1. Advanced Industrial Management (Navy)
	2. Aerospace Industrial Modernization (Air Force)
	3. Authoring Instructional Materials
	4. Application Interpreted Model
AIS	Automated Information System
AMSDL	Acquisition Management Systems and Data Requirements Control List
ANSI	American National Standard Institute
AP	1. Acquisition Plan
	2. Application Protocol
ARM	Application Reference Model
ASC	American Standards Committee
ASCII	American Standards Code for Information Interchange
ASD	Assistant Secretary of Defense
ASME	American Society of Mechanical Engineers
ATC	Abstract Test Cases
ATIS	Advanced Technical Information Support
	B
BBS	Bulletin Board System
BCS	Baseline Comparison System
	C
C3I	Command, Control, Communications, and Intelligence
CAC	Contractor's Approach to CALS
CAD	Computer-Aided Design

CAD/CAM/CAE	Computer-Aided Design/Computer-Aided Manufacturing/Computer-Aided Engineering
CAE	Computer-Aided Engineering
CALS	1. Continuous Acquisition and Life-cycle Support 2. Computer-aided Acquisition and Logistics Support
CALS RIC	CALS Resource and Implementation Cooperative
CALSIP	CALS Implementation Plan
CAM	Computer-Aided Manufacturing
CASE	Computer-Aided Software Engineering
CBT	Computer-Based Training
CCITT	Consultative Committee on International Telegraphy and Telephony
CD	Compact Disk
CD-ROM	Compact Disk -- Read Only Memory
CDI	Compact Disk Interactive
CDM	Content Data Model
CDNSWC	Carderock Division of the Naval Surface Warfare Center
CDRL	Contract Data Requirements List
CE	Concurrent Engineering
CED	Concept Exploration and Definition
CGM	Computer Graphics Metafile
CGM AP	Computer Graphics Metafile Application Profile
CIM	Corporate Information Management
CITIS	Contractor Integrated Technical Information Service
CIVR	Configuration Item Verification Review
CLIN	Contract Line Item Number
CLIP	Configuration and Logistics Information Program
CM	Configuration Management
CMIS	Configuration Management Information System
CMP	Configuration Management Plan
CONOP	Concept of Operation
COTS	Commercial Off-The-Shelf
CPU	Central Processing Unit
CSAR	Configuration Status Accounting Reports
CSF	Critical Success Factors
CSL	CALS SGML Library
CSR	CALS SGML Registrar
CTN	CALS Test Network
	D
DAP	Document Application Profile
DASD(IM)	Deputy Assistant Secretary of Defense for Information Management
DAT	Digital Audio Tape
DB	Database
DBMS	Database Management System
DBOF	Defense Business Operating Fund

DDN	Defense Data Network
DFARS	Defense Federal Acquisition Regulation Supplement
DID	Data Item Description
DII	Defense Information Infrastructure
DIS	Draft International Standard
DISA	Defense Information Systems Agency
DL	Data List
DLA	Defense Logistic Agency
DoD	Department of Defense
DoDD	Department of Defense Directive
DoDI	Department of Defense Instruction
DOS	Disk Operating System
DPI	Dots Per Inch
DPS	Defense Printing Service
DSDW	Defense Shared Data Warehouse
DSN	Defense Support Network
DSSSL	Document Style Semantics and Specification Language
DTD	Document Type Definition
DTG	Desktop Guide
DTMB	David Taylor Model Basin
DTP	Desktop Publishing
DVI	Digital Video Interactive
	E
EC	1. Electronic Commerce
	2. Editing Committee
ECO	Engineering Change Order
ECP	Engineering Change Proposal
ECRC	Electronic Commerce Resource Center
EDCARS	1. Engineering Data Computer-Assisted Retrieval System
	2. Engineering Drawing Computer-Aided Retrieval System (Army)
EDI	Electronic Data Interchange
EDIF	Electronic Data Interchange Format
EDIFACT	EDI for Administration, Commerce, and Transportation
EIA	Electronic Industries Association
EIO	Evaluation & Integration Office
EMD	Engineering and Manufacturing Development
ETM	Electronic Technical Manual
	F
FAR	Federal Acquisition Regulation
FAX	Facsimile
FCIM	Flexible Computer Integrated Manufacturing
FCS	Finite Coordinate Space
FDT	Formal Description Technique
FIPS	Federal Information Processing Standard

FMECA	Failure Modes and Effects Criticality Analysis
FOD	Open Document Format
FOSI	Formatting Output Specification Instance
FRC	Final Reproducible Copy
	G
G-byte	Gigabyte
GCA	Graphic Communication Association
GCO	Government Concept of Operations
GFI	Government-Furnished Information
GIDEP	Government-Industry Data Exchange Program
GOSIP	Government Open System Interconnection Profile
	H
HDBK	Handbook
HW	Hardware
HW/SW	Hardware/Software
HyTime	Hypermedia Time-based Document Structuring Language
	I
IAW	In Accordance With
IC	Integrated Circuit
ICAM	Integrated Computer-Aided Manufacturing
IDE	Integrated Data Environment
IDEFIX	Integrated Computer-aided Manufacturing (ICAM) DEFinition Method IX
IDEF0	Integrated Computer-aided Manufacturing (ICAM) DEFinition Method 0
IEEE	Institute of Electrical and Electronic Engineers
IETM	Interactive Electronic Technical Manual
IETM/PMA	Interactive Electronic Technical Manuals and Portable Maintenance Aids
IGES	Initial Graphics Exchange Specification
IL	Index List
ILS	Integrated Logistics Support
ILSP	Integrated Logistics Support Plan
IM	Information Management
IMIS	Integrated Maintenance Information System
IPC	Institute for Interconnecting and Packaging Electronic Circuits
IPO	IGES/PDES Organization
IR&D	Independent Research and Development
IRDS	Information Resources Dictionary System
ISG	Industry Steering Group
ISO	International Standards Organization
ISP	International Standardization Profiles
ISR	Implementation Support Requirements
IT	Information Technology
IWSDB	Integrated Weapon Systems Database

	J
JCALS	Joint Computer-aided Acquisition and Logistic Support
JEDMICS	Joint Engineering Data Management Information and Control System
JLSC	Joint Logistics Systems Center
	L
LAN	Local Area Network
LCC	Life Cost Cycle
LEM	Logistic Element Manager
LEP	Layered Electrical Products
LLNL	Lawrence Livermore National Laboratory
LLTIL	Long Lead Time Items List
LOGPARS	LOGistics Planning And Requirements Simplification
LOGSA	LOGistics Support Activity
LORA	Level of Repair Analysis
LRU	Line Replacement Unit
	M
MACS	Mutually Agreeable Commercial Software
MEARS	Multi-User ECP Automated Review System
MEDALS	DoD Military Engineering Drawing Asset Locator System
MIL	Military
MIS	Management Information System
MPT	Manpower, Personnel, Training
	N
NADC	Naval Air Development Center
NATO	North Atlantic Treaty Organization
NAVAIR	Naval Air Systems Command Headquarters
NAVSUP	Naval Support
NAWC	Naval Air Warfare Center
NFS	Network File System
NIAG	NATO Industrial Advisory Group
NIAM	Nijssen's Information Analysis Methodology
NIC	Network Interface Card
NII	National Information Infrastructure
NIST	National Institute of Standards and Technology
NPPS	Navy Publishing and Printing Service
NSIA	National Security Industrial Association
NSWC	Naval Surface Warfare Center
NTP	Navy Training Plan
NWC	Naval Weapons Center
NWS	Naval Weapons Station
	O
O&S	Operation & Support
OASD	Office of the Assistant Secretary of Defense
OCR	Optical Character Recognition

ODA	Open Document Architecture
ODIF	Office Document Interchange Format
ODL	Open Document Language
OS	Output Specification
OSD	Office of the Secretary of Defense
OUSD	Office of the Under Secretary of Defense
	P
PC	Personal Computer
PCA	Physical Configuration Audit
PCB	Printed Circuit Board
P&D	Production & Deployment
PDES	Product Data Exchange using STEP
PDF	Portable Document File
pDISP	Proposed Draft International Standardized Profile
PDF	Portable Document Format
PDL	Page Description Language
PHS&T	Packaging, Handling, Stowage, & Transportation
PL	Parts List
PM	Program Manager
PMA	Portable Maintenance Aid
PMTC	Pacific Missile Test Center
POC	Points-of-Contact
POSIT	Profile for Open Systems Internetworking Technologies
PSA	Principal Staff Assistants
PTD	Provisioning Technical Documentation
PUB	Publication
	Q
QA	Quality Assurance
QAPP	Quality Assurance Program Plan
QIC	Quarter Inch Cartridge
	R
R&M	Reliability and Maintainability
RAMP	Rapid Acquisition of Manufactured Parts
RCM	Reliability Center Maintenance
RDT&E	Research, Development, Test, and Evaluation
RFD	Request for Deviation
RFP	Request For Proposal
RFQ	Request for Quotation
RFW	Request for Waiver
RISC	Reduced Instruction Set Computing
ROM	Read Only Memory
	S
SAP	Site Activity Plan
SCSI	Small Computer System Interface

SDAI	STEP Data Access Interface
SDIF	SGML Document Interchange Format
SE	Support Equipment
SECNAVINST	Secretary of Navy Instruction
SEMP	System Engineering Management Plan
SERD	Support Equipment Recommendation Data
SGML	Standard Generalized Markup Language
SIE	Special Inspection Equipment
SIG	Special Interest Group
SOO	Statement of Objectives
SOW	Statement of Work
SPAWAR	Space & Navy Warfare Systems Command
SPDL	Standard Page Description Language
SPEC	Specification
SQL	Standard Query Language
SSAP	Site Support Activity Plan
STD	Standard
STEP	Standard for the Exchange of Product Model Data
SW	Software
	T
T&TS	Training and Training Support
TBD	To Be Determined
TCAPS	Technical CAPabilitieS
TCP/IP	Transmission Control Protocol/Internet Protocol
TDP	Technical Data Package
TDMP	Technical Data Management Program
TEMP	Test and Evaluation Master Plan
TI	Technical Information
TM	Technical Manual
TMCR	Technical Manual Contract Requirement
TMM	Technical Manual Manager
TMSS	Technical Manual Specifications Standards
TO	Technical Order
TRIF	Tiled Raster Interchange Format
	U
UN	United Nations
USAMC	United States of America Marine Corp.
	V
VHDL	VHSIC Hardware Description Language
VHSIC	Very High Speed Integrated Circuit
	W
WAN	Wide Area Network
WBS	Work Breakdown Structure
WORM	Write Once/Read Many Times

WP	Word Processing
WRA	Weapon Replaceable Assembly

2.0 -- Definitions

The following terminology has become common in the CALS environment in reference to data deliverables:

Associated List is a tabulation of engineering information pertaining to an item depicted on an engineering drawing or on a set of engineering drawings. Associated list is a generic term for any of the following: Parts List (PL), Data List (DL), Index List (IL).

CGM or Computer Graphics Metafile is a digital data file containing graphic information in a file format compatible with most other graphic systems.

CITIS (Contractor Integrated Technical Information Service) is a contractor developed service which provides electronic access to and/or delivery of contractually required Contract Data Requirements List (CDRL) data to users. CITIS, and consequently the contract provisions for CITIS, does not include the databases to which access is granted, or the database process, or the format of data to be accessed through CITIS.

Data Call is a formal process which includes all organizations which require data in order to perform a function at any time over the entire life cycle of the item being acquired. The data call will specifically include the applicable inventory control point and engineering and maintenance activities. In cases where an item is going to be managed by DLA or another service, DLA or the other service personnel should be specifically included in the formal data call. It is not appropriate that someone at another organization identify what the management activity needs in order to carry out its responsibilities relative to the item being procured. It is each organization's responsibility to specifically and clearly identify, and justify, its needs. In other words, the data call is to be addressed to those organizations which actually require and use the specific technical/engineering information conveyed by technical data, such as engineering and maintenance organizations and inventory control points. In turn, these organizations are responsible for providing to the program office their specific data (DIDs/CDRL) needs in order to carry out the functions for which they are responsible for the life cycle of the item being acquired. Data which is procured must satisfy a specific need. It is not good practice, for example, to use CDRLs that were used in the past for new procurements without specific consideration as to their applicability to the present acquisition. It is DoD policy to buy only that data required for complete life cycle logistics support as committed to in the program Acquisition Plan (AP) and Acquisition Strategy Report (ASR) -- FAR 7.105.

Data Presentation Format is the human interpretation of data such as text layout, drawing scale, level of detail, or part orientation.

Digital Data Format is the structure of the data on the physical transfer media such as IGES, CGM, SGML, and CCITT Group 4 Raster.

Digital Data is data represented in computer-generated, binary form.

Document applies to the information content of a variety of different printed or digital entities that contain technical information. These entities may be technical reports, analyses, drawings, specifications, lists, engineering change notices, or a large variety of other information.

Drawing Format is the arrangement and organization of information within a drawing. This includes such features as the size and arrangement of blocks, notes, lists, revision information, and use of optional or supplemental blocks.

EDI (Electronic Data Interchange) is data that is transmitted or communicated electronically according to established rules and formats. The formatted data may be transmitted from originator to recipient via telecommunications or physically transported on electronic storage media.

End-product (End-item) is an item, either an individual part or assembly, in its final or completed state.

Engineering Data are engineering documents such as drawings, associated lists, accompanying documents; specifications, and standards, or other information prepared by a design activity and relating to the design, manufacture, procurement, test, or inspection of manufactured items.

Engineering Drawings are documents that disclose directly or by reference, by means of graphic and textual information, the physical and functional end-product requirements of an item. Geometry, material requirements, and process data, along with notational explanations pertaining to specific functions and features of the depiction, are its typical contents.

Final Deliverables are any item or items specified for delivery under the contract to mark the completion or fulfillment of a required task or tasks.

IETM or Interactive Electronic Technical Manual is a computer-based collection of information needed for the diagnosis and maintenance of a weapons system, optically arranged and formatted for interactive presentation to the end user on an electronic display system.

IGES or Initial Graphics Exchange Specification is a neutral file format for the representation and transfer of product definition data among CAD/CAM systems and application programs.

ILS or Integrated Logistics Support is a disciplined, unified, and iterative approach to the management and technical activities necessary to integrate support considerations into system and equipment design; develop support requirements that are related consistently to readiness objectives, to design, and to each other; acquire the required support; and provide the required support during the operational phase at minimum cost.

ILS Data is the technical information to support the ILS management process.

Interim Deliverables are any item or items delivered under the contract that are not specifically required by the contract, but may include draft forms of final deliverables.

Legacy Data is technical data (ILS Data, engineering drawings, etc.) that was developed and archived before the implementation of CALS initiatives.

PDES/STEP or Product Data Exchange using STEP/Standard for the Exchange of Product Model Data are standards and specifications under development for communicating a complete product model with sufficient information content so as to be interpretable directly by advanced CAD/CAM applications such as generative process planning, CAD-directed inspection, and automatic generation and verification of automated manufacturing data. PDES is being developed as a national standard, and STEP is being developed as the international counterpart. STEP is the international standards effort (officially entitled ISO 10303) to develop a neutral mechanism capable of completely representing product data throughout the life cycle of the product.

Product Definition Data denotes the totality of data elements required to completely define a product. Product definition data includes geometry, topology, relationship, tolerances, attributes, and features necessary to completely define a component part or an assembly of parts for the purpose of design, analysis, manufacture, test, and inspection.

Product Drawings are engineering drawings that provide the necessary design, engineering, manufacturing, and quality support information necessary to permit a competent manufacturer to produce an interchangeable item that duplicates the physical and performance characteristics of the original design without additional design engineering or recourse to the original manufacturer.

Raster data is a binary representation of an image. There are two types of raster data, tiled and untiled. Untiled raster data has no document architecture and is represented by a single compressed data entity. Tiled raster data resembles a two-dimensional grid with each tile or set of pixels representing a portion of the image.

Technical Data Package is a technical description of an item consisting of all applicable technical data such as drawings and associated lists, specifications, standards, performance requirements, quality assurance requirements, and packaging details necessary to define the design configuration and procedures required to ensure item performance.

Technical Manuals are any technical publication or other form of documentation used to install, operate, maintain, test, repair, or overhaul weapon systems and support equipment or to provide logistic support of ships, aircraft, weapon systems, or defense material. Technical manual information may be presented or delivered in any form including, but not limited to, hard copy, audio and visual displays, magnetic tape, discs, and other electronic devices.

TMCR or Technical Manual Contract Requirement is a definitive contractual document that provides the complete content and format requirements for the preparation and delivery of one or more technical manuals and technical manual management data items. The TMCR consolidates the requirements from various Government specifications and standards and tailors those requirements to produce a technical manual that satisfies specified user needs.

Transfer Media Format is the physical form of the data deliverable such as paper, microfilm, magnetic tape, or optical disk.

Validation is the comprehensive testing of information, data, and procedures contained in a technical manual. This testing is accomplished by review/comparison of nonprocedural material against up-to-date

source data and by actual performance of procedures on the system or equipment for which the manual was written by the TM preparing activity.

Vector data is the representation of an image as a sequence of line segments. Vector data provides geometrical and physical representation of objects in both two and three dimensions.

Verification is Government testing in an operational environment of the accuracy, adequacy, and suitability for use of a technical manual prior to final acceptance.

Next Section