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SUPERSEDING

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DEPARTMENT OF DEFENSE INTERFACE STANDARD

DIGITAL PUBLICATIONS DEVELOPMENT

AMSC N/A **IPSC**

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

FOREWORD

1. This standard is approved for use by the Department of the Army and is available for use by all Departments and Agencies of the Department of Defense.

2. MIL-STD-2361 established the Standard Generalized Markup Language (SGML) and the Extensible Markup Language (XML) requirements for use in Army digital publications. Within the standard, Army publications SGML/XML requirements are separated by publication types. There are specified sections for administrative publications, training and doctrine publications, technical and equipment publications and Global Combat Support System-Army (GCSS-A). This new publication of the standard contains the XML requirements for Technical Manuals (TM) developed in accordance with the functional requirements contained in MIL-STD-40051-1 and -2, GCSS-A collection and reporting of maintenance data developed in accordance with MIL-STD-3008, and administrative publications developed in accordance with AR 25-30. The XML requirements are applicable for the development, acquisition, and delivery of Electronic and Interactive Electronic Publications (EP/IEP) such as Electronic and Interactive Electronic Technical Manuals (ETM/IETM). The previous SGML for training and doctrine publications functional requirements, developed in accordance with TRADOC Reg 350-70 and TRADOC Reg 25-36, remain unchanged. Specific Interactive Multimedia Instruction (IMI) functionality is currently contained in MIL-PRF-29612, The Development and Acquisition of Training Data Products and TRADOC Reg 350-70, Systems Approach to Training Management, Processes, and Products.

3. MIL-STD-2361 is a product-oriented interface standard that addresses SGML and XML application to functional requirements set forth in Government functional requirements standards and specifications. This standard establishes the requirements for developing SGML and XML publications in accordance with the various Army functional requirements, standards, and specifications. MIL-STD-2361 has evolved from a hierarchy of acquisition and development documents, ranging from policy documents, such as Department of Defense Instruction DoDI 5000.1, Defense Acquisition, through MIL-PRF-28001, Markup Requirements and Generic Style Specification for Electronic Printed Output and Exchange of Text. Throughout the development of MIL-STD-2361, the primary focus and consideration has been to ensure compliance with existing DoD, Army, and international policy and requirements.

4. MIL-HDBK-2361, Implementation Guidance for Digital Publications Development, provides implementation guidance for MIL-STD-2361. MIL-HDBK-1222, Guide to the General Style and Format of U.S. Army Work Package Technical Manuals provides implementation guidance for MIL-STD-40051-1 and -2. DA PAM 25-40, Army Publishing: Action Officers Guide, provides implementation guidance for AR 25-30, The Army Publishing Program.

5. Address any beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document to: Director, Army Publishing Directorate (APD), ATTN: JDSO-PAT-S, Hoffman Building 1, 2461 Eisenhower Avenue, Alexandria, VA 22331–0302, by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

CONTENTS

1 SCOPE.

1.1 Scope. This standard establishes the Extensible Markup Language (XML) requirements for digital development, acquisition, and delivery of Army administrative and technical and equipment publications. The requirements for technical and equipment publications include the development, acquisition, and delivery requirements for Electronic and Interactive Electronic Technical Manuals (ETM/IETM). Further, this standard establishes the Standard Generalized Markup Language (SGML) requirements for digital development, acquisition, and delivery of Army training and doctrine publications. Designated appendices of this standard contain references to, and access instructions for, the Document Type Definitions (DTD) and Tag Description Lists for the development of Army publications in conjunction with the respective functional requirements documents. Data prepared in conformance to these requirements will facilitate the automated storage, retrieval, interchange, and processing of publications from heterogeneous data sources. The requirements set forth by this military standard include:

a. Procedures and symbology for markup of unformatted text in accordance with this specific application of SGML and XML.
b. SGML and XML compatible codes that will support encoding of administrative, training and doctrine, and technical and equipment publications to specific format and content requirements applicable to each type of publication.
c. Output processing requirements that will render a conforming SGML/XML source file to the style and format requirements of the appropriate style sheet (i.e. FOSI, DSSSL, XSL-T, XSL-FO). One use for XSL-T is to transform well-formed XML documents to Hypertext Markup Language (HTML) for viewing on web browsers.

1.2 Applicability. The standard is available for use by all Governmental Departments and Agencies, and by industry. The requirements contained in this standard may be applied to all Army programs that produce publication source data, and is directly applicable to all Army departmental media , including administrative, training and doctrine, technical and equipment publications, including Electronic and Interactive Electronic Publications (EP/IEP) such as ETMs, IETMs, and Interactive Multimedia Instruction (IMI).

1.3 Covered. This standard establishes the requirements for the SGML or XML digital encoding of all Army publications. The table in paragraph 1.3.1 displays the functional requirements documents and the Formal Public Identifiers (FPI) of their associated MIL-STD-2361 document type definitions. Data files satisfying the requirements of this standard will be one of the types in the following paragraphs, as specified (see 2.2.1 for full titles).

1.3.1 Type 1 data files. Type 1 data files are for Army-approved document type definitions (DTD) that have successfully completed the Army SGML/XML Registry and Library (ASRL) registration and approval process, and are for publications conforming to approved and authenticated military standards and other publications requirements documents.

Table I. Army Publication Document Type Definitions (DTD)

Requirements Document	DTD Nomenclature	Formal Public Identifier (FPI)[1]
MIL-STD-40051-1 and -2	Production	"-//USA-DOD//DTD MIL-STD-2361 TM Assembly REV 3.10 20041012//EN"
MIL-STD-3008	GCSS-Army DTD	"-//USA-DOD//DTD GCSS-A 20020315//EN"
TRADOC Reg 350-70	Mission Training Plan (MTP)	"-//DOD-USA//DTD MTP REV 4.0 20000515//EN"
TRADOC Reg 350-70	Drill Book	"-//DOD-USA//DTD Drill Book REV 4.0 20000515//EN"
TRADOC Reg 350-70	Soldier's Training Publication (STP)	"-//DOD-USA//DTD Soldier's Training Publication REV 4.0 20000515//EN"

Requirements Document	DTD Nomenclature	Formal Public Identifier (FPI)[1]
TRADOC Reg 350-70	System Training Plan (STRAP)	"-//DOD-USA//DTD System Training Plan REV 4.0 20000515//EN"
TRADOC Reg 25–36	Field Manual (FM)	"-//DOD-USA//DTD FMML REV 4.0 20000515//EN"
AR 25-30	Army Publishing Program	"-//DOD-USAPA//DTD Administrative Publication REV 6.5 20030318//EN"

1.3.2 Type 2 data files. Type 2 data files are for Army publications conforming to functional standards other than those listed in Table I, and for which DTDs have not been approved. It is anticipated that in the future, additional DTDs and style sheets will be approved and added to this standard.

1.4 Application guidance. This standard, MIL-STD-2361, applies to all acquisitions for, and development or conversion of, Army Publications, including development of new publications and application of SGML/XML legacy (existing) publications requiring SGML/XML applications. Assistance in application and implementation of MIL-STD-2361 SGML/XML can be obtained from the Army SGML/XML Registry and Library (ASRL), **(URL) http://www.asrl.com**.

1.4.1 Application of SGML/XML to Legacy Publication. Refer inquiries regarding legacy data applications to the ASRL. (See Appendices A, B, C, D, or E).

1.4.2 Army SGML/XML Registry and Library. The ASRL will be the repository for all Army SGML/XML objects and constructs approved for Army use. SGML/XML objects are elements, entities, attributes of elements, public identifiers, notations, and standard tagging schemas. SGML/XML objects and constructs are DTDs, style sheets, XSLs, and schemas. Army-wide standardization of SGML/XML objects and constructs facilitates reuse of data, reduces DTD development time, and allows more efficient source file tagging by using familiar markup rules. Administrative, training and doctrine, and technical and equipment publication SGML/XML objects and constructs will be maintained in, and obtained from, the ASRL. Access addresses for the ASRL are:

a. World Wide Web (WWW): ASRL homepage Uniform Resource Locator **(URL) http://www.asrl.com**.
b. U.S. Mail: Requested files will be mailed on CD-ROM in DOS or UNIX tar format. Requests may be submitted as follows:
   (1) Written request:
   Director, Army Publishing Directorate (APD)
   ATTN: JDSO-PAT-S
   2461 Eisenhower Avenue
   Alexandria, VA 22331-0302
   (2) Telephone request:
   Commercial: (703) 325-6231
   DSN: 221-6231

1.4.3 SGML/XML. SGML/XML applications applied pursuant to this standard, describes the logical structure and content of documents; assures automated quality control over adherence to that structure and content; provides for delivery and storage of publication text in an easily maintained and updatable form; and provides for vendor, software, and platform independence. More detail regarding SGML/XML applications and requirements is provided in paragraph 4.4. Additional background information can be found in, MIL–PRF–28001, Markup Requirements and Generic Style Specification for Exchange of Text and Its Presentation, MIL–PRF–28000, Digital Representation for Communication of Product Data: IGES Application Subsets and IGES Application Protocols and MIL–HDBK–28001, Department Of Defense Application of Using Standard Generalized Markup Language (SGML).

[1] The FPI will define a specific version of a completed DTD and is not an URL.

1.5 Classification of publications. Publication classifications within MIL-STD-2361 are based on the classes into which publications (document classes) have been grouped, and for which DTDs have been approved. A summary description of each of the DTDs approved for use in accordance with this standard are listed in this section. The DTD classifications provided by this standard are available through the ASRL for use in the development of Army departmental media. Requirements for the DTDs and tag description lists associated with this standard are located in Section 4, General Requirements and Section 5, Detailed Requirements. Instructions and guidance regarding access, download, and use of the DTDs are located in Appendixes A, B, C, D or E.

1.5.1 Administrative publications. The administrative publication DTD establishes the XML structure and format tagging conventions for use with AR 25-30. The DTD includes XML constructs for the development of front, body, and rear matter information for Army Regulations (AR) Multi-Service Army Regulations (MAR), Department of the Army (DA) Pamphlets (PAM), Multi-Service Pamphlets (MAP), and DA Circulars (CIR). The formal public identifier for the Administrative Publication XML DTD is "-//DOD-USAPA//DTD Administrative Publication REV 6.5 20030318//EN".

1.5.2 Training and Doctrine Publications.

1.5.2.1 Army Training and Evaluation Program (ARTEP).

a. Mission Training Plan (MTP). The MTP DTD establishes the SGML structure and content tagging conventions for use with TRADOC Reg 350-70. The DTD includes SGML constructs for the development of front, body, and rear matter information for MTPs. The DTD also allows development and output of selected parts of a MTP. The formal public identifier for the MTP DTD is "-//DOD-USA//DTD MTP REV 4.0 20000515//EN".
b. Drill Book. The Drill Book DTD establishes the SGML structure and content tagging conventions for use with TRADOC Reg 350-70. The DTD includes SGML constructs for the development of front, body, and rear matter information for Drill Books. The DTD also allows development and output of selected parts of a Drill Book. The formal public identifier for the Drill Book DTD is "-//DOD-USA//DTD Drill Book REV 4.0 20000515//EN".

1.5.2.2 Soldier Training Publications (STP). The STP DTD establishes the SGML structure and content tagging conventions for use with TRADOC Reg 350-70. The DTD includes SGML constructs for the development of front, body, and rear matter information for STPs. The DTD also allows development and output of selected parts of a STP. The formal public identifier for the STP DTD is "-//DOD-USA//DTD Soldier's Training Publication REV 4.0 20000515//EN".

1.5.2.3 System Training Plan (STRAP).

1.5.2.4 Field Manual (FM). The FM DTD establishes the SGML structure and content tagging conventions for use with TRADOC Reg 25-36. The DTD includes SGML constructs for the development of front, body, and rear matter information for FMs. The DTD also allows development and output of selected parts of an FM. The formal public identifier for the FM DTD is "-//DOD-USA//DTD FMML REV 4.0 20000515//EN".

1.5.3 Technical and Equipment Publications. Technical Manual Assembly (PRODUCTION). The XML PRODUCT DTD describes the structure and content tagging conventions for MIL-STD-40051-1 and -2. To assemble a complete manual with all of its required parts (i.e., introductory information, maintenance, troubleshooting, etc.), refer to MIL-STD-40051-1 and -2 and public entity "-//USA-DOD//DTD MIL-STD-2361 TM Assembly REV 3.10 20041012//EN" for appropriate DTD.

1.5.4 Interactive Electronic Technical Manual (IETM) Technical Data Requirements to Support the Global Combat Support System-Army (GCSS-A). The SGML (GCSS-A) DTD supports input requirements for the Global Combat Support System-Army (GCSS-A). The GCSS-A Element Declarations defines the structure and content of the functional data tables for collecting and reporting operations, historical, maintenance, and ammunition data for the management and support of aviation and non-aviation weapons systems and their related systems, equipment, components/modules, including flight and mission safety parts, as defined in MIL-STD-3008. The formal public identifier for the GCSS-A DTD is "-//USA-DOD//DTD GCSS-A 20020315//EN".

2 APPLICABLE DOCUMENTS.

2.1 General. The documents listed in this section are specified in sections 4 and 5 of this standard. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements in the standards and specifications cited in sections 4 and 5 of this standard, whether or not they are listed in this section.

2.2 Government Documents.

2.2.1 Specifications, Standards And Handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement there to, cited in the solicitation.

SPECIFICATIONS

DEPARTMENT OF DEFENSE

MIL-PRF-28000	-	Digital Representation for Communication of Product Data: IGES Application Subsets and IGES Application Protocols.
MIL-PRF-28001	-	Markup Requirements and Generic Style Specification for Electronic Printed Output and Exchange of Text.
MIL-PRF-28002	-	Raster Graphics Representation in Binary Format, Requirements for.
MIL-PRF-28003	-	Digital Representation for Communication of Illustration Data: CGM Application Profile.
MIL-PRF-29612	-	The Development and Acquisition of Training Data Products.

STANDARDS

DEPARTMENT OF DEFENSE

MIL-STD-1840	-	Automated Interchange of Technical Information.
MIL-STD-3008	-	Interactive Electronic Technical Manual (IETM) Technical Data Requirements To Support The Global Combat Support System-Army (GCSS-A).
MIL-STD-40051-1	-	PREPARATION OF DIGITAL TECHNICAL INFORMATION FOR INTERACTIVE ELECTRONIC TECHNICAL MANUAL (IETM). PREPARATION OF DIGITAL TECHNICAL INFORMATION FOR PAGE-BASED TECHNICAL MANUALS
MIL-STD-40051-2	-	PREPARATION OF DIGITAL TECHNICAL INFORMATION FOR PAGE-BASED TECHNICAL MANUALS.

HANDBOOKS

DEPARTMENT OF DEFENSE

MIL-HDBK-1222	-	Guide to the General Style and Format of U.S. Army Work Package Technical Manuals.
MIL-HDBK-2361	-	Implementation Guidance for Digital Publications Development.
MIL-HDBK-28001	-	Application of MIL-PRF-28001 Using Standard Generalized Markup Language (SGML).

(Unless otherwise indicated, copies of the above specifications, standards, and handbooks are available from Document Automation & Production Services (DAPS), 700 Robbins Avenue, Building 4/Section D, Philadelphia, PA 19111-5094. **(Telephone) 215-697-6257 (URL) http://www.dodssp.daps.mil**.)

2.2.2 Other Government Documents, Drawings, and Publications. The following other Government documents, drawings, and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation.

REGULATIONS

AR 25-30	-	The Army Publishing Program (APP).
DA PAM 25-40	-	Army Publishing: Action Officers Guide.

(Attain copies from Uniform Resource Locator **(URL) http://www.usapa.army.mil**.)

TRADOC Reg 25-36	-	The TRADOC Doctrinal Literature Program (DLP).
TRADOC Reg 350-70	-	Systems Approach to Training Management, Processes, and Products.

(Attain copies from Uniform Resource Locator **(URL) http://www.tradoc.army.mil/tpubs**.)

(Unless otherwise indicated, copies of the above regulations and pamphlets are available from U.S. Army Publications Distribution Center, 1655 Woodson Road, St. Louis, MO 63114–6181.)

2.3 Non-Government Publications. The following document(s) form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DoD adopted are those listed in the issue of the DoDISS cited in the solicitation. Unless otherwise specified, the issues of documents not listed in the DoDISS are the issues of the documents cited in the solicitation.

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO)

ISO 8879	-	Standard Generalized Markup Language (SGML) (DoD adopted).
ISO/IEC 10179	-	Document Style Semantics and Specification Language (DSSSL).
ISO/IEC 10180	-	Standard Page Description Language (SPDL).

(Address application for copies to the American National Standards Institute Inc., 1430 Broadway, New York, NY 10018–3308,**(URL) address is http://www.ansi.org.)**

WORLD WIDE WEB CONSORTIUM

REC-xml- 20001006	-	Extensible Markup Language (XML) Version 1.0 (Second Edition).
REC-xml-names-19990114	-	Namespaces in XML.
REC-xslt 19991116	-	XML Stylesheet Language Transformations (XSL-T) Version 1.0.
REC-xpath-19991116	-	XML Path Language (XPath) Version 1.0.
REC-xsl-20011015	-	XML Stylesheet Language (XSL) Version 1.0.
REC-xlink-20010627	-	XML Linking Language (XLink) Version 1.0.

(Attain copies from Uniform Resource Locator**(URL) http://www.w3.org/TR**.)

2.4 Order of Precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3 DEFINITIONS.

3.1 Definitions.

3.1.1 Acronyms. The following acronyms are used in this standard:

APD	Army Publishing Directorate
AR	Army Regulation
ASRL	Army SGML/XML Registry and Library
ARTEP	Army Training and Evaluation Program
CALS	Continuous Acquisition and Life-Cycle Support
CIR	Department of the Army Circular
CSL	CALS SGML Library
DA	Department of the Army
DoD	Department of Defense
DODISS	Department of Defense Index of Specifications and Standards
DSSSL	Document Style Semantics and Specification Language
DTD	Document Type Definition
EP	Electronic Publication
ETM	Electronic Technical Manual
FOSI	Formatting Output Specification Instance
FPI	Formal Public Identifier
GCSS-A	Global Combat Support System - Army
HTML	Hypertext Markup Language
IEC	International Engineering Consortium
IEP	Interactive Electronic Publication
IETM	Interactive Electronic Technical Manual
IMI	Interactive Multimedia Instruction
ISO	International Organization for Standardization
MAP	Multi—Service Department of the Army Pamphlet
MAR	Multi—Service Army Regulations
OS	Output Specification
PAM	Army Pamphlet
PDL	Page Description Language
SGML	Standard Generalized Markup Language
STP	Soldier Training Publications
STRAP	System Training Plan
TRADOC	Training and Doctrine Command
TR	TRADOC Regulation
URL	Uniform Resource Locator
W3C	World Wide Web Consortium
XLink	XML Linking Language
XML	Extensible Markup Language
XPATH	Extensible Path Language
XSL	Extensible Stylesheet Language
XSL-FO	Extensible Stylesheet Language for Formatting Objects
XSL-T	Extensible Stylesheet Language Transformations

3.1.2 Glossary. These definitions are for terms found in this standard, are based on those available in ISO 8879, and are repeated here for convenience only. For the full set of formal SGML/XML definitions, see ISO 8879.

3.1.2.1 Attribute (of an Element). A characteristic quality, other than element_type or content.

3.1.2.2 Attribute Definition. A member of an attribute definition list within an attribute list declaration. It declares an attribute name, specifies the form and SGML-specific aspects of possible values, and specifies the action (such as providing a default value) to be taken if an attribute's value is not specified. In the display under ATTRIBUTE (Definition) LIST DECLARATION, each attribute definition is shown as: name_of_attribute allowable_values default.

3.1.2.3 Attribute (Definition) List Declaration. A markup declaration that associates an attribute definition list with one or more element types, shown as: <ATTLIST name_of_associated_element(s) name_of_attribute allowable_values default>.

3.1.2.4 Attribute (Specification) List. Markup that is a set of one or more attribute specifications, shown as: attribute=value attribute=value attribute=value. The markup is used within a Start Tag, as in: <element_name attribute=value attribute=value attribute=value>.

3.1.2.5 Data-Oriented. The SGML document instance used for data referencing, i.e. database. The SGML document instance is used to populate data management system, which is used in various ways as reference information, developing publication, source for EP/IEP, etc.

3.1.2.6 Declaration Subset. A delimited portion of a markup declaration in which other declarations can occur.

3.1.2.7 Document Instance. The instance is the actual document text and its accompanying SGML tags conforming to the specifications and restrictions set forth in the DTD and stored in an ASCII text format.

3.1.2.8 Document Type Declaration. A markup declaration describes the root element and designates a document type definition (DTD), shown as:

```
<!DOCTYPE required_root_element_type required_formal_public_identifier
 required_system_identifier [optional_document_type_declaration_subset]>
```

3.1.2.9 Document Type Definition (DTD). An abstract collection of rules, determined by an application, that apply SGML/XML to the markup of documents of a particular type.

3.1.2.10 Electronic Publication. A electronic page-based representation that provides concise, user-friendly information for instruction, repair, policy or guidance. The EP may interact with other EP or IEP information.

3.1.2.11 Element. A component of the hierarchical structure defined by a document type declaration. It is identified in a document instance by descriptive markup, usually a start-tag and end-tag, shown as: <element_type_name attribute=value attribute=value> content of the element </element_type_name>.

3.1.2.12 Element Type Declaration. A markup declaration that contains the formal specification of the part of the definition of an element type that deals with the content and markup minimization, shown as: <!ELEMENT element_name content_model>.

3.1.2.13 Entity. A collection of characters or other data that can be referenced as a unit.

3.1.2.14 Entity Reference. A reference that is replaced by an entity, shown as: &entity_name; or %entity_name; the ampersand is used for general entities (referenced in the document element); the percent sign is used for parameter entities (typically referenced in the document type definition.)

3.1.2.15 Entity Set. A set of entity (and comment) declarations that are used together.

3.1.2.16 Extensible Markup Language (XML). Extensible Markup Language, as specified in REC-xml-20001006, is a subset of SGML. XML has been designed for ease of implementation and for interoperability with both SGML and HTML.

3.1.2.17 Formatting Output Specification Instance (FOSI). An instance of the Output Specification (OS) that assigns values to the style characteristics for a particular document type definition. The FOSI uses the syntax of an SGML document instance and is designed to format documents for paper delivery.

3.1.2.18 General Entity Declaration. A markup declaration that assigns an SGML/XML name to an entity so that it can be referenced, shown as: <!ENTITY entity_name “entity_text”>.

3.1.2.19 Interactive Electronic Publication. A computerized screen-based representation that provides interaction with weapon system, instructor, student or technician. The IEP can provide training feedback, troubleshoot, fault isolation, and/or training instruction. The functionality is provided by communicating and interacting with selected weapon system components.

3.1.2.20 Interim Document. Interim or partial delivery of a technical publication that allows for Government review prior to final delivery.

3.1.2.21 Legacy Data. Legacy data, for purposes of this standard, will be defined as any data (paper or digital) that has not been SGML-tagged in compliance with the respective functional requirement standards or specifications, this standard, and MIL-PRF-28001.

3.1.2.22 Output File. A text presentation metafile developed through use of a page description language (PDL) is referred to as an output file.

3.1.2.23 Output Specification (OS). A finite set of style characteristics that convey formatting intent for interchange of publications coupled with a mechanism for binding the style characteristics to logical elements in an SGML document type definition. The OS uses the syntax of an SGML document type declaration.

3.1.2.24 Parameter Entity Declaration. Parameter entity declarations are often used as a shorthand method for specifying long model groups or other constructs that may be used many times. Parameter entities are declared using a percent sign followed by at least one space or carriage return before an SGML/XML name, shown as: <!ENTITY % name “entity_text”>.

3.1.2.25 Standard Generalized Markup Language (SGML). Standard Generalized Markup Language, as specified in ISO 8879, is a metalanguage that provides a coherent and unambiguous syntax for describing whatever a user chooses to identify within a document.

3.1.2.26 SGML/XML Constructs. SGML/XML constructs consist of Document Type Definitions (DTD), style sheets, (XML Stylesheet Language (XSL), XML Stylesheet Language – Formatting Object (XSL-FO), Formatting Output Specification Instance (FOSI) or Document Style Semantics & Specification Language (DSSSL)) and SGML/XML tag definitions.

3.1.2.27 SGML Declaration. A markup declaration that specifies the character set, concrete syntax, optional features, and capacity requirements of a document’s markup. It applies to all of the SGML/XML entities of a document.

3.1.2.28 SGML/XML Entity. An entity whose characters are interpreted as markup or data in accordance with ISO 8879.

3.1.2.29 SGML/XML Objects. SGML/XML objects are elements, entities, attributes of elements, public identifiers, notations, and standard tagging schemas.

3.1.2.30 Well-Formed XML Document. A document that complies with REC-xml-19980210 requirements, and complies with the basic rules for writing well-formed XML documents as listed below.

a. Start tags will have corresponding end tags.
b. Elements can not overlap.
c. Element names will start only with letters and underscores. Also, element names may contain letters, numbers, hyphens, periods, and underscores.
d. XML tags are case-sensitive.
e. Empty elements will either have an end tag or close the empty tag with />.
f. Reserved characters (< & > " ’) are replaced with corresponding character sequence (< & > " '.)

g. Each XML document will have a unique root element.
h. Each attribute name in an element is unique.
i. Each attribute name is followed by a value indicator (=) and a quoted string.

3.1.2.31 XML Linking Language (XLink). Define elements that can be used in XML documents to develop and characterize links between resources. XLink provides for more robust linking relationships than do the simple hyperlinks in HTML.

3.1.2.32 XML Path Language (XPath). XPath is a language for addressing parts of an XML document, designed to be used by XSL-T.

3.1.2.33 XML Stylesheet Language for Formatting Objects (XSL-FO). Extensible Stylesheet Language for Formatting Objects is a pagination markup language describing a rendering vocabulary capturing the semantics of formatting information for paginated presentation. The paginated presentation may be displaying multiple separated pages on a screen, on paper or audibly.

3.1.2.34 XML Stylesheet Language Transformations (XSL-T) . Extensible Stylesheet Language Transformations is a templating markup language used to express how a processor creates a transformed result from an instance of XML information. Else the XML transformation is a process that rearranges parts of a document into a new form.

4 GENERAL REQUIREMENTS.

4.1 Text markup. Textual material prepared in accordance with this standard, shall be marked up (tagged) in a manner that conforms to ISO 8879, W3C REC–xml-20001006, CALs compliant, MIL-PRF-28001, and this standard. SGML/XML shall be used:

a. To describe the logical structure and content of Army departmental media in an unambiguous grammar.
b. To assure automated quality control over adherence to that structure (parsing).
c. To develop, deliver and store Army departmental media text in the most easily maintained and updated form.

4.1.1 Source File Delivery Requirements. Textual material marked up in accordance with this standard shall be referred to as a source file. A complete SGML/XML -tagged source file(s) shall be a mandatory part of each final product delivered in accordance with this standard. Delivery of the source file shall be in accordance with MIL-STD-1840, or as directed by the contracting activity.

4.1.2 Support File Delivery Requirements. When this section of the standard is cited by contract, delivery of DTD and style sheet (created in accordance with the DTD) support files shall be in accordance with paragraph 4.2 and paragraph 4.3 of this standard, and in compliance with MIL-STD-1840 or the contract.

4.1.3 Output File Delivery Requirements. When this section of the standard is cited by the contract, delivery of an output file shall be generated from the delivered source file as directed by the contracting activity.

4.1.4 Interim Document Delivery Requirements. Interim deliverables, if required, shall be specified in the contract and may include a source file, output file, or other specified format.

4.2 Document Structure. This section establishes requirements for SGML/XML Document Type Definitions (DTD). A DTD shall be used to define the organization and logical structure of elements, entities, and attributes allowed in a particular document. It shall also be used to control automated processing functions (such as parsing) that support quality assurance requirements.

4.2.1 Conforming Army Departmental Media. Army departmental media developed in accordance with the functional requirements cited in this standard, and shall conform to the document type declaration set defined in paragraph 4.4.3 of this standard, or as otherwise specified in the contract. The document type declaration specified in paragraph 4.4.3 need not be delivered with the tagged text, but shall be cited by its public and/or system identifier.

4.3 Style Sheet. The style sheet provides a set of formatting characteristic values used to rigorously describe composition processing functions to be performed on the elements of a text document to provide the format style required by a functional specification or standard, such as MIL-STD-40051-1 and -2, AR 25-30 or TRADOC Reg 350-70. A style sheet (i.e. FOSI, XSL-T) delivered with the document shall contain values of characteristics for every tag used in the DTD, in every context in which the tag has a unique formatting requirement, and with its attributes if they affect the formatting.

4.3.1 Conforming Publications. Publications encoded in SGML/XML, in accordance with this standard (see paragraph 1.3.1 or paragraph 1.3.2), shall be accompanied by a style sheet compatible with the DTD. The style sheet incorporates the requirements for output format and style stated in the controlling specification or standard.

4.3.2 Output Files. An output file may be specified by the contract as an interim deliverable (that is, a deliverable prior to final delivery of the SGML/XML -tagged source file (see paragraph 6.2).) An output file may also be specified by the contract as a final deliverable in addition to (but not as a substitute for) the SGML/XML tagged source file.

4.4 Detailed SGML/XML Applications and Requirements.

4.4.1 SGML. Conforming SGML applications shall contain: document type declaration, DTD, document instance, and a style sheet.

4.4.2 XML. XML applications shall contain: document type declaration, DTD, or an XML Schema, document instance and a style sheet.

4.4.3 Document Type Declaration. The document type declaration shall conform to ISO 8879, MIL-PRF-28001, this standard, and reference a contractually specified DTD (see Appendixes A, B, C, and D or E) with a formal public identifier (see paragraph 4.4.4.5). An XML document type declaration shall include a system identifier after the formal public identifier.

4.4.4 Document Type Definition (DTD). The SGML DTD shall conform to ISO 8879 and this standard. An XML DTD shall conform to the XML Declaration (see paragraph 4.4.9), REC-xml-20001006, ISO 8879, and this standard.

4.4.4.1 SGML/XML Object and Construct Reuse. DTDs used for development of Army publications pursuant to this standard, shall contain Army-approved standard SGML/XML objects and constructs as defined by this standard. Army-approved SGML/XML objects and constructs shall be obtained from the ASRL for use in development of all Army publications developed using SGML/XML.

4.4.4.2 SGML/XML Object and Construct Tailoring. Tailoring of SGML/XML objects and constructs is allowed when required to meet specific publications functional requirements. However, such tailoring shall occur within the parameters of existing SGML/XML objects and constructs. The processes for changing existing SGML/XML objects and constructs, or creating new ones, are covered in paragraph 4.4.4.3.

4.4.4.3 SGML/XML Object and Construct Registration. When specified in the contract or other form of agreement (see paragraph 6.2), SGML/XML object and construct requirements for the definition of a document, or class of documents, structure and content that are not covered by Army-approved SGML/XML objects and constructs on the ASRL, shall be submitted to the ASRL for approval. SGML/XML objects and constructs that have not successfully completed the ASRL registration and approval process shall not be used for the development of Army departmental media.

4.4.4.4 SGML/XML Object and Construct Access. Access to Army-approved SGML/XML objects and constructs shall be obtained through the ASRL. Procedures for access to the ASRL are contained in Appendix A, Appendix B, Appendix C, and Appendix D.

4.4.4.5 Formal Public Identifier (FPI). A completed DTD shall have a formal public identifier (FPI) conforming to ISO 8879 and this standard. The FPI shall define a specific version of a completed DTD. A FPI shall not identify more than one DTD, or more than one version of a DTD. Formal public identifiers such as "-//DOD-USA//DTD EXAMPLE MIL-HDBK-28001 V1.0 20000531//EN" shall have the following characteristics:

a. A registered owner identifier. For the DoD, this will be the dash or minus sign (-).
b. An owner identifier, for all DoD components, this shall be "USA-DOD" entered without the quotation marks.
c. A minimal description (called the "public text description" in ISO 8879), divided into two sections:
   (1) Public text class - This is an SGML construct listed in ISO 8879. In the example, the public text class is "DTD".
   (2) Public text description - A short description of the object being identified. In the example, the public text description is "EXAMPLE MIL-HDBK-28001 V1.0 20000531".
d. A two character language code. In the example, the two character code is "EN".

4.4.4.6 System Identifier. A completed XML DTD shall contain a system identifier conforming to this standard. A system identifier specifies the location of the DTD. A system identifier may be found after the root element in a document type declaration or after the formal public identifier. The key word “SYSTEM” is required if the system identifier succeeds the root element in a DTD. If a DTD contains a formal public identifier, the system identifier succeeds the FPI. The keyword “SYSTEM” in a system identifier is not required following a FPI. The following are examples of the system identifier in a DTD:

- <!DOCTYPE product SYSTEM "product.dtd">
- <!DOCTYPE product PUBLIC "-//USA-DOD//DTD MIL-STD-2361 Product//EN" "product.dtd">

4.4.5 Document Instance. The document instance shall conform to ISO 8879, this standard, and the contractually specified DTD.

4.4.5.1 SGML/XML Tagging. There are generally two methods used in SGML/XML to tag documents: structure tagging and content tagging. The method applied to a particular application will depend on the tagging organizations' goals and the applications for which the information is created. Departmental media developed or acquired, in accordance with this standard, shall be tagged in accordance with the requirements contained in this standard and the requirements of the tagging organization implementation guidance.

a. Structure tagging. Structure tagging is used to model and encode publications information according to the structure or format of a document or class of documents. Structure tagging is included as part of the tagging conventions of this standard and shall be used in conjunction with content tagging, to the maximum extent possible, for the acquisition and development of publications.
b. Content tagging. Content tagging is the cornerstone of the MIL-STD-2361 philosophy for data reuse and sharing. Content tagging shall be used to identify document components by the functional nature of the information contained in the respective components (e.g. directives, procedures, maintenance tasks, individual tasks, etc.).
c. Structure and content application. Army departmental media developed or acquired in accordance with this standard shall combine structure and content tagging, to the maximum extent possible, to ensure the highest levels of effectiveness and usefulness of the document instance. Departmental media development shall include the application of generic structure tags, such as title ***<title>*** and general paragraph ***<para>***, when these elements are part of the content model of a content tag. For example, a military specification may state that the body of a document must contain a maintenance chapter, an assembly chapter, and an undetermined number of chapters in that specific order. Elements such as maintenance, assembly, and chapter can be used to provide the content and structure requirements. The element declarations for an XML document can be written as follows:

```
<!ELEMENT body  (maint, assem, chapter+)>
<!ELEMENT maint  (title, section+)>
<!ELEMENT assem  (title, section+)>
<!ELEMENT chapter (title, section+)>
```

This allows the content to be defined explicitly for the maintenance and assembly chapter while still allowing multiple non-content specific chapters to be defined. All of the example chapters have the same content model.

4.4.5.2 Technical Manuals. Each of the MIL-STD-40051-1 and -2 content parts is comprised of a similar structure. The top level is an information tag, such as ***<gim>***, ***<opim>***, ***<mim>***, ***<tim>***, ***<pim>***, or ***<sim>*** (see paragraph 1.5.3). These top-level tags contain specialized sets of work package elements that are, in some cases, unique to the respective chapters, while, in other cases, common to one or more of chapters. For example, maintenance chapter ***<mim>*** can contain work packages comprised of elements that are unique to that chapter, such as service upon receipt work packages ***<surwp>***, preventive maintenance work packages ***<pmcswp>***, maintenance instruction work packages ***<maintwp>***, etc. MIL-STD-2361 has assembled elements that are common to one or more chapters into element subsets that can be invoked by the chapter XML DTD being used. The top level chapter tag shall be used for building one or more work packages.

a. Work package identification number. A unique identification number shall be assigned to each work package and shall not be changed throughout the life of the work package. The work package identification number shall be developed in accordance with the functional requirements in MIL-STD-40051-1 and -2.
b. Work package content. Work packages shall contain information, as required by the functional requirements standard or specification, such as the following:
   (1) Identification block.
   (2) Initial setup.
   (3) Tasks (e.g., maintenance tasks, training tasks, etc.).
   (4) Paragraphs.
   (5) Procedures.
   (6) Steps.
   (7) Tables.
   (8) Lists.

(9) Warnings, cautions, and notes.
(10) Figures.
(11) Illustrations.

4.4.5.3 Training Publications. Each of the training SGML DTDs is composed of a structure which reflects the requirements established in the functional requirements document TRADOC Reg 350-70, Systems Approach to Training Management, Processes, and Products . DTDs were developed by rigidly interpreting the structure, content, and style requirements contained in TRADOC Reg 350-70. Methods of accessing the training DTDs are contained in Appendix C.

4.4.5.3.1 Three Functional Groups . Training information is divided into three functional groups: individual training, collective training and management. Each functional group has one or more DTDs to describe the requirements established in TRADOC Reg 350-70. The functional groups and the top level requirements are the following:

a. Individual Training Soldier Training Publication (STP). The STP contains the training requirements for the soldier.
b. Collective Training Army Training and Evaluation Program (ARTEP).
   (1) Mission Training Plan (MTP) contains unit description and requirements for training for a mission.
   (2) Drill Book contains disciplined, repetitious exercises to train a skill or procedure.
c. Management System Training Plan (STRAP). The STRAP provides a systematic approach to training for the development and integration of new system training.

4.4.5.4 Doctrine Publications. The SGML DTD is composed of a structure which reflects the requirements established in the functional requirements document TRADOC Reg 25-36, The TRADOC Doctrinal Literature Program (DLP). The FMML DTD was developed by rigidly interpreting the structure, content, and style requirements contained in TRADOC Reg 25-36. Methods of accessing the FMML DTD may be found in Appendix D.

Doctrine information is divided into four functional groups: structure, index, standard doctrine terminology, and meta information (e.g., information unique to a proponent activity). Each functional group has a set of SGML tags to describe the respective functional groups and designate content information for markup using the FMML DTD.

4.4.5.4.1 Structure Tagset. The structure tags are generally applicable across all FMs. Structure tags shall be used to designate content information for use in tables of content and indexes. Examples of structure tags are ***<title>*** and ***<emphasis>***.

4.4.5.4.2 Index Tagset. Index tags are also generally applicable across all FMs. Index tags shall be used to designate content information for use in indexes. Examples of structure tags are ***<index.entry>*** and ***<index.item>***.

4.4.5.4.3 Standard Doctrine Terminology Tagset. Standard doctrine terminology tags shall be used for content information (terms) that are used and defined in a standard fashion throughout TRADOC. Examples of structure tags are ***<principles.war principle=offense>*** and ***<combat.func function= maneuver>***.

4.4.5.4.4 Meta Tagset. Meta tags shall be used to identify proponent-specific FM content information. Examples of meta tags are ***<meta content1=mobile subscriber equipment content2=ACUS content3=node center>***.

4.4.5.4.5 FM Paragraph Unique Identification Number. An unique identification number shall be assigned to each FM paragraph. This unique identification number shall be developed by using the FM number assigned by TRADOC (e.g., FM 71 100), followed by the authentication date (e.g., 20 July 97) of the FM, followed by a paragraph sequence number, which will begin as 000001 for the first paragraph. An FM paragraph would appear as FM71 100.1996AUG28.000001.

4.4.5.5 Administrative Publications. The XML DTD is composed of a structure which reflects the requirements established in AR 25-30, Army Publishing Program (APP). An XML DTD was developed by

rigidly interpreting the structure, content, and style requirements contained in AR 25-30. Methods of accessing the administrative publications DTD is contained in Appendix E.

4.4.5.5.1 SGML/XML Requirements. The SGML/XML requirements contained in this standard are applicable to, and shall be used to develop Multi-Service Army Regulation (MAR), Army Regulation (AR), Department of the Army (DA) Circular (CIR), DA Pamphlet (PAM), Manual for Courts–Martial (MCM) and Multi-Service DA Pamphlet (MAP). The administrative publication has one DTD to describe the top level requirements contained in AR 25-30.

4.4.6 Notation Declarations. A notation declaration shall identify a data content notation used within the document. The notation is used in the accompanying application to identify drawings or illustrations which are non-SGML data (NDATA), such as Initial Graphics Exchange Specification (IGES), Computer Graphics Metafile (CGM), Consultative Committee for International Telegraphy and Telephony (CCITT) Group 4, Joint Photographers Experts Group (JPEG), Portable Network Graphics (PNG) and others. Unless otherwise specified, notation declarations used in DTDs and style sheets developed to this standard shall be those contained in the appropriate content specification or standard.

4.4.7 SGML Special Features. Special features shall be defined as specified in the contract or other form of agreement. Examples of special features include requirements for start tags, processing instructions, manual or automatic numbering, in-text references to numbered items, table handling, or additional ISO 8879 features (e.g., SHORTTAG, CONCUR).

4.4.8 Conformance. When required in the contract or other form of agreement (see paragraph 6.2), each SGML/XML document instance shall be subjected to conformance inspection (parsing) in accordance with the contract or other form of agreement.

4.4.9 XML Declaration. The first part of a document prolog informs the user it is an XML document and declares the version of XML being used. The character encoding **utf-8** is the standard Latin characters and can be left out of the XML declaration. The encoding should be declared if it is different from the standard Latin **ISO-8859-1**. The standalone tells the XML processor whether there are any other files to load. The setting of the standalone should be **no** if there are other external entities or a DTD to load. The setting should be **yes** if the file can stand on its own.

```
<?XML version="1.0" encoding="ISO-8859-1" standalone="no"?>
```

5 DETAILED REQUIREMENTS.

5.1 Technical and Equipment Publications.

5.1.1 Technical Manuals (TM). Technical manuals shall be developed using the technical content requirements contained in MIL-STD-40051-1 and -2 and the DTD, style sheet , and tagging requirements contained in paragraph 5.1.1.1 thorough paragraph 5.1.1.2.

5.1.1.1 Purpose. This section establishes the XML requirements for the technical manual production and assembly information for page-, frame-, or data-oriented TMs, revisions, and changes.

5.1.1.2 Support Information. The following support information is provided to assist in the production and assembly of TMs in XML.

a. The DTD in Appendix A has been developed in accordance with the assembly requirements in MIL-STD-40051-1 and -2. Each element in the DTD is accompanied by its associated attributes.
b. The tag description list provided from the ASRL (see Appendix A to obtain the list) shall be used to identify the definition and description of each XML element and its associated attributes.
c. The DTD in Appendix A contains a listing of boilerplate text entities for use in the development of maintenance manuals. The DTD allows for modification of the text associated with the boilerplate if authorized by the contracting activity.
d. The DTD in Appendix A contains the functional requirements applicable to specific maintenance levels are noted throughout the text of MIL-STD-40051-1 and -2 in bold and in parentheses, i.e., **(Depot only)**, and the requirements for each of the levels are addressed in the Production DTD resident on the ASRL. Access methods for the ASRL are in Appendix A. The labeled requirements in MIL-STD-40051-1 and -2 and the corresponding requirements in this standard shall be applicable to all TMs containing the designated maintenance level(s).

5.2 Training Publications. Training publications shall be developed using the technical content requirements contained in the respective functional requirements documents, and the DTD, style sheet, and tagging requirements, contained in paragraph 5.2.1 through paragraph 5.2.3, below.

5.2.1 Army Training and Evaluation Plan (ARTEP).

5.2.1.1 Mission Training Plan (MTP).

5.2.1.1.1 Purpose. This section establishes the requirements for the development and production of page-, frame- or data-oriented Army MTPs, revisions, and changes in SGML.

5.2.1.1.2 Support Information. The following support information is provided to assist in the development and production of Army MTPs in SGML.

a. The DTD in Appendix C has been developed in accordance with the functional requirements contained in TRADOC Reg 350-70. Each element in the DTD is accompanied by its associated attributes.
b. The tag description list provided from the ASRL (see Appendix C to obtain the list) shall be used to identify the definition and description of each SGML element and its associated attributes.

5.2.1.2 Drill Book.

5.2.1.2.1 Purpose. This section establishes the SGML requirements for the preparation of page-, frame- or data-oriented Army Drill Books, revisions, and changes.

5.2.1.2.2 Support Information. The following support information is provided to assist in the development and production of Army Drill Books in SGML.

a. The DTD in Appendix C has been developed in accordance with the functional requirements contained in TRADOC Reg 350-70. Each element in the DTD is accompanied by its associated attributes. Where possible, the content models for the elements conform to MIL-PRF-28001 elements.
b. The tag description list provided from the ASRL (see Appendix C to obtain the list) shall be used to identify the definition and description of each SGML element and its associated attributes.

5.2.2 Soldiers Training Publication (STP).

5.2.2.1 Purpose. This section establishes the requirements for the development and production of page-, frame- or data-oriented Army STPs, revisions, and changes in SGML.

5.2.2.2 Support Information. The following support information is provided to assist in the development and production of Army STPs in SGML.

a. The DTD in Appendix C has been developed in accordance with the functional requirements contained in TRADOC Reg 350-70. Each element in the DTD is accompanied by its associated attributes. Where possible, the content models for the elements conform to MIL-PRF-28001 elements.
b. The tag description list provided from the ASRL (see Appendix C to obtain the list) shall be used to identify the definition and description of each SGML element and its associated attributes.

5.2.3 System Training Plan (STRAP).

5.2.3.1 Purpose. This section establishes the requirements for the development and production of page-based, frame-based or data-oriented Army STRAPs, revisions, and changes in SGML.

5.2.3.2 Support Information. The following support information is provided to assist in the development and production of Army STRAPs in SGML.

a. The DTD in Appendix C has been developed in accordance with the functional requirements contained in TRADOC Reg 350-70. Each element in the DTD is accompanied by its associated attributes. Where possible, the content models for the elements conform to MIL-PRF-28001 elements.
b. The tag description list provided from the ASRL (see Appendix C to obtain the list) shall be used to identify the definition and description of each SGML element and its associated attributes.

5.3 Doctrine Publications. Doctrine publications shall be developed using the technical content requirements contained in TRADOC Reg 25-36, and the DTD, style sheet, and tagging requirements, contained in this section.

5.3.1 Field Manuals (FM).

5.3.1.1 Purpose. This section establishes the requirements for the development and production of page-, frame-, or data-oriented Army FMs, revisions, and changes in SGML.

5.3.1.2 Support Information. The following support information is provided to assist in the development and production of Army FMs in SGML.

a. The FM DTD, in Appendix D, has been developed in accordance with the functional requirements contained in TRADOC Reg 25-36. Each element in the FM DTD is accompanied by its associated attributes. Where possible, the content models for the elements conform to MIL-PRF-28001 elements.
b. The FM tag description list provided from the ASRL (see Appendix D to obtain the list) shall be used to identify the definition and description of each SGML element and its associated attributes.

5.4 Administrative Publications. Administrative publications shall be developed using the structure and format requirements contained in AR 25-30, and the DTD, style sheet, and tagging requirements. The Administrative Publication has one DTD to describe the top level requirements contained in AR 25–30. The DTD for Administrative Publications shall be used to develop the following types of publications.

a. Army Regulation (AR)
b. Multi-Service Army Regulation (MAR)
c. Department of the Army (DA) Circular (CIR)
d. Department of the Army (DA) Pamphlet (PAM)
e. Multi-Service Department of the Army (DA) Pamphlet (MAP)

5.4.1 Purpose. This section establishes the requirements for the development and production of page-, frame- or data-oriented, revisions, and changes in XML.

5.4.2 Support Information. The following support information is provided to assist in the development and production of Administrative Publications in XML. The Administrative Publications DTD, in Appendix E, has been developed in accordance with the structure and format requirements contained in AR 25-30. Each element in the Administrative Publications DTD is accompanied by its associated attributes. Where possible, the content models for the elements conform to MIL-PRF-28001 elements.

6 NOTES.

6.1 Intended Use. The use of DTDs and style sheets will allow for preparation of documents in an automated support environment using any or all of the following processes:

a. Creation of a document type declaration or DTD for publication control, if one does not already exist.
b. Creation of a style sheet, if one does not already exist, to specify the formatting to be applied to documents conforming with the document type declaration.
c. Authoring a publication and inserting SGML/XML markup tags.
d. Verification of correct syntax according to SGML/XML rules.
e. Use of a style sheet and a document type declaration to direct the composition of the document so that the produced (printed or displayed) copy corresponds to the proper format and style.
f. Electronic review of a document, using SGML/XML or an SGML/XML derived presentation format for comments.
g. Generation of a text presentation metafile in a page description language (PDL) to drive the display device, such as a printer or typesetter.

6.2 Acquisition Requirements. Acquisition documents should specify the following:

a. Title, number, and date of the document.
b. Issue of the DoDISS to be cited in the solicitation, and, if required, the specific issue of individual documents referenced. See paragraph 2.2.1 and paragraph 2.3.
c. Statement regarding mandatory use of standard SGML objects and constructs from the ASRL pursuant to paragraph 4.4.4.1.
d. Statement regarding submission of new SGML/XML objects and constructs to the ASRL as candidates for registration and inclusion on the ASRL. See paragraph 4.4.4.3.
e. Values of presentation characteristics. See paragraph 4.3.
f. Use of notation declarations not in a detail specification. See paragraph 4.4.6..
g. Special features. See paragraph 4.4.7..
h. Guidance regarding conformance inspections, parsing, or other qualification requirements. See paragraph 4.4.8.

MIL-STD-40051-1 and -2, Preparation of Digital Technical Information for Multi-Output Presentation of Technical Manuals, MIL-STD-3008, Interactive Electronic Technical Manual (IETM) Technical Data Requirements to Support The Global Combat Support System-Army (GCSS-A), TRADOC Reg 350-70, Systems Approach to Training Management, Processes, and Products, TRADOC Reg 25-36, The TRADOC Doctrinal Literature Program (DLP) and AR 25-30, The Army Publishing Program provide additional information to assist acquisition personnel in determining the options that may need to be placed in the contract or other form of agreement.

6.2.1 Source File Delivery. The DTDs in Appendix A, Appendix B, Appendix C, Appendix D, and Appendix E provide the tools to accomplish the acquisition requirements in paragraph 6.1.a., and paragraph 6.1.c., paragraph 6.1.d. above, the result of which is a complete publication source file, or input file, together with a document type declaration support file. Delivery requirements for source files are in paragraph 4.1.1. It is the source file to which all subsequent changes and updates will be made to maintain the publication throughout its operational life. Therefore, the source file is a mandatory final deliverable when this standard is cited in the contract. Source files containing either the complete text of the publication, or portions of the text, may be delivered as interim products. Through the use of the SGML declaration, the document type declaration, the tag descriptions, style sheet, the delivered source file will contain the complete intelligence required for subsequent processing.

6.2.2 Support File Deliver. An SGML/XML document type declaration is used in paragraph 6.1.a., paragraph 6.1.b., and paragraph 6.1.c. above. Style sheets provide output styles and formatting specifications used to accomplish paragraph 6.1.e. in the document preparation process. The document type definition and the style sheet are support file delivery requirements which are in paragraph 4.1.2. If a public document type definition set is used as publicly defined, has been approved as an Army standard, and is resident on the ASRL, it need only be cited with the delivery. However, the text of the document type definition

set support file will be delivered with the source file when the publication does not conform to the requirements of public document type definition sets identified in Appendix A, Appendix B, Appendix C, Appendix D, and Appendix E and be accompanied by a request for SGML/XML Object and Construct registration approval to the ASRL. A complete style sheet will be delivered with every source file until publicly identified style sheets are available.

6.2.3 Output File Delivery. Paragraph 6.1.g. in the document preparation process requires use of a page description language (PDL) to produce an output file, sometimes called a text presentation metafile, to drive an output device such as a printer. Delivery requirements for output files are in paragraph 4.1.3.

6.2.4 Illustration files. This standard provides the tags by which raster or vector illustration files can be referenced in the source file, and incorporated in the final composed technical publication document. Preparation requirements for publication illustration files are addressed in MIL-PRF-28000, MIL-PRF-28002, and MIL-PRF-28003. Delivery requirements for publication illustration files are also in MIL-STD-1840.

6.2.5 Tables. Tables are typically included as SGML/XML -tagged text in the source file. The definition of the table may be explicitly included in the document instance or may be included through the use of an entity reference to an external or internal table definition. If an external entity is used, it may be one that is publicly identified in Appendix A, Appendix C, Appendix D and Appendix E, or one that is created for use with a particular document instance known as a SYSTEM external entity. A publicly identified entity need not be submitted with a MIL-STD-1840 compliant deliverable, although it will be cited in the document type definition submitted with the document instance. A SYSTEM external entity declaration will be submitted with the MIL-STD-1840 compliant deliverable. When using a document type definition from Appendix A, Appendix C, Appendix D and Appendix E, tables can also be delivered as illustration files (using the graphic element type) where preparation requirements make this alternative more cost effective, or where preparation requirements exceed the capability of the markup tags in Appendix A, Appendix C, Appendix D and Appendix E. Delivery of tables as separate illustration files seriously limits their utility for additional processing, and is discouraged.

6.2.6 Hardcopy and softcopy application. The delivery options in this standard (see paragraph 6.2.2, paragraph 6.2.3, paragraph 6.2.4, and paragraph 6.2.5) should be applied based on an analysis of how the information is to be used. For example, an output (PDL) file can be used for both electronic publishing of hardcopy and electronic softcopy display, but it cannot support interactive retrieval as can an SGML/XML -tagged text source file.

6.3 Application of Non-Government Standards. Current national and international non-Government standards do not adequately address all seven steps of the publication preparation process. ISO 8879 and W3C REC-xml-20001006 addresses paragraph 6.1.a., paragraph 6.1.c. and paragraph 6.1.d. ISO 10180 supports paragraph 6.1.g. ISO 10179 addresses paragraph 6.1.b. and paragraph 6.1.e. XML Stylesheet Language Transformation (XSL-T) and XML Stylesheet Language for Formatting Objects (XSL-FO) are used for the output specification to satisfy the requirements of paragraph 6.1.b. and paragraph 6.1.e. of the publication preparation process listed in paragraph 6.1. MIL-STD-2361 XML style sheets are available on the ASRL.

6.4 Publication Management and Processing Considerations.

6.4.1 Army Publication Management Considerations. This standard provides the Government and contractor publications manager with tools to be used in determining if a given document is in or out of conformance with this standard, the governing functional requirements (MIL-STD-40051-1 and -2, etc.), or contracting activity direction.

6.4.1.1 Use Of Document Type Definitions. The appropriate MIL-STD-2361 SGML/XML DTD provides a basis for electronically preparing a given publication, and then determining whether the document conforms to the logical constructs within the DTD (i.e., parsing). A syntactic analysis is made by parsing the document. Parsing will verify whether or not the string of tokens conforms to the grammar.

6.4.2 Processing System Considerations. The processing system is a tool of the author and the publication manager. The processing system should ensure the authority of the manager to -

a. Determine whether document corrections are warranted.

b. Set an orderly plan and schedule for such correction.
c. Override the author's interpretation of contract requirements for content, style, and format.

6.4.2.1 Source File Configuration Control. Ideally, the processing system should have the capability to utilize the SGML/XML -tagged source file (plus illustration files) as input to the subsequent composition and output processes. However, this is not a requirement, and intermediate files may be used. Configuration control of changes to either intermediate or output files is necessary, since the final deliverable product is the SGML/XML -tagged source file. All system processing should be governed by the following rule: When corrections are made to a working, intermediate, or output file, corrections will be incorporated in the source file which is the primary final deliverable product under the contract.

6.4.2.2 Spell Checking and Hyphenation. Requirements for spell checking and hyphenation may be specified in the contract. Since processing systems may differ in the way they treat these subjects, users should not expect consistent treatment across system boundaries unless specific requirements are established in advance.

6.4.2.3 Processing Instructions. Processing instructions are a tool provided by SGML/XML to handle unique or unusual conditions. Their use is discouraged, but not disallowed, because it is recognized that in some situations processing instructions are a necessary part of document processing. They are usually system-unique and are ignored by an SGML/XML parser, precluding all control except cursory syntax checks unless additional processing system software is used. Their use or exclusion should be controlled by contract restrictions.

6.5 Subject Term (Key Word) Listing. The following subject terms (key words) are applicable:

Administrative Publication
Army SGML/XML Registry and Library (ASRL)
Assembly
Collective task
Doctrine
Document Type Definition (DTD)
Extensible Markup Language (XML)
General information
Individual task
Information chapter
Information module
Maintenance
Manual
Operator
Output Specification (OS)
Publishing, Electronic
SGML/XML objects and constructs
Standard Generalized Markup Language (SGML)
Supporting information
Tagging, Generic
Theory of operation
Troubleshooting
Work package
XML Stylesheet Language (XSL)
XML Stylesheet Language for Formatting Objects (XSL-FO)
XML Stylesheet Language Transformation Language (XSL-T)

6.6 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

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APPENDIX A
TECHNICAL MANUAL (TM)

A.1 Scope. This appendix contains the abstract for the conforming MIL-STD-2361 Technical Manual (TM) Document Type Definition (DTD) and its Formal Public Identifier (FPI). This appendix is a mandatory part of this standard. The information contained herein is intended for compliance. The MIL-STD-2361 DTD shall be obtained from the Army SGML/XML Registry and Library (ASRL) by the following means:

a. World Wide Web (WWW): ASRL homepage Uniform Resource Locator **(URL) http://www.asrl.com/**
b. U.S. Mail: Requested files will be mailed on CD-ROM. Requests may be submitted as follows:
   (1) Written request:
   Director, Army Publishing Directorate (APD)
   ATTN: JDSO-PAT-S
   2461 Eisenhower Avenue
   Alexandria, VA 22331-0302
   (2) Telephone request:
   Commercial: (703) 325-6231
   DSN: 221-6231

A.1.1 Application. MIL-STD-2361 DTD, tag descriptions and XML text entities contained in this appendix apply to the technical manuals prepared in accordance with this standard and MIL-STD-40051-1 and -2. Data prepared in conformance with these requirements will facilitate the automated storage, retrieval, interchange, and processing of TMs from multiple and different sources, and allow the reuse of common data among multiple products and on different media.

A.1.2 Conformance. The conforming Technical Manual DTD contained in this standard, was developed by rigidly interpreting the structure, content, and style requirements of MIL-STD-2361, and is a logical extension of the requirements contained in MIL-PRF-28001. TM preparers and any other users of this DTD, shall not deviate from the structure, content or style requirements of these standards. This DTD is available for use by TM developers but is mandatory with the use of MIL-STD-2361. TM preparers, and any other users of the MIL-STD-2361 DTD, shall not deviate from the XML tags, tag descriptions and XML text entities, or their intended usage. The DTD, tag descriptions and XML text entities may be obtained through the ASRL as described in paragraph A.1, above.

A.2 Applicable Documents. Refer to Section 2.

A.3 TM Document Type Definition (DTD).

A.3.1 General Preparation and Assembly Information Chapter (Production) DTD.

A.3.1.1 Abstract. This abstract is for: DTD %production; "-//USA-DOD//DTD MIL-STD-2361 TM Assembly REV 3.10 20041012//EN". The DTD describes the XML structure and content tagging conventions for General Preparation and Assembly Information found in MIL-STD-2361 and MIL-STD-40051-1 and -2. The following paragraph(s) describe the requirements for the assembly of a complete manual.

This specification includes instructions for the development of front and rear matter and TM assembly information for each level of maintenance and combinations thereof. For example, TM assembly instructions are given for an operator's manual (-10), a combined operator's/unit maintenance manual (-12), a unit maintenance manual (-20), a combined unit/direct support maintenance manual (-23), etc.

To assemble a complete manual with all of its required parts of the applicable TM (i.e., introductory information, maintenance, troubleshooting, etc.), refer to MIL-STD-2361 and TM Requirements Matrix in MIL-STD-40051-1 and -2 for appropriate.

Distribution Statement A: Approved for public release; distribution is unlimited.

A.3.1.2 Document Type Definition (DTD). The formal public identifier for the DTD is "-//USA-DOD//DTD MIL-STD-2361 TM Assembly REV 3.10 20041012//EN". See paragraph A.1 for information regarding how to obtain the DTD.

A.3.1.3 Elements. The formal public identifier for the elements is "-//USA-DOD//DTD MIL-STD-2361 TM Assembly REV 3.10 20041012//EN". The element production **<*product*>** is the root element of the DTD which provides detailed requirements to develop a Technical Manual. Refer to MIL-STD-2361 and TM Requirements Matrix in MIL-STD-40051-1 and -2 for appropriate work packages to develop a valid Technical Manual.

A.4 Tag Description List for TM DTDs, Entities and Technical Manual (TM) Common Tags. The XML tag description requirements for MIL-STD-2361 Technical Manual (TM) Document Type Definitions (DTD), TM entities and TM common tags may be obtained through the Army SGML/XML Registry and Library (ASRL) as described in paragraph A.1.

A.5 XML Text Entities. The XML text entities referenced in this appendix shall be used to prepare technical manuals in accordance with this standard and MIL-STD-40051-1 and -2. The text entities to be used for development of TMs in compliance with this standard and MIL-STD-40051-1 and -2 may be obtained through the Army SGML/XML Registry and Library (ASRL) as described in paragraph A.1.

APPENDIX B
INTERACTIVE ELECTRONIC TECHNICAL MANUAL (IETM) TECHNICAL DATA REQUIREMENTS TO SUPPORT THE GLOBAL COMBAT SUPPORT SYSTEM-ARMY (GCSS-A)

B.1 Scope. This appendix contains the abstract for the conforming MIL-STD-2361 Interactive Electronic Technical Manual (IETM) Technical Data Requirements to Support the Global Combat Support System-Army (GCSS-A) Document Type Definitions (DTD). This appendix is a mandatory part of this standard. The information contained herein is intended for compliance. The GCSS-A DTD shall be obtained from the Army SGML/XML Registry and Library (ASRL) by the following means:

a. World Wide Web (WWW): ASRL homepage Uniform Resource Locator **(URL) http://www.asrl.com/**

b. U.S. Mail: Requested files will be mailed on CD-ROM. Requests may be submitted as follows:

(1) Written request:

Director, Army Publishing Directorate (APD)
ATTN: JDSO-PAT-S
2461 Eisenhower Avenue
Alexandria, VA 22331-0302

(2) Telephone request:

Commercial: (703) 325-6231
DSN: 221-6231

B.1.1 Application. Data prepared in conformance with these requirements will facilitate the automated storage, retrieval, interchange, and processing of data from multiple and different sources, and allow the reuse of common data among multiple products and on different media. The DTD contained in this appendix shall be prepared in accordance with this standard and MIL-STD-3008.

B.1.2 Conformance. The conforming Global Combat Support System–Army DTD contained in this standard was developed by interpreting the technical content and structure requirements of the functional requirements documents listed above, and are a logical extension of the requirements contained in MIL-PRF-28001. GCSS-A preparers, and any other users of the DTD, XML tags, tag descriptions and XML text entities, shall not deviate from the structure, content, or style requirements of these standards. The GCSS-A DTD, XML tags, tag descriptions and XML text entities, may be obtained through the ASRL as described above in paragraph B.1.

B.2 Applicable Documents. Refer to Section 2.

B.3 Interactive Electronic Technical Manual (IETM) Technical Data Requirements to Support the Global Combat Support System - Army (GCSS-A) DTD.

B.3.1 Global Combat Support System - Army (GCSS-A).

B.3.1.1 Abstract. This DTD provides detailed requirements for collecting and reporting operations, historical, maintenance, and ammunition data for the management and support of aviation and non-aviation weapons systems and their related systems, equipment, components/modules, including flight and mission safety parts.

The data developed in accordance with this DTD will be provided to the Global Combat Support System - Army (GCSS-A).

The GCSS-A provides the Army a seamless, integrated, and interactive communications and automated information system (AIS) at all force levels of combat service support (CSS).

Distribution Statement A: Approved for public release, distribution is unlimited.

B.3.1.2 Document Type Definition (DTD). The formal public identifier for the GCSS-A DTD is "-//USA-DOD//DTD GCSS-A 20020315//EN". See paragraph B.1 for information regarding how to obtain the DTD.

B.4 Tag Description List for the Global Combat Support System - Army DTD, and Entities. The XML tag description requirements for the GCSS-A DTD and entities are contained in the GCSS-A DTD and may be obtained through the Army SGML/XML Registry and Library as described in paragraph B.1.

APPENDIX C
TRAINING PUBLICATIONS

C.1 Scope. This appendix contains abstracts for the conforming MIL-STD-2361 Training Publications Document Type Definitions (DTD) and Formal Public Identifiers (FPI) for their sub-elements. This appendix is a mandatory part of this standard. The information contained herein is intended for compliance. The MIL-STD-2361 DTDs shall be obtained from the Army SGML/XML Registry and Library (ASRL) by the following means:

a. World Wide Web (WWW): ASRL homepage Uniform Resource Locator **(URL) http://www.asrl.com/**

b. U.S. Mail: Requested files will be mailed on CD-ROM. Requests may be submitted as follows:

(1) Written request:

Director, Army Publishing Directorate (APD)
ATTN: JDSO-PAT-S
2461 Eisenhower Avenue
Alexandria, VA 22331-0302

(2) Telephone request:

Commercial: (703) 325-6231
DSN: 221-6231

C.1.1 Application. Data prepared in conformance with the requirements set forth in this standard will facilitate the automated storage, retrieval, interchange, and processing of training publications from multiple and different sources, and allow the reuse of common data among multiple products and on different media. The DTDs contained in this appendix shall be prepared in accordance with this standard and TRADOC Reg 350-70.

C.1.2 Conformance. The conforming Training Publications DTDs contained in this standard were developed by rigidly interpreting the structure, content, and style requirements of the functional requirements documents listed above, and are a logical extension of the requirements contained in MIL-PRF-28001. Training publications preparers, and any other users of these DTDs, SGML tags, tag descriptions and SGML text entities, shall not deviate from the structure, content, or style requirements of these standards. The training publication DTDs, SGML tags, tag descriptions and SGML text entities, may be obtained through the ASRL as described in the above paragraph C.1.

C.2 Applicable Documents. Refer to Section 2.

C.3 Training Publications Document Type Definitions (DTD).

C.3.1 Army Training and Evaluation Program (ARTEP).

C.3.1.1 Mission Training Plan (MTP).

C.3.1.1.1 Abstract. This DTD is used for the fielding of Army Training and Evaluation Program (ARTEP) product Mission Training Plan (MTP). The MTP is a training document which provides units a clear description of what and how to train critical collective tasks, designed to identify and elaborate on critical wartime missions in terms of comprehensive detailed Training and Evaluation Outlines (T&EO), and is part of the Riemer Digital Library (RDL).

This standard includes instructions for the development of front, body, and rear matter information for MTPs. The DTD also allows development and output of selected parts of a MTP.

Distribution Statement A: Approved for public release, distribution is unlimited.

C.3.1.1.2 Document Type Definition (DTD). The formal public identifier for the MTP DTD is "-//DOD-USA//DTD MTP REV 4.0 20000515//EN". See paragraph C.1 for information regarding how to obtain the MTP DTD.

C.3.1.1.3 Elements. The formal public identifiers for the MTP are the following DTD subsets.

C.3.1.1.3.1 ARTEP Common Elements. The formal public identifier for the ARTEP Subset artep_common.ent elements is "-//DOD-USA//ELEMENTS ARTEP REV 4.0 20000515//EN."

C.3.1.1.3.2 MTP Introductory Information. The formal public identifier for the MTP Introductory Information mtp_intro.ent elements is “-//DOD-USA//ELEMENTS MTP Introduction REV 4.0 20000515//EN.”

C.3.1.1.3.3 MTP Training Exercises. The formal public identifier for the MTP Training Exercises mtp_exercise.ent elements is “-//DOD-USA//ELEMENTS MTP Training Exercise REV 4.0 20000515//EN.”

C.3.1.1.3.4 MTP Collective Tasks. The formal public identifier for the MTP Collective Tasks mtp_task.ent elements is “-//DOD-USA//ELEMENTS MTP Collective REV 4.0 20000515//EN.”

C.3.1.1.3.5 MTP Supporting Information. The formal public identifier for the MTP Supporting Information mtp_support.ent elements is "-//DOD-USA//ELEMENTS MTP Support Information REV 4.0 20000515//EN.”

C.3.1.1.3.6 Drill Book Task Elements. The formal public identifier for the Drill Book Subset drill_task.ent elements is “-//DOD-USA//ELEMENTS Drill REV 4.0 20000515//EN.”

C.3.1.2 Drill Book.

C.3.1.2.1 Abstract. This DTD is used for the fielding of Army Training and Evaluation Program (ARTEP) product Drill Book. The Drill Book is a collective action executed by a platoon or smaller unit that is a trained response to a given stimulus. A drill is executed with minimal leader orders and without the application of a deliberate decision-making process.

This standard includes instructions for the development of front, body, and rear matter information for Drill Books. The DTD also allows development and output of selected parts of a Drill Book.

Distribution Statement A: Approved for public release, distribution is unlimited.

C.3.1.2.2 Document Type Definition (DTD). The formal public identifier for the Drill Book DTD is “-//DOD-USA//DTD Drill Book REV 4.0 20000515//EN”. See paragraph C.1 for information regarding how to obtain the Drill Book DTD.

C.3.1.2.3 Elements. The formal public identifiers for the Drill Book are the following DTD subsets.

C.3.1.2.3.1 ARTEP Common Elements. The formal public identifier for the ARTEP Subset artep_common.ent elements is “-//DOD-USA//ELEMENTS ARTEP REV 4.0 20000515//EN.”

C.3.1.2.3.2 Drill Book Task Elements. The formal public identifier for the Drill Book Subset drill_task.ent elements is “-//DOD-USA//ELEMENTS Drill REV 4.0 20000515//EN”.

C.3.1.2.3.3 Drill Book Introductory Information. The formal public identifier for the Drill Book Introductory Information drill_intro.ent elements is “-//DOD-USA//ELEMENTS Drill Introduction REV 4.0 20000515//EN”.

C.3.1.2.3.4 Drill Book Supporting Information. The formal public identifier for the Drill Book Supporting Information drill_support.ent elements is “-//DOD-USA//ELEMENTS Drill Support Information REV 4.0 20000515//EN”.

C.3.2 Soldier Training Publications (STP) DTD. This standard includes instructions for the development of front, body, and rear matter information for STPs. The DTD also allows development and output of selected parts of a STP.

C.3.2.1 Abstract. This DTD provides the trainers and soldiers the task summaries for all critical tasks in a specific Military Occupational Speciality (MOS) and Skill Level (SL). It identifies the references which contain the detailed task procedural (how to) information necessary to perform and/or train the task.

This standard includes instructions for the development of front, body, and rear matter information for Soldier Training Publications. The DTD also allows development and output of selected parts of a Soldier Training Publications.

Distribution Statement A: Approved for public release, distribution is unlimited.

C.3.2.2 Document Type Definition (DTD). The formal public identifier for the Soldier Training Publications DTD is fpistp;. See paragraph C.1 for information regarding how to obtain the Soldier’s Training Publications DTD.

C.3.2.3 Elements. The formal public identifiers for the STP are the following DTD subsets.

C.3.2.3.1 STP Common Elements. The formal public identifier for the STP Common Elements stp_common.ent elements is “-//DOD-USA//ELEMENTS STP Common REV 4.0 20000515//EN”.

C.3.2.3.2 STP Introduction Information. The formal public identifier for the STP Individual Tasks stp_intro.ent elements is “-//DOD-USA//ELEMENTS STP Introduction REV 4.0 20000515//EN”.

C.3.2.3.3 STP Trainer’s Guide. The formal public identifier for the STP Trainer’s Guide stp_tg.ent elements is “-//DOD-USA//ELEMENTS Trainer’s Guide WP REV 4.0 20000515//EN”.

C.3.2.3.4 STP Individual Tasks. The formal public identifier for the STP Individual Tasks stp_task.ent elements is “-//DOD-USA//ELEMENTS Individual Task WP REV 4.0 20000515//EN”.

C.3.2.3.5 STP Appendix Information. The formal public identifier for the STP Appendix Information stp_appendix.ent elements is “-//DOD-USA//ELEMENTS STP Appendix REV 4.0 20000515//EN”.

C.3.3 System Training Plan (STRAP) DTD. This standard includes instructions for the development of front, body, and rear matter information for STRAPs. The DTD also allows development and output of selected parts of a STRAP.

C.3.3.1 Abstract. This DTD provides the training developers with a systematic approach for managing the development and integration of training for new systems. It contains detailed instructions for preparation and submission of the System Training Plan (STRAP).

This standard includes instructions for the development of front, body, and rear matter information for the System Training Plan. The DTD also allows development and output of selected parts of the System Training Plan.

Distribution Statement A: Approved for public release, distribution is unlimited.

C.3.3.2 Document Type Definition (DTD). The formal public identifier for the STRAP DTD is fpistrap;. See paragraph C.1 for information regarding how to obtain the STRAP DTD.

C.3.3.3 Elements. The formal public identifier for the STRAP strap_annex.ent elements is "-//DOD-USA//ELEMENTS STRAP Annex REV 4.0 20000515//EN".

C.3.4 Preparation of MIL-STD-2361 Training Common Elements. The following paragraphs list the FPIs for the common subset SGML elements used in one or more MIL-STD-2361 DTDs.

C.3.4.1 Subset element TRADOC_TM.ENT. The formal public identifier for the tradoc_tm.ent is “-//DOD-USA//ELEMENTS ARMY/TRADOC REV 4.0 20000515//EN”.

C.3.4.2 Subset element TRADOC_DOD.ENT. The formal public identifier for the tradoc_dod.ent is “-//DOD-USA//ELEMENTS DOD/TRADOC REV 4.0 20000515//EN”.

C.3.4.3 Subset element TRADOC_ENTITIES.ENT. The formal public identifier for the tradoc_entities.ent is “-//DOD-USA//ENTITIES TRADOC REV 4.0 20000515//EN”.

C.3.4.4 Subset element TRADOC_COMMON.ENT. The formal public identifier for the tradoc_common.ent is "-//DOD-USA//ELEMENTS TRADOC REV 4.0 20000515//EN".

C.4 Tag Description List for Training Publication DTDs, Entities and Training Common Tags. The SGML tag description requirements for MIL-STD-2361 Training Document Type Definitions (DTD), entities and Training common tags may be obtained through the Army SGML/XML Registry and Library (ASRL) as described in paragraph C.1.

C.5 SGML Text Entities. The SGML text entities referenced in this appendix shall be used to prepare Training Publications in accordance with this standard and TRADOC Reg 350-70. The text entities to be used for development of Training Publication in compliance with this standard and TRADOC Reg 350-70 may be obtained through the Army SGML/XML Registry and Library (ASRL) as described in paragraph C.1.

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APPENDIX D
DOCTRINE PUBLICATIONS

D.1 Scope. This appendix contains the abstract for the conforming MIL-STD-2361 Doctrine Publications Document Type Definition (DTD) and Formal Public Identifier (FPI) for its sub-elements. This appendix is a mandatory part of this standard. The information contained herein is intended for compliance. The MIL-STD-2361 DTDs shall be obtained from the Army SGML/XML Registry and Library (ASRL) by the following means:

a. World Wide Web (WWW): ASRL homepage Uniform Resource Locator **(URL) http://www.asrl.com/**

b. U.S. Mail: Requested files will be mailed on CD-ROM. Requests may be submitted as follows:

(1) Written request:

Director, Army Publishing Directorate (APD)
ATTN: JDSO-PAT-S
2461 Eisenhower Avenue
Alexandria, VA 22331-0302

(2) Telephone request:

Commercial: (703) 325-6231
DSN: 221-6231

D.1.1 Application. Data prepared in conformance with the requirements set forth in this standard will facilitate the automated storage, retrieval, interchange, and processing of doctrine publications from multiple and different sources, and allow the reuse of common data among multiple products and on different media. The DTD contained in this appendix shall be prepared in accordance with this standard and TRADOC Reg 25-36.

D.1.2 Conformance. The conforming FMML DTD contained in this standard was developed by rigidly interpreting the structure, content, and style requirements of the functional requirements document TRADOC Reg 25-36, and are a logical extension of the requirements contained in MIL-PRF-28001. Doctrine publications preparers, and any other users of the doctrine DTD, SGML tags, tag descriptions and SGML text entities, shall not deviate from the structure, content, or style requirements of these standards. The doctrine publications DTD, SGML tags, tag descriptions and SGML text entities may be obtained through the ASRL as described in the above paragraph D.1.

D.2 Applicable Documents. Refer to Section 2.

D.3 Doctrine Publications Document Type Definition (DTD).

D.3.1 Field Manual Markup Language (FMML). This standard includes instructions for the development of front, body, and rear matter information for Field Manuals (FM). The DTD also allows development and output of selected parts of a FM.

D.3.1.1 Abstract. This FMML DTD describes the SGML structure tagging conventions found in MIL-STD-2361 for U.S. Army Training and Doctrine Command (TRADOC) field manuals. FMs are Department of the Army (DA) publications that describe Army doctrine and tactics. FMs also implement ratified international standardization agreements. They are normally the basis for development of training materials.

This standard includes instructions for the development of front, body, and rear matter information for Field Manuals (FM). The DTD also allows development and output of selected parts of a FM.

Distribution Statement A: Approved for public release, distribution is unlimited.

D.3.1.2 Document Type Definition (DTD). The formal public identifier for the FMML DTD is "-//DOD-USA//DTD FMML REV 4.0 20000515//EN". See paragraph D.1 for information regarding how to obtain the FMML DTD.

D.3.1.3 Elements. The formal public identifier for the FM fm_common.ent elements is "-//DOD-USA//ELEMENTS Doctrine Content Tags REV 4.0 20000515//EN".

D.3.2 Preparation of MIL-STD-2361 Doctrine Common Elements. The following paragraphs list the FPIs for the common subset SGML elements used in MIL-STD-2361 FMML DTD.

D.3.2.1 Subset element TRADOC_TM.ENT. The formal public identifier for the tradoc_tm.ent is "-//DOD-USA//ELEMENTS ARMY/TRADOC REV 4.0 20000515//EN".

D.3.2.2 Subset element TRADOC_DOD.ENT. The formal public identifier for the tradoc_dod.ent is "-//DOD-USA//ELEMENTS DOD/TRADOC REV 4.0 20000515//EN".

D.3.2.3 Subset element TRADOC_ENTITIES.ENT. The formal public identifier for the tradoc_entities.ent is "-//DOD-USA//ENTITIES TRADOC REV 4.0 20000515//EN".

D.3.2.4 Subset element TRADOC_COMMON.ENT. The formal public identifier for the tradoc_common.ent is "-//DOD-USA//ELEMENTS TRADOC REV 4.0 20000515//EN".

D.4 Tag Description List for Doctrine Publications Field Manual Markup Language (FMML) Document Type Definitions (DTD), Entities and Doctrine Common Tags. The SGML tag description requirements for MIL-STD-2361 Field Manual Markup Language (FMML) Document Type Definitions (DTD), entities and Doctrine common tags may be obtained through the Army SGML/XML Registry and Library (ASRL) as described in paragraph D.1.

D.5 SGML Text Entities. The SGML text entities referenced in this appendix shall be used to prepare Doctrine publications in accordance with this standard and TRADOC Reg 25-36. The text entities to be used for development of Doctrine publication in accordance with this standard and TRADOC Reg 25-36 may be obtained through the Army SGML/XML Registry and Library (ASRL) as described in paragraph D.1.

APPENDIX E
ADMINISTRATIVE PUBLICATIONS

E.1 Scope. This appendix contains abstracts for the conforming MIL-STD-2361 Administrative Publications Document Type Definitions (DTD) and Formal Public Identifiers (FPI) for their sub-elements. This appendix is a mandatory part of this standard. The information contained herein is intended for compliance. The MIL-STD-2361 DTDs shall be obtained from the Army SGML/XML Registry and Library (ASRL) by the following means:

a. World Wide Web (WWW): ASRL homepage Uniform Resource Locator **(URL) http://www.asrl.com/**
b. U.S. Mail: Requested files will be mailed on CD-ROM. Requests may be submitted as follows:
   (1) Written request:
   Director, Army Publishing Directorate (APD)
   ATTN: JDSO-PAT-S
   2461 Eisenhower Avenue
   Alexandria, VA 22331-0302
   (2) Telephone request:
   Commercial: (703) 325-6231
   DSN: 221-6231

E.1.1 Application. Data prepared in conformance with the requirements set forth in this standard will facilitate the automated storage, retrieval, interchange, and processing of administrative publications from multiple and different sources, and allow the reuse of common data among multiple products and on different media. The DTD contained in this appendix shall be prepared in accordance with this standard and AR 25-30.

E.1.2 Conformance. The conforming Administrative Publications DTD contained in this standard was developed by rigidly interpreting the structure, content, and style requirements of AR 25-30, and are a logical extension of the requirements contained in MIL-PRF-28001. Administrative publications preparers, and any other users of this DTD, SGML tags, tag descriptions and SGML text entities, shall not deviate from the structure, content, or style requirements of these standards. The Administrative Publications DTD, XML tags, tag descriptions and XML text entities may be obtained through the ASRL as described in the above paragraph E.1.

E.2 Applicable Documents. Refer to Section 2.

E.3 Administrative Publications Document Type Definitions (DTD).

E.3.1 Document Type Definition (DTD). The formal public identifier for the DTD is "-//DOD-USAPA//DTD Administrative Publication REV 6.5 20030318//EN". See paragraph E.1 for information regarding how to obtain the Administrative Publications DTD.

E.3.1.1 Abstract. This DTD is used for the fielding of various administrative publication products Army Regulation (AR), Multi-Service Army Regulation (MAR), Department of the Army (DA) Pamphlet (PAM), Multi-Service DA Pamphlet (MAP), and Department of the Army (DA) Circular (CIR).

The AR is an official Army directive, which sets forth missions, responsibilities, and policies; and establish procedures to ensure uniform compliance with those policies.

The MAR is an official multi–service publication that applies to more than one military department or Government agency. MARs contain policies, procedures, and information that are needed to perform a mission or function common to two or more military departments, DoD agencies, or other Government agencies. Department of the Army (DA) is the designated executive agent for development, coordination, and publication of MARs.

DA CIRs are temporary directive publications that expire two years or less after date of issue.

DA PAMs are permanent procedures, specific guidelines or referenced data publications. A standard pamphlet is organized and printed in the same format as an AR.

MAPs are permanent procedures, specific guidelines or referenced data publications that apply to more than one military department or government agency. A standard pamphlet is organized and printed in the same format as an AR.

This standard includes instructions for the development of front, body, and rear matter information for administrative publications. The DTD also allows development and output of selected parts of an administrative publication.

Distribution Statement A: Approved for public release, distribution is unlimited.

E.4 Tag Description List for Administrative Publication DTD and Entities. The XML tag description requirements for MIL-STD-2361 Administrative Publications Document Type Definitions (DTD), entities and Doctrine common tags may be obtained through the Army SGML/XML Registry and Library (ASRL) as described in paragraph E.1.

E.5 XML Text Entities. The XML text entities referenced in this appendix shall be used to prepare administrative publications in accordance with this standard and AR 25-30. The text entities to be used for development of administrative publication in accordance with this standard and AR 25-30 may be obtained through the Army SGML/XML Registry and Library (ASRL) as described in paragraph E.1.

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CONCLUDING MATERIAL

Custodians:
Army - AC1

Review Activities:
Army - AC1, AR, AT, AV, CR, EA, MI, PT

Preparing Activity:
Army - AC1

Project Number:
IPSC-0075

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STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.

2. The submitter of this form must complete blocks 4, 5, 6, and 7.

3. The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comment submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

I RECOMMEND A CHANGE:	1. DOCUMENT NUMBER MIL-STD-2361C(AC)	2. DOCUMENT DATE 20041015

3. DOCUMENT TITLE
Digital Publications Development

4. NATURE OF CHANGE ***(Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)***

5. REASON FOR RECOMMENDATION

6. SUBMITTER

a. NAME *(Last, First, Middle Initial)*	b. ORGANIZATION	
c. ADDRESS *(include Zip Code)*	d. TELEPHONE *(include Area Code)* (1) Commercial (2) DSN	7. DATE SUBMITTED *(YYYYMMDD)*

8. PREPARING ACTIVITY

a. NAME Army Publishing Directorate	b. TELEPHONE (Include Area Code) (1) Commercial (703) 325-6231 (2) DSN 221-6231
c. ADDRESS *(Include Zip Code)* ATTN: JDSO-PAT-S Hoffman Bldg 1 2461 Eisenhower Ave Alexandria, VA 22331-0302	IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT: Defense Standardization Program Office (DLSC-LM) 8725 John J. Kingman Road, Suite 2533 Fort Belvoir, Virginia 22060-6221 Telephone (703) 767-6888 DSN 427-6888