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NAVY MILITARY SPECIFICATION

MASTER LIBRARY DATA ELEMENTS (FOR TECHNICAL PUBLICATIONS)

Published by direction of Commander, Space and Naval Warfare Systems Command.

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NAVY MILITARY SPECIFICATION

MASTER LIBRARY DATA ELEMENTS FOR TECHNICAL PUBLICATIONS

1.0 SCOPE

1.1 Scope. This Navy Military Specification provides a uniform set of data elements necessary to track and control information in Navy technical publications at the master library level. The Specification provides a schema to index technical publications and to interchange indexed technical publications between contractors, Navy technical data repositories, and the Navy user community. This Specification is applicable to technical publications, which have either been converted to digital format through scanning of existing publications or created directly on an automated document processing system (i.e. word processor, authoring system). The Specification defines a logical file structure which will permit interchange by magnetic tape, diskette, or optical media. The basic requirement is that the interchange medium support a file structure.

1.2 Application. This Specification is applicable to the following class of technical data:

Class I – Technical publications and technical manuals including change pages

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: SPAWAR Technical Data Center, Naval Electronic Systems Engineering Center (Code 750), P.O. Box 55, Portsmouth, VA 23705-0055. Use the form provided in the rear of this specification.

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2.0 APPLICABLE DOCUMENTS

2.1 Specifications, Standards, and Handbooks. The following specifications and standards form a part of this Specification to the extent specified herein. Unless specified otherwise, the issues of these documents shall be those listed in the Issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplements thereto, cited in the solicitation.

MILITARY STANDARDS

MIL-STD-1840A	Automated Interchange of Technical Information

FEDERAL STANDARDS

FED-STD-1064	Telecommunications: General Aspects of Group 4 Facsimile
FED-STD-1065	Telecommunications: Facsimile Coding Schemes and Coding Control Functions for Group 4 Facsimile Apparatus

MILITARY SPECIFICATIONS

MIL-D-28000	Digital Representation for Communication of Product Data: Application Subsets
MIL-M-28001	Markup Requirements and Generic Style Specification for Electronic Printed Output and Exchange of Text

2.2 Other Government Documents and Publications. The following other Government documents, drawings, and publications form a part of this Specification to the extent specified herein.

FIPS PUB 79	Magnetic Tape Labels and File Structure for Information Interchange
FIPS PUB 128	Computer Graphics Metafile (CGM) (ANSI X3.122)
ANSI 14.26M	Initial Graphics Exchange Specification (IGES)
NAVMAT Instruction 4160.1	Standard Technical Manual Identification Memory System

2.3 Order of Precedence. In the event of a conflict between the text of this Specification and the references cited herein, the text of this Specification shall take precedence.

2.4 Sources of Documents. Copies of the referenced federal and military specifications and standards are available from the Department of Defense Single Stock Point, Commanding Officer, Navy Publications and Forms Center (NPFC), 5801 Tabor Avenue, Philadelphia, PA 19120. For specific acquisition functions, these documents should be obtained from the contracting activity or as directed by the contracting activity. FIPS PUB documents are available to government agencies only from NPFC; non-governmental availability is from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161. ANSI X3.122 and ANSI 14.26M can be obtained from American National Standards Institute, 1430 Broadway, New York, NY 10081 or from NPFC Philadelphia.

3.0 REQUIREMENTS

3.1 General Indexing and Retrieval Requirements. The operational user of technical manuals and publications requires ease of ability to locate specific technical information contained in a given technical manual. The user should be able to randomly access the following information elements, which must be indexed accordingly:

- a given document (in a library sense)
- the cover of the given technical manual
- the list of effective pages
- the record of changes
- the promulgation letter
- the table of contents
- the list of illustrations
- the list of tables
- the document index (if the document contains one)
- a given table
- a given figure (or foldout)
- a given page
- a given paragraph or sub-paragraph
- warnings and cautions

At the current time, indexing for keywords and key phrases, outside of that already contained in an existing hardcopy document index (if the document contains one), is not needed for the scanned pages. Therefore, there is no current requirement for explicit content tagging. This Specification supports hypertext search and retrieval mechanisms (i.e., non-linear text), as well as emerging auto-indexing and auto-tagging concepts.

3.2 Specification Concept. Figure 3-1 depicts the logical file structure for the interchange of technical manual scanned information. The file structure is consistent with magnetic tapes as defined in MIL-STD-1840A, but is extensible to random access magnetic and optical storage media. For a given technical publication on any given technical information exchange medium, there shall be:

– a Document Declaration File (per MIL-STD-1840A) with data entered into specific records. The Document Declaration File is required by MIL-STD-1840A. MIL-STD-1840A defines the block length for magnetic tape. In this Specification, several records in the Document Declaration File have been broadened in scope and further defined to contain document-level data elements. Additionally, this Specification extends the indexing of MIL-STD-1840A to allow a particular record tag to be used more than once (i.e., duplicated). There shall be one Document Declaration File for each technical publication contained on the exchange medium. Document-level indexing information contained within the Document Declaration File will be assimilated into the master library.

– at least one Data File (and likely many data files) which contain the information content of the technical publication. Per MIL-STD-1840A, data files may contain: SGML-tagged (Standard Generalized Markup Language) text, a Document Type Definition (DTD) containing no textual data, an output specification for a targeted composition or electronic display system, IGES data (Initial Graphics Exchange Specification), a raster image, CGM data (Computer Graphics Metafile), special word files, Page Description Language (PDL) data, and Grey-Scale (or halftone) data. Each data file shall have identifying header records. This Specification defines the data file header records in greater detail than MIL-STD-1840A. Specifically, the "notes" record in the data files has been broadened in scope and further defined to contain data elements for the technical information content conveyed in the data file. Also, this Specification extends MIL-STD-1840A to allow duplication of header records. Duplicated header records will be added at the end of the core

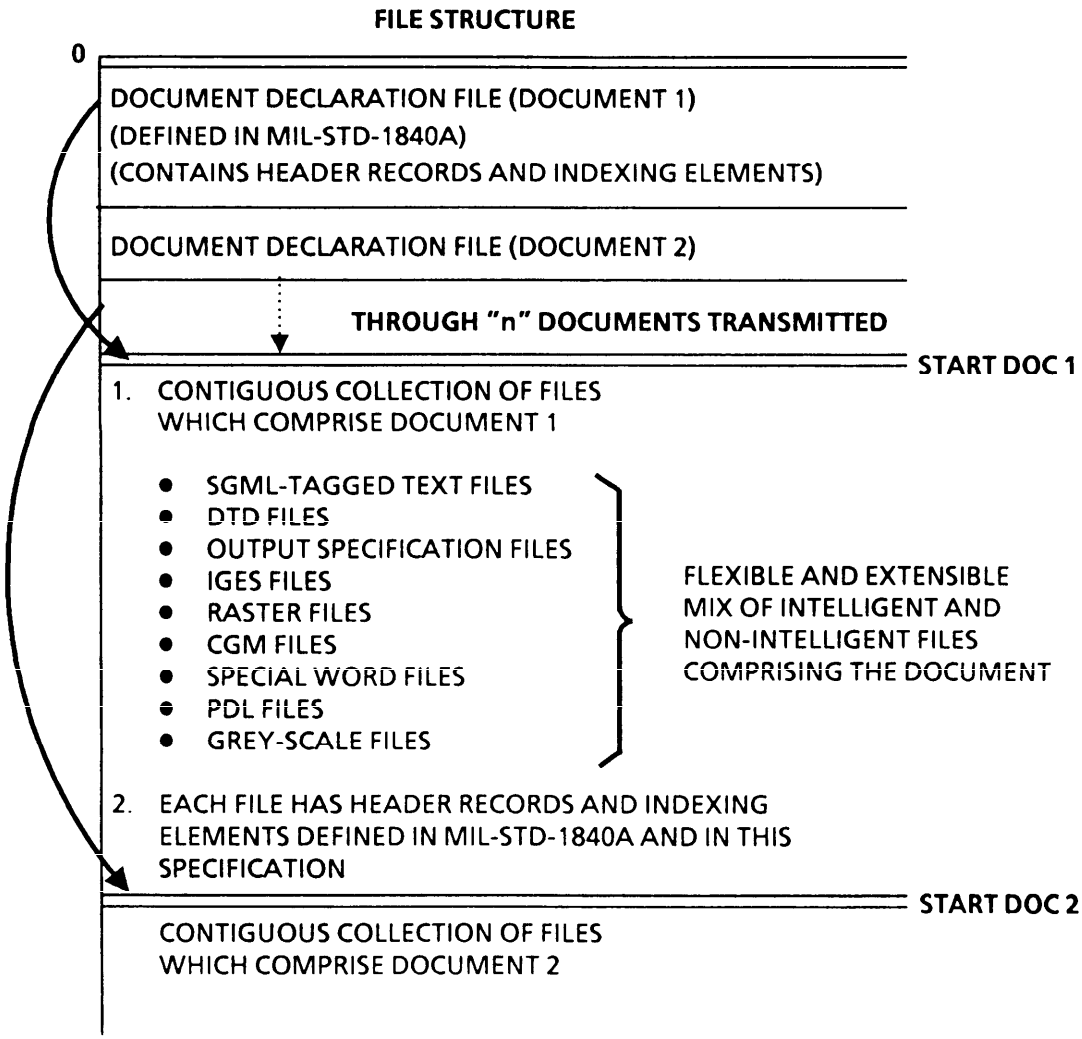

Figure 3-1. Logical file structure for interchange of Navy technical data per MIL-STD-1840A

records required by MIL-STD-1840A and in the same order as the core records. This indexing information is intended to be assimilated into the master library.

3.3 Document Declaration File. For magnetic tape, the Document Declaration File shall be the first file on the medium. For media which support random access, the Document Declaration File shall contain data elements which point to the data files which comprise the document. Each record within the Document Declaration File has a dedicated use, and each record is required. For magnetic tape, the Declaration File shall precede the data files of the document. Per MIL-STD-1840A, if more than one document is contained on the magnetic tape, all of the declaration files shall be grouped at the beginning of the sequence of files in order to facilitate locating specific documents. For magnetic tape, the group of text and illustration files (i.e., the data files) which constitute a specific document may be in any order, but the group shall be contiguous. Restrictions on physical file order of the Document Declaration File and associated data files do not apply to random access media.

As currently defined in MIL-STD-1840A, the Document Declaration File contains some (but not all) record definitions which are needed for indexing and retrieval at the master library level. Per MIL-STD-1840A, the Document Declaration File contains both a Declaration File Name and Declaration File Data. All of the data written in the Document Declaration File shall be in ASCII character format. The records shall be ANSI Type D variable- length records with a maximum record length of 256 bytes (and block lengths of 2048 bytes for magnetic tape). MIL-STD-1840A currently intends that the detailed content and format of information appearing in the Document Declaration File be specified by contract or other agreement prior to actual transmission of documents. Indexing information contained in the Document Declaration File described in MIL-STD-1840A currently includes:

- Declaration File Name
- Character string identifying the source system
- Source system document identifier
- Source system related document identifier
- Highest revision, change level, and date in the document
- Date of issue of the latest change to the document
- Character string identifying the destination system
- Destination system document identifier
- Destination system related document identifier
- Date of transfer
- Delivery accounting character string (e.g., CDRLs, contract numbers)
- File count
- Title security label
- Document security label
- Document type
- Document title

The Document Declaration File shall contain "high-level" information about each of the technical publications which are contained on the interchange media. This information is intended to be absorbed into technical data repository library systems for the purpose of storing and retrieving the digitized technical publication. Within this Specification, the "delivery accounting character string" record (dlvacc:) is further defined to provide additional required data elements for technical publications. MIL-STD-1840A states that this record is a free form record which can pass additional information as further specified. Details regarding data elements to be contained in the Document Declaration File are discussed in Appendix A of this Specification. This Specification adds additional data elements for the National Stock Number, Issuing Activity, Contracts Deliverable Requirements List (CDRL) number, Contract Number, system/equipment type to which document refers, security, volume/part, and a schema for relating this document to other documents (including change pages).

3.4 Data Files. MIL-STD-1840A standardizes the interchange of several different types of data files (e.g., SGML-tagged ASCII text, CGM, IGES, raster, PDL). MIL-STD-1840A states that each data file shall have identifying header records. These header records provide some (but not all) data elements which are required for interactive storage and retrieval of the file. This Specification defines the data file header records in greater detail than MIL-STD-1840A. Specifically, the "notes" record (notes:) has been extended to contain additional data elements for the information content conveyed in the data file. The indexing information in the data file header records is intended to be assimilated in the master library. This Specification assumes that the technical publication to be interchanged will be comprised of a cost effective blend of intelligent data files (i.e., SGML-tagged ASCII text and entity graphics) and non-intelligent data files (i.e., raster images). This Specification can accommodate virtually any ratio of intelligent to non-intelligent data files.

3.4.1 Textual Data Files. MIL-STD-1840A provides for the interchange of SGML-tagged ASCII text data files. The basic DOD SGML tagging set is defined in MIL-M-28001. Sections of the technical publication to be intelligently scanned will be identified in individual contract delivery orders or by user request in the case of interchange between Government activities. Thus, the entire document or a critical minimum number of defined sections and pages may be intelligently scanned (through optical character recognition and raster-to-vector conversion). For sections and pages which are intelligently scanned, this Specification requires that they undergo rigorous quality assurance tests to ensure 100-percent accuracy.

To permit user-friendly interactive technical information retrieval, display, and print-on-demand, this Specification requires that a critical minimum number of technical publication sections be intelligently scanned and SGML-tagged. At a minimum, sections of the technical publication which shall be intelligently scanned will include:

- the Table of Contents
- the List of Illustrations
- the List of Tables
- the Technical Manual Index (if the technical manual has one)

Additionally, if the document to be transmitted is change material only, this Specification requires that the "Instruction Sheet" also be intelligently scanned or produced on an authoring system.

The purpose of having a minimal number of sections intelligently scanned is that the resulting ASCII text files can be easily searched for keywords/phrases and point to explicit pages in the technical manual in a hypertext sense. As required by contract or other form of agreement, other sections or chapters of the technical publication (including possibly the entire document) may be specified to be also intelligently scanned and SGML-tagged.

MIL-STD-1840A provides for three options of interchange of textual data in the technical publication. These options include:

a. All textual material for the document is contained in one single textual data file.

b. Textual material for the technical publication is divided into separate files corresponding to front matter, body matter, and rear matter.

c. Textual material contained within the front, body, and rear matter may be further subdivided into separate sections (e.g., cover, foreword, table of contents, list of tables, list of illustrations, separate parts or chapters, index, glossary, etc.). Each of these sections may be interchanged as separate SGML-tagged textual data files.

MIL-STD-1840A requires that each textual data file shall have identifying header records which contain data elements to be assimilated into the master library. As currently defined in MIL-STD-1840A, the textual data files contain nearly all the record definitions which are needed for indexing and retrieval at the master library level. This Specification adds "effective date" information to the "notes" record. This indexing information can be used to search for the most current update to a given individual section particularly where there is a likelihood of a mix of intelligent and non-intelligent sections. This Specification adds an "index" tag to the notes record. When this tag has a value stream, it means that the following text file is an index file. This index file can be used to pass data elements for engineering drawings such as defined in the EDMICS (Engineering Data Management Information Control System) specification. This index text file can be applied both to IGES files and raster files. Additionally, this Specification adds an "instr" tag to indicate whether the text file contains an instruction sheet for change material. This specification also adds a "V28001" tag to the notes record to indicate the effective date of the MIL-M-28001 specification used to tag the file.

Per MIL-STD-1840A, textual data files contain a textual data file name, data file header records, and the actual SGML-tagged text. The data header records in the text files shall be ANSI Type D variable-length records with a maximum record length of 256 bytes (and block length of 2048 bytes for magnetic tape). The header records are immediately followed by the text records containing the document text and SGML markup. Indexing information contained in the textual data files described in MIL-STD-1840A currently includes:

- Textual Data File Name (indexed to the document)
- Source system document identifier
- Text file identifier
- Destination system document identifier
- Data file security label
- Notes

Within MIL-STD-1840A, the text file identifier record is used to identify the particular section of the technical publication which the file contains. This Specification imposes only one additional indexing requirement on textual data files beyond that described in MIL-STD-1840A and MIL-M-28001. This requirement is for the "effective date" in the notes record. Appendix B of this Specification discusses detailed requirements for indexing of textual data files in technical manuals.

3.4.2 IGES and CGM Data Files. MIL-STD-1840A provides for the interchange of Initial Graphics Exchange Specification (IGES) and Computer Graphics Metafile (CGM) entity illustration data files. The basic DOD applications subset for IGES is defined in MIL-M-28000. A separate DOD applications subset for CGM is currently under development and will be incorporated into this Specification in the future. In MIL-STD-1840A, standards adopted for the transfer of vector entity graphics are ANSI Y14.26M (IGES) and FIPS PUB 128 (CGM). Both standards are applicable to the transfer of graphics data used for illustration purposes. IGES is most likely to be applicable where the data originates from a CAD system. The developing capability of CGM could provide for more efficient transfer and more compact storage of illustration files intended only for inclusion in publications.

MIL-STD-1840A requires that each IGES or CGM data file shall have identifying header records which contain data elements to be assimilated into the master library. Per MIL-STD-1840A, the IGES or CGM data files shall contain an IGES or CGM data file name, data file header records, and the actual IGES or CGM data. MIL-STD-1840A specifies that the IGES data file header records shall be written as ANSI Type F fixed-length 80 byte records (with block lengths of 2000 bytes for magnetic tape). MIL-STD-1840A does not currently specify the header record format for CGM files, though the format for the IGES header records can be used.

For IGES and CGM data files, the header records are immediately followed by the IGES and CGM data. Per MIL-STD-1840A, data elements contained in the IGES and CGM data file header records currently include:

- IGES or CGM Data File Name (indexed to the document)
- Source system document identifier
- Destination system document identifier
- Destination system text subfile identifier
- Figure identifier
- Source system graphics file name
- Data file security label
- Notes

This Specification further defines the notes record to contain additional data elements to be assimilated into the master library. MIL-STD-1840A states that the notes record is a free-form text record consistent with the number of characters permitted for records in the IGES or CGM file. In this Specification, the notes record will contain the name of an associated text file to the IGES or CGM file. The associated text file will contain data elements for the technical content of the engineering drawing or figure. These data elements will be assimilated into technical data repository master library systems for the purpose of storing, retrieving, and otherwise utilizing the engineering drawing or figure. The notes record also contains a data element for the title of a figure. Additionally, this specification adds "effective date" information to the notes record. This indexing information can be used to search for the most current CGM or IGES file. Details regarding data elements to be contained in the IGES or CGM data file and their associated text file are discussed in Appendix C of this Specification.

3.4.3 Raster Data Files. MIL-STD-1840A provides for the interchange of raster data files. At the current time, a military specification for raster interchange and for tiling of large-format raster-scanned drawings and figures is under development. Also, at the current time, there is no other specification which identifies the necessary data elements for the image content on the figure to be rasterized. Accordingly, this Specification provides a listing of data elements which are to be embedded in the raster data file for technical publications. The data elements are intended to facilitate user-friendly rapid access to raster-scanned pages of a technical manual or publication. They will be assimilated into the master library. If the indexing becomes too voluminous to embed into the notes record of the raster data file, the notes record can be used to identify a separate indexing text file for the raster image. This Specification will be updated upon release of the military specification for raster and tiling by the CALS Policy Office.

Per MIL-STD-1840A, the raster data file contains a raster data file name, data file header records, and the actual raster image. The MIL-STD requires that the data file header record in the first block of a raster file be written with 128 byte ANSI type F fixed-length records. The block length is 2048 bytes for magnetic tape. MIL-STD-1840A states that the second and succeeding physical blocks of the file shall contain the compressed raster image data encoded in CCITT Group 4 T6 code (see FED-STD-1064 and FED-STD-1065). For random access media, the image shall start at a file offset of 2048 bytes with padding as required. All the data records shall be written in the first physical block of a tape file, with the block padded to 2048 bytes. Only the raster image will be compressed using the T6 algorithm defined in FED-STD-1065. Indexing information contained in the raster data files described in MIL-STD-1840A currently includes:

- Raster Data File Name (indexed to the document)
- Source system document identifier
- Destination system document identifier
- Destination systems text subfile identifier
- Figure identifier

- Source system graphics file name
- Data file security label
- Notes
- Pixel count
- Orientation and pixel resolution value

The header records in the raster data file contain data elements required to store, access, link, retrieve, and redisplay the raster image. These data elements are intended to be assimilated into the master library. Within this Specification, the "notes record" is further defined to provide additional required data elements for Navy technical publications. Within MIL-STD-1840A, the notes record is a free-form text record consistent with the number of characters permitted for records in the raster data file. This Specification uses the notes record to provide data elements which are keyed to the technical content of the image. If the data elements become too voluminous, the notes record can be used to identify a separate indexing text file for the raster image. In addition, the notes record contains a tag to specify the effective date of the raster file. This indexing information can be used to search for the most current update to a given raster file. MIL-STD-1840A contains a schema to handle foldouts in technical publications.

Unless specified differently elsewhere (i.e., in a delivery order), all pages and sections of the technical manual shall be scanned cover-to-cover, including those pages and sections which have also been specified to be intelligently scanned. The rationale is that in lieu of rapid "on-the-fly" composition and OCR capabilities, it is highly desirable to maintain page and document integrity. Appendix D of this Specification discusses the raster image data elements in detail. The raster image data elements will be embedded into the notes record. Data elements have been developed for:

- Page Number in the Technical Manual
- Chapter Number on the Page
- Chapter Heading on the Page
- Classification of the Page
- Restrictions on the Page
- Figure Number and Caption on the Page
- Table Number and Caption on the Page
- Miscellaneous Heading on the Page
- Paragraph Number and Heading on the Page
- Warning or Caution on the Page
- Page Deliberately Blank

These data elements will be assimilated into technical data repository master library systems for the purpose of storing, retrieving, and otherwise utilizing the raster image. Details regarding data elements to be contained in the raster data file including the notes record are discussed in Appendix D of this Specification.

3.4.4 PDL Data Files. MIL-STD-1840A provides for the interchange of Page Description Language (PDL) data files. However, at the current time, there is no formal standardized page description language, nor is there a formal military specification for a PDL. This Specification requires that a system must provide portability of files. Output file portability will be provided by implementation of the Postscript and Interpress page description language specifications. This Specification does not preclude production of output files utilizing other page description languages where required; however, a conforming system must always produce Post-script and Interpress files. The intent of this requirement is to ensure that the electronic page description files prepared by the system will produce nearly identical hardcopy output on the widest possible spectrum of printer devices. This Specification will be modified to invoke appropriate PDL standards and specifications when such are developed and issued.

MIL-STD-1840A requires that each data file shall have identifying header records which contain data elements to be assimilated into the master library. Per MIL-STD-1840A, the PDL data files contain a PDL data file name, data file header records, and the actual PDL file data. MIL-STD-1840A states that the manner in which PDL header records and PDL data are recorded on magnetic tape or other interchange medium will be in accordance with contract or other form of agreement. Indexing information contained in the PDL data file described in MIL-STD-1840A currently includes:

- PDL Data File Name (indexed to the document)
- Source system document identifier
- Destination system document identifier
- Text file identifier
- Data file security label
- Notes

Within MIL-STD-1840A, the text file identifier record is used to identify the particular section of the publication which the PDL contains (e.g., all, front, rear, table of contents, a specific chapter, index, etc.). This Specification further defines the notes record to contain additional data elements to specify the effective date of the PDL file and to identify whether the file is an Interpress or Postscript file. The data elements contained in the PDL header records and additionally embedded in the notes record will be assimilated into the master library. Appendix E of this Specification discusses the PDL data file data elements in greater detail.

3.4.5 Miscellaneous Data Files. MIL-STD-1840A provides for the interchange of miscellaneous data files including: the Document Type Definition (DTD) containing no textual data, the output specification file, special word files, and grey-scale files. Header records (with data elements) and file structures for these files are currently under development by the CALS Policy Office. Indexing and master library requirements for these files will be incorporated into this Specification as they are defined and promulgated by the CALS Policy Office.

4.0 QUALITY ASSURANCE PROVISIONS

4.1 Printout of Data Elements and Header Records. Unless specified otherwise in the delivery order, the contractor shall provide a printout of the data elements and header records. The printout shall be used to perform quality assurance tests of the data elements.

4.2 Responsibility for Inspection and Compliance. Unless otherwise specified in the contract or delivery order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or delivery order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements herein, unless disapproved by the government. The government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to ensure services conform to prescribed requirements.

5.0 PACKAGING

5.1 Packaging of Magnetic Tape Materials. Packaging of magnetic tape materials, if that is the interchange medium which is specified, shall be in accordance with MIL-STD-1840A.

5.2 Packaging of Optical Disk Materials. Packaging of optical disk materials, including CD-ROM and WORM disks, shall be in accordance with the delivery order.

6.0 NOTES

6.1 Intended Use. This Specification is designed to be incorporated into a contract, purchase order, or delivery order to procure Navy technical publications in digital media. The Specification is applicable to technical publications, which have been converted to digital format through scanning of existing publications or created directly on an authoring system. The Specification provides a uniform set of data elements necessary to track and control information in Navy technical publications at the master library level.

Custodians

NAVY - EC

Review Activities

NAVY - EC, AS, SH

Preparing Activity

NAVY - EC

(Project TMSS-N217)

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APPENDIX A: DATA ELEMENTS IN THE DOCUMENT DECLARATION FILE

A10. SCOPE

A10.1 Scope. This Appendix describes the data elements required to be incorporated into the Document Declaration File for technical publications.

A20. REQUIREMENTS

A20.1 Purpose and Specification Requirements. The Document Declaration File provides high-level indexing information about the technical publication files, engineering drawing files, CGM illustration files, PDL files, grey-scale files, DTD files, and output specification files contained on the transportable medium.

A20.1.1 Tape Volume Labels. The transportable medium within MIL-STD-1840A is currently defined to be magnetic tape. FIPS Pub 79 and MIL-STD-1840A define requirements for the tape volume labels. Information on the tape volume label will also be assimilated into the master library for archival and retrieval purposes. Per MIL-STD-1840A, multi-volume tapes are possible, and several documents can be delivered on a set of tape volumes. MIL-STD-1840A further specifies that to limit confusion and error, a tape set should be limited to three volumes except when a single technical document requires more than three volumes.

A20.1.2 Document Declaration File. For magnetic tape, the Document Declaration File will be the first file on the transportable medium. For random access media, the Document Declaration File shall contain data elements which point to the data files on the medium. The Document Declaration File is fully defined in MIL-STD-1840A. Each record within the Document Declaration File has a dedicated use, and each record is required. The Document Declaration File provides information about the identification, source, destination, classification, etc. of the document and gives a count of the files in the set of files that make up the complete document. This Specification extends the "delivery accounting", "source related document", and "destination related document" records of the Document Declaration File to contain additional indexing information.

A20.1.3 Order of Files on Transportable Media. For magnetic tape, the Declaration File precedes the data files of the document. Per MIL-STD-1840A, if more than one document is contained on the magnetic tape, all of the declaration files shall be grouped at the beginning of the sequence of files in order to facilitate locating specific documents. For magnetic tape, the group of text and illustration files (i.e., the data files) which constitute a specific document may be in any order, but the group must be contiguous. For random access media, these restrictions do not apply.

A20.1.4 Content and Format of Document Declaration File. Per MIL-STD-1840A, the Document Declaration File contains both a Declaration File Name and Declaration File Data. All of the data written in the Document Declaration File shall be in seven-bit ASCII character format. The records shall be ANSI Type D variable-length records with a maximum record length of 256 bytes (and block lengths of 2048 bytes for magnetic tape). MIL-STD-1840A currently intends that the detailed content and format of information appearing in the Document Declaration File be specified by contract or other agreement prior to actual transmission of documents.

A20.2 Data Elements. Data elements are required for the transportable medium volume, the Declaration File Name, and the Declaration File Data.

A20.2.1 Data Elements for the Volume Set. Each transportable medium shall have a volume name and identifying information as specified in MIL-STD-1840A. Indexing information at the volume level will be assimilated into the master library for the purpose of archival storage of the transportable medium. Data elements will be developed to identify and physically locate (in a

"binning" sense) any given transportable medium (i.e., magnetic tape, diskette, EO media). As the master library concept evolves, data elements for physical retrieval will be extended to hardcopy documents such as technical publications, drawings, aperture cards, etc.

A20.2.2 Data Elements for the Document Declaration File Name. Each Document Declaration File Name on the transportable medium shall be four characters long, with the first character being "D" and the next three characters being the ASCII representation of a number from 001 to 999. For multiple documents transmitted as a group, the number will begin at 001 and be incremented sequentially for each document being transmitted in order to provide each document with a unique declaration file name on the transportable medium. Per MIL-STD-1840A, this naming convention is intended to provide "in transit" labels that are not intended to have any significance beyond the point where the master library has assimilated the document into the master library, other than to maintain a copy of the transportable medium for archival purposes. The master library will accordingly have a process defined which will map the Document Declaration File Name and the associated data into a unique identification element such as the technical publication number, engineering drawing number, etc.

A20.2.3 Data Elements for the Document Declaration File Data. All of the records specified in the Document Declaration File are required. MIL-STD-1840A states that when circumstances dictate that there is no relevant data to place in a record, the ASCII string "NONE" shall be used. To limit possible confusion where the value "NONE" might be construed to mean "not any" as opposed to "not applicable" or "unknown", this Specification clarifies the usage of values as follows:

Value	Meaning
NONE	not any or nil (i.e., the record has no value. For example, there may not be any related documents or there may not be any restrictions relative to security)
NA	not applicable (i.e., the record does not apply or is deliberately left blank)
UNKNOWN	not known (i.e., the record may or may not apply, but the value is unknown at the time of transmittal)

Each record shall be tagged with a record identifier. The tag shall end with a colon (:) followed by a space character. In this Specification, tags may be used more than once, especially where there are multiple values to the record. Also, within this Specification, the "delivery accounting record" (dlvacc:), "source related document record" (srcrelid:), and "destination related document record" (dstrelid:) are special records to pass additional indexing information.

DATA ELEMENT DEFINITION FOR DOCUMENT DECLARATION FILE DATA

DATA ELEMENT LABEL: srcsys:

DATA ELEMENT NAME: Source System

DEFINITION: This is a character string containing the information needed to identify the system from which the information originated. This element will identify the delivery contractor or the government activity responsible for production of the document.

ALLOWABLE VALUES: For government contractors this element shall be the contractors five-digit CAGE code. For government agencies this field shall be the six-digit Unit Identification Code(UIC).

EXAMPLES:

For a contractor:

srcsys: 05869

For a government agency:

srcsys: N00189

DATA ELEMENT DEFINITION FOR DOCUMENT DECLARATION FILE DATA

DATA ELEMENT LABEL: srcdocid:

DATA ELEMENT NAME: Source System Document Identifier

DEFINITION: This character string is used by the source system to uniquely identify a document in its library. It is indexing information to be assimilated into the master library from the perspective of being able to refer back to the source system in a receipt sense.

ALLOWABLE VALUES: For government contractors, this element shall contain an alphanumeric character string. For government agencies, this element shall contain the Technical Manual Identification Number (TMIN) in accordance with NAVMAT Instruction 4160.1 or superseding instructions.

EXAMPLES:

For a contractor:

srcdocid: N1234\WP\SLQ32.MAN

For a government agency:

srcdocid: SE211-FB-MMA-011/SPS-10B

DATA ELEMENT DEFINITION FOR DOCUMENT DECLARATION FILE DATA

DATA ELEMENT LABEL: srcrelid:

DATA ELEMENT NAME: Source System Related Document Identifier

DEFINITION: This is a character string which will be used by the master library to identify other documents to which this document is closely related within the source system. This data element will be useful for information bundling purposes where the master library might have to refer back to other documents at the source system. This Specification generalizes this record to provide additional indexing information appropriate to the Navy master library requirements. The types of relationships which may exist include parent-child, sibling, supersedes, superseded by, and changes to.

Extension of this element:

"srcrelid: par: " -- Tag to identify other documents which are parents or superiors of this document

"srcrelid: sub: " -- Tag to identify other documents which are children or subordinate to this document

"srcrelid: spsd: " -- Tag to identify other documents which are superseded by this document

"srcrelid: spsg: " -- Tag to identify other documents which supersede this document

"srcrelid: sibl: " -- Tag to identify sibling or loosely related documents

"srcrelid: chg: " -- Tag to identify a document to which this document is a change package. If there is a value in this data field, the transmitted document is a change package only; otherwise enter NA

ALLOWABLE VALUES: For government contractors, this element shall contain an alphanumeric character string. For government agencies, this element shall contain the Technical Manual Identification Number (TMIN) in accordance with NAVMAT Instruction 4160.1 (or superseding instructions), Engineering Drawing Number, or other unique identifier. There shall be only one value per tag and tags may be repeated for as many related documents as there may exist.

EXAMPLES:

srcrelid: par: SE211-FB-MMA-011/SPS-34C

srcrelid: sub: NONE

srcrelid: spsd: SE211-FB-MMA-011/SPS-34B

srcrelid: spsg: SE211-FB-MMA-011/SPS-34D

srcrelid: sibl: NONE

srcrelid: chg: SE211-FB-MMA-011/SPS-34C

DATA ELEMENT DEFINITION FOR DOCUMENT DECLARATION FILE DATA

DATA ELEMENT LABEL: chglvl:

DATA ELEMENT NAME: Highest Revision, Change Level, and Date

DEFINITION: This is a character string which will provide the highest revision, change level, and associated date of this document. If no changes have been incorporated , this record shall contain the word "ORIGINAL". The date format will be YYYYMMDD, where YYYY is the year, MM is the month, and DD is the day of the month.

This Specification recognizes that the document to be transmitted may be the original, a change package, or the original with the change material already entered.

ALLOWABLE VALUES: This element shall contain the word "ORIGINAL" if the transmitted document is newly issued or has no current changes. Otherwise, the element shall contain a character string containing the revision number, change level, and date separated by commas.

EXAMPLES:

For a document with no incorporated changes:

chglvl: ORIGINAL

For a document with changes incorporated or a change package:

chglvl: D,2,19870122
(indicates revision D, change 2, dated 22 January 1987)

DATA ELEMENT DEFINITION FOR DOCUMENT DECLARATION FILE DATA

DATA ELEMENT LABEL: dteisu:

DATA ELEMENT NAME: Date of Issue of the Latest Change to the Document

DEFINITION: If the document is an original, this data field shall contain the date of issue of the document in YYYYMMDD format.

ALLOWABLE VALUES: For government contractors, this element shall contain the word "NONE" or the date of issue as specified in the contract delivery order. For government agencies, this element shall contain the official date of issue as promulgated by the cognizant activity.

EXAMPLES:

For a contractor:

dteisu: NONE

For a government agency:

dteisu: 19880514

DATA ELEMENT DEFINITION FOR DOCUMENT DECLARATION FILE DATA

DATA ELEMENT LABEL: dstsys:

DATA ELEMENT NAME: Destination System

DEFINITION: This data field will contain a character string containing the UIC, CAGE code, or SNDL List Code necessary to identify the destination system or systems to which the document is transmitted. This Specification recognizes that a source system, such as a distribution point, might be sending the document to a large number of users or destination systems. Under those circumstances, the value of this record will be the SNDL (Standard Navy Distribution List) List Code.

ALLOWABLE VALUES: The allowable values will depend on the destination system or systems. They will be the UIC, the CAGE code, or the SNDL List Code. For contractors, the value of this data element will be specified in the delivery order. Each record may be up to 256 alphanumeric characters.

EXAMPLES:

For a contractor sending the document:

dstsys: N00189

For a government agency sending the document to a SNDL:

dstsys: C080I

DATA ELEMENT DEFINITION FOR DOCUMENT DECLARATION FILE DATA

DATA ELEMENT LABEL: dstdocid:

DATA ELEMENT NAME: Destination System Document Identifier

DEFINITION: This Specification defines this data field to be the Technical Manual Identification Number (TMIN) for technical manuals and the Engineering Drawing Number for drawings. This data field shall provide "high-level" indexing information for uniquely identifying the technical material within the master library. Should the transportable medium contain miscellaneous files such as PDL files, DTD files, or output specification files, a unique identifier number will be specified.

ALLOWABLE VALUES: For government contractors, this element shall be the TMIN number or Engineering Drawing Number (or other unique identifier) as specified in the contract delivery order. For government agencies, this element shall contain the TMIN or Engineering Drawing Number (or other unique identifier) as promulgated by the cognizant activity.

EXAMPLE:

dstdocid: SE211-FB-MMA-011/SPS-10B

DATA ELEMENT DEFINITION FOR DOCUMENT DECLARATION FILE DATA

DATA ELEMENT LABEL: dstrelid:

DATA ELEMENT NAME: Destination System Related Document Identifier

DEFINITION: This record will be a character string used by the master library to identify other documents to which this document is closely related for indexing and interactive retrieval purposes by the destination system. By necessity, the destination system must specify the relationships. This reflects the fact that there may be many destination systems receiving the document, each of which may have a different relational hierarchy. One possible use of this field will be to support hypertext-like jump mechanisms to other documents. Additionally, this data field may be useful to support information bundling applications software within the knowledge-based delivery architecture. This specification generalizes this record to provide additional indexing information appropriate to the Navy master library requirements. The types of relationships which may exist include parent-child, sibling, supersedes, superseded by, and changes to.

Extension of this element:

"dstrelid: par: "	--	Tag to identify other documents which are parents or superiors of this document
"dstrelid: sub: "	--	Tag to identify other documents which are children or subordinate to this document
"dstrelid: spsd: "	--	Tag to identify other documents which are superseded by this document
"dstrelid: spsg: "	--	Tag to identify other documents which supersede this document
"dstrelid: sibl: "	--	Tag to identify sibling or loosely related documents
"dstrelid: chg: "	--	Tag to identify a document to which this document is a change package. If there is a value in this data field, the transmitted document is a change package only; otherwise enter NA

ALLOWABLE VALUES: For government contractors, this element shall be specified in the delivery order. For government agencies, this element shall contain the Technical Manual Identification Number (TMIN) in accordance with NAVMAT Instruction 4160.1 (or superseding instructions), Engineering Drawing Number, or other unique identifier. The destination system must specify the relationships and values if they are to be used. There shall be only one value per tag and tags may be repeated for as many related documents as there may exist.

EXAMPLES:

dstrelid: par: SE211-FB-MMA-011/SPS-34C

dstrelid: sub: NONE

dstrelid: spsd: SE211-FB-MMA-011/SPS-34B

dstrelid: spsg: SE211-FB-MMA-011/SPS-34D

dstrelid: sibl: NONE

dstrelid: chg: SE211-FB-MMA-011/SPS-34C

DATA ELEMENT DEFINITION FOR DOCUMENT DECLARATION FILE DATA

DATA ELEMENT LABEL: dtetrn:

DATA ELEMENT NAME: Date of Transfer

DEFINITION: This data field will contain the date of transfer of the transportable medium in YYYYMMDD format. This is identified to be the shipping date for receipt purposes.

ALLOWABLE VALUES: For data base management purposes, the value will be specified in the delivery order.

EXAMPLE:

dtetrn: 19880122

DATA ELEMENT DEFINITION FOR DOCUMENT DECLARATION FILE DATA

DATA ELEMENT LABEL: dlvacc:

DATA ELEMENT NAME: Delivery Accounting

DEFINITION: Per MIL-STD-1840A, this record is a free-form record intended to give delivery information as specified by contract or another form of agreement. This Specification generalizes this record to provide additional indexing information appropriate to Navy master library requirements.

Extension of this Element:

"dlvacc: nsn: "	--	Tag to identify the National Stock Number
"dlvacc: cdrl: "	--	Tag to identify the contract deliverable requirements list (CDRL) item number
"dlvacc: cont: "	--	Tag to identify the contract number under which the document has been procured
"dlvacc: vol: "	--	Tag to identify the volume number of the document
"dlvacc: part: "	--	Tag to identify the part sequence number of the document
"dlvacc: isu: "	--	Tag to identify the promulgation authority for the document (UIC Code)
"dlvacc: typedesig:"	--	Tag to identify system or equipment to which this document refers

ALLOWABLE VALUES: Allowable values for this element are:

dlvacc: nsn:	13 alphanumeric characters
dlvacc: cdrl:	Up to 10 alphanumeric characters as specified in the delivery order
dlvacc: cont:	Up to 40 alphanumeric characters
dlvacc: vol:	Up to 10 alphanumeric characters or "NA"if the document is a single volume
dlvacc: part:	Up to 10 alphanumeric characters or "NA" if the document is contained in a single part
dlvacc: isu:	The 6-digit UIC code for the promulgating authority
dlvacc: typedesig:	Up to 40 alphanumeric characters

EXAMPLES:

dlvacc: nsn: 00095100953002

dlvacc: cdrl: CDRLA001

dlvacc: cont: N00189-86-D-A050

dlvacc: vol: 1

dlvacc: part: 2

dlvacc: isu: N00189

dlvacc: typedesig: AN/SLQ32

DATA ELEMENT DEFINITION FOR DOCUMENT DECLARATION FILE DATA

DATA ELEMENT LABEL: filcnt:

DATA ELEMENT NAME: File Count

DEFINITION: This record is a character string count of the numbers of each type of data file contained on the transportable medium. This information will be assimilated into the master library for the purpose of maintaining configuration control and management of the document.

ALLOWABLE VALUES: The format of the file count record is defined in MIL-STD-1840A. Actual counts of files will be as specified in delivery orders.

EXAMPLES:

filcnt: T8, Q4, C1, R5

filcnt: T202, R20

DATA ELEMENT DEFINITION FOR DOCUMENT DECLARATION FILE DATA

DATA ELEMENT LABEL: ttlcls:

DATA ELEMENT NAME: Title Security Label

DEFINITION: This record will be a character string stating the highest security level, sensitivity level, or other restrictions on the title of the document. Multiple values shall use multiple tags.

Extension of this Element:

"ttlcls: clas: " -- Tag for the classification of the title

"ttlcls: rest:" -- Tag for a restriction on the dissemination of the title of the document (i.e., NATO, NOFORN, Proprietary, FOUO, NOCONTRACT, etc.)

"ttlcls: rel: " -- Tag for a country to which document title may be released

"ttlcls: code: " -- Tag for a codeword for special access to the document title

"ttlcls: digl: " -- Tag for a two-letter diglyph for special access to the document title

ALLOWABLE VALUES: Allowable values for this element are:

ttlcls: clas: "UNCLASSIFIED", "CONFIDENTIAL", "SECRET", "TOP SECRET"

ttlcls: rest: "NATO", "NOFORN", "Proprietary", "FOUO","NOCONTRACT" or as specified

ttlcls: rel: Up to 40 alphabetic characters or as specified by the contract delivery order

ttlcls: code: Up to 40 characters as specified in the contract delivery order, or as specified by the cognizant activity

ttlcls: digl: As specified in the contract delivery order, or as specified by the cognizant activity

EXAMPLES:

ttlcls: clas: SECRET

ttlcls: rest: NOCONTRACT

ttlcls: rel: NONE (means that document is not releasable to any foreign countries)

ttlcls: code: SPONGE

ttlcls: digl: RR

DATA ELEMENT DEFINITION FOR DOCUMENT DECLARATION FILE DATA

DATA ELEMENT LABEL: doccls:

DATA ELEMENT NAME: Document Security Label

DEFINITION: This record will be a character string stating the highest security level, sensitivity level, or other restrictions on any file in the document. Multiple values shall have multiple tags.

Extension of this Element:

"doccls: clas: " -- Tag for the classification of the document

"doccls: rest: " -- Tag for a restriction on the document (e.g., NATO, NOFORN, Proprietary, FOUO, NOCONTRACT, etc.)

"doccls: rel: " -- Tag for a country to which document may be released

"doccls: code:"-- Tag for a codeword for special access

"doccls: digl: " -- Tag for a two-letter diglyph for special access

ALLOWABLE VALUES: Allowable values for this element are:

doccls: clas: "UNCLASSIFIED", "CONFIDENTIAL", "SECRET", "TOP SECRET"

doccls: rest: "NATO", "NOFORN", "Proprietary", "FOUO", "NOCONTRACT" or as specified

doccls: rel: Up to 40 alphabetic characters or as specified by the contract delivery order

doccls: code: Up to 40 characters as specified in the contract delivery order, or as specified by the cognizant activity

doccls: digl: As specified in the contract delivery order, or as specified by the cognizant activity

EXAMPLES:

doccls: clas: TOP SECRET

doccls: rest: NATO

doccls: rel: NONE

doccls: code: FILTER

doccls: digl: AA

DATA ELEMENT DEFINITION FOR DOCUMENT DECLARATION FILE DATA

DATA ELEMENT LABEL: doctyp:

DATA ELEMENT NAME: Document Type

DEFINITION: The document type record will be a character string used to uniquely identify the scope and purpose of the document. MIL-STD-1840A anticipates that this record will be used to specify whether the document is a job guide, schematic, assembly, troubleshooting guide, etc.

ALLOWABLE VALUES: This field shall contain the document cover title block information as specified in NAVMAT Instruction 4160.1 or superseding instructions. Records will contain a maximum of 256 alphanumeric characters per record.

EXAMPLE:

doctyp: Technical Manual Operations and Maintenance Manual with Illustrated Parts Breakdown

DATA ELEMENT DEFINITION FOR DOCUMENT DECLARATION FILE DATA

DATA ELEMENT LABEL: docttl:

DATA ELEMENT NAME: Document Title

DEFINITION: This record will be a character string providing the document title.

ALLOWABLE VALUES: This element shall contain the document cover prime title information as specified in NAVMAT Instruction 4160.1 or superseding instructions. Records will contain a maximum of 256 alphanumeric characters.

EXAMPLE:

docttl: AN/WRR-7 Receiving Set, Digital Data for AN/URC-62

APPENDIX B: DATA ELEMENTS IN TEXTUAL DATA FILES

B10. SCOPE

B10.1 Scope. This Appendix describes the data elements required to be incorporated into the header records for textual data files for technical publications.

B20. REQUIREMENTS

B20.1 Purpose and Specification Requirements. MIL-STD-1840A provides for the interchange of SGML-tagged ASCII text data files. The basic DOD SGML tagging set is defined in MIL-M-28001.

B20.1.1 Intelligent vs. Raster Scanning of Technical Manual Sections. For existing technical publications, this Specification requires that Sections of the technical publication to be intelligently scanned will be identified in individual contract delivery orders. Thus, the entire document or a critical minimum number of defined sections and pages may be intelligently scanned (through optical character recognition and raster-to-vector conversion). For sections and pages which are intelligently scanned, this Specification also requires that they undergo rigorous quality assurance tests to ensure virtual 100-percent accuracy. The contract delivery order will specify the maximum allowable error rate for OCR-induced errors. The contract delivery order will also specify penalties for such errors.

B20.1.2 Intelligent Scanning of Critical Minimum Number of Sections. To permit user-friendly interactive technical information retrieval, display, and print-on-demand, this Specification currently requires that a critical minimum number of technical publication sections be intelligently scanned and SGML-tagged. At a minimum, sections of the technical publication which will be intelligently scanned will include:

- the Table of Contents
- the List of Illustrations
- the List of Tables
- the Technical Manual Index (if the technical manual has one)

Additionally, if the document that is being transmitted is only change material, the Instruction Sheet which accompanies the change material will be an ASCII text file.

B20.1.3 Purpose of Intelligent Scanning. The purpose of having a minimal number of sections intelligently scanned (or produced directly on an authoring system) is that the resulting ASCII text files can be easily searched for keywords/phrases and point to explicit pages in the technical manual. As required by contract, other sections or chapters of the technical publication (including possibly the entire document) may be specified to be also intelligently scanned and SGML-tagged. This Specification imposes no additional indexing requirements on textual data files beyond that described in MIL-STD-1840A and MIL-M-28001. This Specification is flexible enough to handle indexing of virtually any blend of non-intelligent and intelligent scanning, including changes.

B20.2 Data Elements. MIL-STD-1840A requires that each textual data file shall have identifying header records which contain data elements to be assimilated into the master library. As currently defined in MIL-STD-1840A, the textual data files contain nearly all the record definitions which are needed for indexing and retrieval at the master library. This Specification adds "effective date" information to the "notes" record. This indexing information can be used to search for the most current update to a given individual section particularly where there is a likelihood of a mix of intelligent and non-intelligent sections. This Specification also adds an "index" tag to the notes record to indicate that the text file which follows is an indexing text file to a separate IGES, CGM, or raster file. Additionally, this Specification adds an "instructions" tag to the notes record to pass along instructions when the document being transmitted is only change material. This specification also adds a "V28001" tag to the notes record to indicate the effective date of the MIL-M-28001 specification used to tag the file.

Per MIL-STD-1840A, the textual data files contain a textual data file name, data file header records, and the actual SGML-tagged text. The data header records in the text files shall be ANSI Type D variable-length records with a maximum record length of 256 bytes (and block length of 2048 bytes for magnetic tape). The header records are followed by the text records containing the document text and SGML markup.

B20.2.1 Data Elements for the Textual Data File Name. Each text file shall have a textual data file name, which will be indexed to the document on the transportable medium to which it pertains. The file name shall be eight characters long, with the first four characters being the same as the document declaration file name ("D001" to "D999"). The fifth character will be a "T" identifying it as a textual data file. The last three characters shall be a character representation of a decimal number from "001" to "999". The first textual data file shall use "001", and the number shall increment sequentially for each textual file within the document. Per MIL-STD-1840A, this naming convention provides "in transit" labels that are not intended to have any significance beyond the point where the master library has assimilated the text file, other than to refer back to a given file on the transportable medium for reference purposes. The master library will accordingly have a process defined which will map the textual file data name into a unique identifier which relates to the text stream.

B20.2.2 Data Elements for the Textual Data. All of the records specified in the Textual Data File are required. MIL-STD-1840A states that when circumstances dictate that there is no relevant data to place in a record, the ASCII string "NONE" shall be used. To limit possible confusion where the value "NONE" might be construed to mean "not any" as opposed to "not applicable" or "unknown", this Specification clarifies the usage of values as follows:

Value	Meaning
NONE	not any or nil (i.e., the record has no value. For example, there may not be any related text files or there may not be any restrictions relative to security)
NA	not applicable (i.e., the record does not apply or is deliberately left blank)
UNKNOWN	not known (i.e., the record may or may not apply, but the value is unknown at the time of transmittal)

Each record shall be tagged with a record identifier. The tag shall end with a colon (:) followed by a space character. Within this Specification, the "notes record" (notes:) will be a special record to pass additional indexing information. This includes information regarding effective date of the textual information, whether the text file is an index file, whether the text file contains instructions for accomplishing a change, and the effective date of the version of MIL-M-28001 used to tag the file. For textual data files, the header records are immediately followed by the text records containing the document text and SGML markup.

DATA ELEMENT DEFINITION FOR TEXTUAL DATA FILES

DATA ELEMENT LABEL: srcdocid:

DATA ELEMENT NAME: Source System Document Identifier

DEFINITION: This character string is used by the source system to uniquely identify the text file in its library. It is indexing information to be assimilated into the master library from the perspective of being able to refer back to the source system in a receipt sense.

ALLOWABLE VALUES: For government contractors, this element shall contain an alphanumeric character string. For government agencies, this element shall contain the Technical Manual Identification Number (TMIN) in accordance with NAVMAT Instruction 4160.1 or superseding instructions.

EXAMPLES:

For a contractor:

srcdocid: N1234\WP\SLQ32.MAN\FRONT

For a government agency:

srcdocid: SE211-FB-MMA-011/SPS-10B

DATA ELEMENT DEFINITION FOR TEXTUAL DATA FILES

DATA ELEMENT LABEL: txtfilid:

DATA ELEMENT NAME: Text File Identifier

DEFINITION: The text file identifier code contains information which states which portions of the technical publication are transmitted in the text file. The code that shall be entered is in Table 2 of MIL-STD-1840A. MIL-STD-1840A provides for three options of interchange of textual data in the technical publication. These options include:

a. All textual material for the document is contained in one single textual data file.

b. Textual material for the technical publication is divided into separate files corresponding to front matter, body matter, and rear matter.

c. Textual material contained within the front, body, and rear matter may be further subdivided into separate sections (e.g., cover, foreword, table of contents, list of tables, list of illustrations, separate parts or chapters, document index, glossary, etc.). Each of these sections may be interchanged as separate SGML-tagged textual data files.

Note that MIL-STD-1840A does not currently consider transmission of either a separate indexing text file or an instruction text file for change material. This Specification allows for these possibilities by broadening the scope of the notes record.

ALLOWABLE VALUES: Allowable values for this data element are defined in Table 2 of MIL-STD-1840A. If the text file to be transmitted is either a separate indexing text file or instructions for change material, enter "NA" into this data field.

EXAMPLES:

For a text file containing an entire document:

txtfilid: W

For a text file containing only appendix A of a document:

txtfilid: APP-A

For a text file containing change instructions or a separate indexing file:

txtfilid: NA

DATA ELEMENT DEFINITION FOR TEXTUAL DATA FILES

DATA ELEMENT LABEL: dstdocid:

DATA ELEMENT NAME: Destination System Document Identifier

DEFINITION: This data field contains a character string identifying a unique name for the textual section which is assimilated into the master library.

ALLOWABLE VALUES: For government contractors, this element shall be the TMIN number as specified in the contract delivery order. For government agencies, this element shall contain the TMIN as promulgated by the cognizant activity.

EXAMPLE:

dstdocid: SE211-FB-MMA-011/SPS-10B

DATA ELEMENT DEFINITION FOR TEXTUAL DATA FILES

DATA ELEMENT LABEL: doccls:

DATA ELEMENT NAME: Text File Security Label

DEFINITION: This record will be a character string stating the highest security level, sensitivity level, or other restrictions on the text file. Multiple values shall have multiple tags.

Extension of this Element:

"doccls: clas: "	--	Tag for the classification of the text file
"doccls: rest: "	--	Tag for a restriction on the text file (e.g., NATO, NOFORN, Proprietary, FOUO, NOCONTRACT, etc.)
"doccls: rel: "	--	Tag for a country to which text file may be released
"doccls: code: "	--	Tag for a codeword for special access
"doccls: digl: "	--	Tag for a two-letter diglyph for special access

ALLOWABLE VALUES: Allowable values for this element are:

doccls: clas:	"UNCLASSIFIED", "CONFIDENTIAL", "SECRET", "TOP SECRET"
doccls: rest:	"NATO", "NOFORN", "Proprietary", "FOUO", "NOCONTRACT" or as specified
doccls: rel:	Up to 40 alphabetic characters or as specified by the contract delivery order
doccls: code:	Up to 40 characters as specified in the contract delivery order, or as specified by the cognizant activity
doccls: digl:	As specified in the contract delivery order, or as specified by the cognizant activity

EXAMPLES:

doccls: clas: SECRET

doccls: rest: NOCONTRACT

doccls: rel: NONE

doccls: code: SPONGE

doccls: digl: RR

DATA ELEMENT DEFINITION FOR TEXTUAL DATA FILES

DATA ELEMENT LABEL: notes:

DATA ELEMENT NAME: Notes

DEFINITION: Per MIL-STD-1840A, the notes record is a free-form text record consistent with the number of characters permitted for records in text files. This Specification extends the notes record to provide an effective date for the text file. The effective date will be used to determine whether the section of the technical publication which is transmitted is the most up-to-date. As as extension to MIL-STD-1840A, this Specification also adds elements to identify the text file which follows as a separate indexing text file or instructions to handle change materials. Additional data elements may be added to this record in future revisions to this Specification.

Extension of this Element:

"notes: effdate: " -- Tag for the effective date of this section.

"notes: index: " -- Tag which indicates that the text file which follows is an indexing file to an IGES file or a raster file as indicated by the file name.

"notes: instr: " -- Tag which indicates that the text file which follows contains instructions for handling change material.

"notes: v28001:" -- Tag which indicates the effective date of the MIL-M-28001 version used to tag the file.

ALLOWABLE VALUES: For data base management purposes, the value of the effective date will be specified in the delivery order. The format will be YYYYMMDD.

Index file names shall conform to MIL-STD-1840A naming conventions and format. If the tag is not applicable, the value is NA.

Allowable values for the "notes: instr: " tag shall be "YES" to indicate that the text file which follows contains instructions for change material, or "NA" to indicate otherwise.

Allowable values for the "notes: V28001:" tag shall be the effective date of the version of MIL-M-28001 being used for tagging. The format will be YYYYMMDD.

EXAMPLES:

notes: effdate: 19880331

notes: index: D001R012

notes: instr: YES

notes: v28001: 19880226

APPENDIX C: DATA ELEMENTS IN IGES AND CGM DATA FILES

C10. SCOPE

C10.1 Scope. This Appendix describes the data elements required to be incorporated into the header records for IGES and CGM data files for technical publications.

C20. REQUIREMENTS

C20.1 Purpose and Specification Requirements. MIL-STD-1840A provides for the interchange of Initial Graphics Exchange Specification (IGES) and CGM (Computer Graphics Metafile) entity illustration data files. The basic DOD applications subset for IGES is defined in MIL-M-28000. A DOD applications subset is currently under development for CGM. In MIL-STD-1840A, the standard adopted for the transfer of vector entity graphics is ANSI Y14.26M (IGES). FIPS PUB 128 (ANSI X3.122) defines the Computer Graphics Metafile standard. IGES is the preferred interchange standard where the data originates from a CAD system. CGM may be preferred for illustrations normally found in a technical publication.

C20.2 Data Elements. MIL-STD-1840A requires that each data file shall have identifying header records which contain data elements to be assimilated into the master library. Per MIL-STD-1840A, the IGES and CGM data files contain a data file name, data file header records, and the actual IGES or CGM data. MIL-STD-1840A specifies that the IGES data file header records shall be written as ANSI Type F fixed-length 80 byte records (with block lengths of 2000 bytes for magnetic tape). MIL-STD-1840A does not specify the format for CGM files, though the format for the IGES header records can be used.

C20.2.1 Data Elements for the IGES or CGM Data File Name. Each IGES or CGM data file shall have a data file name, which will be indexed to the document on the transportable medium to which it pertains. The file name shall be eight characters long, with the first four characters being the same as the document declaration file name ("D001" to "D999"). The fifth character will be a "Q" identifying it as an IGES data file or a "C" identifying it as a CGM file. The last three characters shall be a character representation of a decimal number from "001" to "999". The first IGES or CGM data file shall use "001", and the number shall increment sequentially for each IGES or CGM data file within the document. Per MIL-STD-1840A, this naming convention provides "in transit" labels that are not intended to have any significance (beyond the point where the master library has assimilated the IGES or CGM data file) other than to refer back to a given file on the transportable medium for reference purposes. The master library will accordingly have a process defined which will map the IGES or CGM file data name into a unique identifier which relates to the IGES or CGM illustration information.

C20.2.2 Data Elements for the IGES or CGM Data File. All of the records specified in the IGES or CGM Data Files are required. MIL-STD-1840A states that when circumstances dictate that there is no relevant data to place in a record, the ASCII string "NONE" shall be used. To limit possible confusion where the value "NONE" might be construed to mean "not any" as opposed to "not applicable" or "unknown", this Specification clarifies the usage of values as follows:

Value	Meaning
NONE	not any or nil (i.e., the record has no value. For example, there may not be any related illustrations or there may not be any restrictions relative to security)
NA	not applicable (i.e., the record does not apply or is deliberately left blank)

UNKNOWN not known (i.e., the record may or may not apply, but the value is unknown at the time of transmittal)

Each record shall be tagged with a record identifier. The tag shall end with a colon (:) followed by a space character. This Specification further defines the notes record to contain additional data elements to be assimilated into the master library. MIL-STD-1840A states that the notes record is a free-form text record consistent with the number of characters permitted for records in the IGES or CGM file.

In this Specification, the notes record shall contain the name of an associated indexing text file to the IGES or CGM file. The associated text file shall contain data elements as identified in the EDMICS specification. It is intended that these data elements be assimilated into technical data repository library systems for the purpose of storing, retrieving, and otherwise utilizing the engineering drawing or illustration. For IGES or CGM data files, the header records are immediately followed by the IGES or CGM files themselves.

In this Specification, the notes record also contains a tag to identify the figure or engineering drawing title for the IGES or CGM data file. This Specification also adds an "effdate" tag to the notes record. This indexing information can be used to search for the most current update to a given IGES or CGM file.

DATA ELEMENT DEFINITION IGES OR CGM DATA FILES

DATA ELEMENT LABEL: srcdocid:

DATA ELEMENT NAME: Source System Document Identifier

DEFINITION: This character string is used by the source system to uniquely identify the IGES or CGM data file in its library. It is indexing information to be assimilated into the master library from the perspective of being able to refer back to the source system in a receipt sense.

ALLOWABLE VALUES: For government contractors, this element shall contain an alphanumeric character string. For government agencies, this element shall contain the Technical Manual Identification Number (TMIN) in accordance with NAVMAT Instruction 4160.1 or superseding instructions.

EXAMPLES:

For a contractor:

srcdocid: N1234\WP\SLQ32.MAN\IGES365.555

For a government agency:

srcdocid: SE211-FB-MMA-011/SPS-10B

DATA ELEMENT DEFINITION FOR IGES OR CGM DATA FILES

DATA ELEMENT LABEL: dstdocid:

DATA ELEMENT NAME: Destination System Document Identifier

DEFINITION: This data field contains a character string identifying a unique name for the IGES or CGM figure or drawing which is assimilated into the master library.

ALLOWABLE VALUES: For government contractors, this element shall be the TMIN number as specified in the contract delivery order. For government agencies, this element shall contain the TMIN as promulgated by the cognizant activity.

EXAMPLE:

dstdocid: SE211-FB-MMA-011/SPS-10B

DATA ELEMENT DEFINITION FOR IGES OR CGM DATA FILES

DATA ELEMENT LABEL: txtfilid:

DATA ELEMENT NAME: Text File Identifier

DEFINITION: This data element is defined in MIL-STD-1840A. For CGM or IGES illustration files in technical manuals, the value of this field shall be identical to the txtfilid: record of the text file which references this illustration. If, however, no text file references this illustration or the CGM/IGES file is product data, enter NONE.

ALLOWABLE VALUES: The allowable values are identical to txtfilid: in a referencing text file, or NONE.

EXAMPLE:

txtfilid: NONE

DATA ELEMENT DEFINITION FOR IGES OR CGM DATA FILES

DATA ELEMENT LABEL: figid:

DATA ELEMENT NAME: Figure Identifier

DEFINITION: The figure identifier shall be the figure number with which the figure is referenced, with optional sheet numbers preceded by the string "-S" and with optional overflow number preceded by a period character. For example, "5" would be the identifier for figure 5 in the technical publication. "12-S10.3" would be the identifier for overflow drawing 3 of sheet 10 of figure 12. Foldout figures shall be identified with additional "-F" characters followed by the number of 8.5 x 11 inch sheets that will be needed to produce the foldout.

ALLOWABLE VALUES: Allowable values include all figure numbers in the technical publication.

EXAMPLES:

figid: 5

figid: 12-S15.3

figid: 12-F6

DATA ELEMENT DEFINITION FOR IGES OR CGM DATA FILES

DATA ELEMENT LABEL: srcgph:

DATA ELEMENT NAME: Source System Graphics File Name

DEFINITION: This data field is a character string with the string value found with the required attribute "boardno" in the SGML tag "<graphic....>" in the text file to which this IGES or CGM figure is attached.

ALLOWABLE VALUES: The allowable values are determined by the source system. The master library shall assimilate and process this data field to perform the proper association of the IGES or CGM figure with the SGML-tagged text file.

EXAMPLE:

scrgph: /SLQ32/FIG8-3

DATA ELEMENT DEFINITION FOR IGES OR CGM DATA FILES

DATA ELEMENT LABEL: doccls:

DATA ELEMENT NAME: Data File Security Label

DEFINITION: This record will be a character string stating the highest security level, sensitivity level, or other restrictions on the IGES or CGM data file. Multiple values shall have multiple tags.

Extension of this Element:

"doccls: clas: " -- Tag for the classification of the IGES/CGM file

"doccls: rest: " -- Tag for a restriction on the IGES/CGM file (e.g., NATO, NOFORN, Proprietary, FOUO, NOCONTRACT, etc.)

"doccls: rel: " -- Tag for a country to which IGES/CGM file may be released

"doccls: code: " -- Tag for a codeword for special access

"doccls: digl: " -- Tag for a two-letter diglyph for special access

ALLOWABLE VALUES: Allowable values for this element are:

doccls: clas:	"UNCLASSIFIED", "CONFIDENTIAL", "SECRET", "TOP SECRET"
doccls: rest:	"NATO", "NOFORN", "Proprietary", "FOUO", "NOCONTRACT" or as specified
doccls: rel:	Up to 40 alphabetic characters or as specified by the contract delivery order
doccls: code:	Up to 40 characters as specified in the contract delivery order, or as specified by the cognizant activity
doccls: digl:	As specified in the contract delivery order, or as specified by the cognizant activity

EXAMPLES:

doccls: clas: SECRET

doccls: rest: NOCONTRACT

doccls: rel: NONE

doccls: code: SPONGE

doccls: digl: FK

DATA ELEMENT DEFINITION FOR IGES OR CGM DATA FILES

DATA ELEMENT LABEL: notes:

DATA ELEMENT NAME: Notes

DEFINITION: Per MIL-STD-1840A, the notes record is a free-form text record consistent with the number of characters permitted for records in IGES or CGM data files. This Specification extends the notes record to contain a tag which can be used to identify a separate indexing text file which is to be associated with this IGES or CGM data file as well as a tag to identify any associated title.

Extension of this Element:

"notes: index: " -- Tag which provides the name of an associated indexing text file in the DxxxTyyy naming convention.

"notes: titl: " -- Tag to identify the figure title.

"notes: effdate: " -- Tag indicating the effective date of this file.

ALLOWABLE VALUES: The value for the "notes: index: " tag shall be the name of an associated indexing text file in the DxxxTyyy naming convention if such an indexing text file exists. Otherwise, enter NA.

The "notes: titl: " tag may contain up to 80 alphanumeric characters. Its value shall be the figure title for the illustration in the technical manual. If not applicable, enter "NA".

For data base management purposes, the value of the effective date will be specified in the delivery order. The format will be YYYYMMDD.

EXAMPLES:

notes: index: D001T020

notes: index: D023T100

notes: titl: System Components Layout

notes: titl: NA

notes: effdate: 19870912

C20.2.3 Data Elements in an Associated Indexing Text File. The Navy and the Defense Logistics Agency (DLA) are currently developing the Engineering Data Management Information and Control System (EDMICS). The EDMICS design will provide data elements to be appended to engineering drawings and figures. Should it be necessary to interchange engineering drawing or figure data elements, the data elements shall be incorporated into a special text file. The indexing text file shall be associated with the file that references it in the notes record.

The indexing text file shall have a text file name, header records as defined in Appendix B, and the text with the indexing tags embedded. Allowable values for the data elements and whether a given tag is to be used or not are currently under consideration as part of the EDMICS effort. The format for embedding the tags in the indexing text file shall follow SGML convention, namely <tag value>.

APPENDIX D: DATA ELEMENTS IN RASTER DATA FILES

D10. SCOPE

D10.1 Scope. This Appendix describes the data elements required to be incorporated into the header records for raster data files for technical publications.

D20. REQUIREMENTS

D20.1 Purpose and Specification Requirements. MIL-STD-1840A provides for the interchange of raster data files. At the current time, a military specification for raster interchange and for tiling of large format raster-scanned drawings and figures is under development. Also, at the current time, there is no other specification which identifies the necessary data elements for the image content on the figure to be rasterized, whether it is an engineering drawing or a technical publication page.

D20.1.1 Data Elements for Content of Rasterized Image. This Specification provides a listing of data elements which shall be embedded into the "notes" record in the raster data file for technical publications and drawings. If the data elements become too voluminous, the "notes" record shall be used to identify a separate indexing text file which contains the data elements for the raster image. The data elements are intended to facilitate user-friendly rapid access to raster-scanned pages of a technical manual or publication. They will be assimilated into the master library. This Specification will be updated upon release of the military specification for raster and tiling by the CALS Policy Office. MIL-STD-1840A contains a schema to handle foldouts in technical publications.

D20.1.2 Raster Scanning. Unless specified in a delivery order, this Specification further requires that all pages and sections of the technical manual shall be scanned cover-to-cover, including those pages and sections which have also been specified to be intelligently scanned. The rationale is that in lieu of rapid "on-the-fly" composition and OCR capabilities, it is highly desirable to maintain page and document integrity. With regard to page and document integrity, this Specification also provides directions to handle pages that are deliberately blank.

D20.2 Data Elements. Per MIL-STD-1840A, the raster data file shall contain a raster data file name, data file header records, and the actual raster image. MIL-STD-1840A requires that the header record data in the first block of a raster file be written with 128 byte ANSI Type F fixed-length records for magnetic tape. The block length is 2048 bytes for magnetic tape. The second and succeeding physical blocks of the file shall contain the compressed raster image data encoded in CCITT Group 4 T6 code (see FED-STD-1064 and FED-STD-1065). All the data records shall be written in the first physical block of the file, with the block padded to 2048 bytes. For random access media, the image shall start at a file offset of 2048 bytes, with padding as appropriate. Only the raster image will be compressed using the T6 algorithm defined in FED-STD-1065. This method shall be the default method of compression. This Specification provides an additional tag to the notes record to identify an alternative method of compression.

D20.2.1 Data Elements for the Raster Data File Name. Each raster data file shall have a data file name, which will be indexed to the document on the transportable medium to which it pertains. The file name shall be eight characters long, with the first four characters being the same as the document declaration file name ("D001" to "D999"). The fifth character will be an "R" identifying it as a raster data file. The last three characters shall be a character representation of a decimal number from "001" to "999". The first raster data file shall use "001", and the number shall increment sequentially for each raster data file within the document. Per MIL-STD-1840A, this naming convention provides "in transit" labels that are not intended to have any significance (beyond the point where the master library assimilated the raster data file) other than to refer back to a given raster file on the transportable medium for reference purposes. The master library will

accordingly have a process defined which will map the raster data file data name into a unique identifier which relates to the raster image.

D20.2.2 Data Elements for the Raster Data. The header records in the raster data file shall contain data elements required to store, access, link, retrieve, and redisplay the raster image. These data elements are intended to be assimilated into the master library. Within this Specification, the "notes record" is further defined to provide additional required data elements for Navy technical publications. Within MIL-STD-1840A, the notes record is a free-form text record consistent with the number of characters permitted for records in the raster data file. This Specification uses the notes record to provide data elements which are keyed to the technical content of the image. If the data element becomes too voluminous, the notes record shall be used to identify a separate indexing text file for the raster image. In addition, the notes record contains a tag to specify the effective date of the raster file. This indexing information can be used to search for the most current update to a given individual page particularly where there is a likelihood of a mix of intelligent and non-intelligent sections.

All of the records specified in the Raster Data File are required. MIL-STD-1840A states that when circumstances dictate that there is no relevant data to place in a record, the ASCII string "NONE" shall be used. To limit possible confusion where the value "NONE" might be construed to mean "not any" as opposed to "not applicable" or "unknown", this Specification clarifies the usage of values as follows:

Value	Meaning
NONE	not any or nil (i.e., the record has no value. For example, there may not be any paragraph headings on the page or there may not be any restrictions relative to security)
NA	not applicable (i.e., the record does not apply or is deliberately left blank)
UNKNOWN	not known (i.e., the record may or may not apply, but the value is unknown at the time of transmittal)

DATA ELEMENT DEFINITION FOR RASTER DATA FILE

DATA ELEMENT LABEL: srcdocid:

DATA ELEMENT NAME: Source System Document Identifier

DEFINITION: This character string is used by the source system to uniquely identify the raster data file in its library. It is indexing information to be assimilated into the master library from the perspective of being able to refer back to the source system in a receipt sense.

ALLOWABLE VALUES: For government contractors, this element shall contain an alphanumeric character string. For government agencies, this element shall contain the Technical Manual Identification Number (TMIN) in accordance with NAVMAT Instruction 4160.1 or superseding instructions.

EXAMPLES:

For a contractor:

srcdocid: N1234\WP\SLQ32.MAN\Raster55.4

For a government agency:

srcdocid: SE211-FB-MMA-011/SPS-10B

DATA ELEMENT DEFINITION FOR RASTER DATA FILE

DATA ELEMENT LABEL: dstdocid:

DATA ELEMENT NAME: Destination System Document Identifier

DEFINITION: This data field contains a character string identifying a unique name for the raster-scanned image which is assimilated into the master library.

ALLOWABLE VALUES: For government contractors, this element shall be the TMIN number as specified in the contract delivery order. For government agencies, this element shall contain the TMIN as promulgated by the cognizant activity.

EXAMPLE:

dstdocid: SE211-FB-MMA-011/SPS-10B

DATA ELEMENT DEFINITION FOR RASTER DATA FILES

DATA ELEMENT LABEL: txtfilid:

DATA ELEMENT NAME: Text File Identifier

DEFINITION: This data element is defined in MIL-STD-1840A. For raster illustration files in technical manuals, the value of this field shall be identical to the txtfilid: record of the text file which references this illustration. If no text file references this illustration or the raster data file is product data, enter NONE. For raster file page images of technical publications, this record shall contain the page number of the page contained in this raster file.

ALLOWABLE VALUES: The allowable values are identical to txtfilid: in a referencing text file, NONE, or page number of the raster-scanned technical publication page.

EXAMPLES:

txtfilid: NONE

txtfilid: 3-2

DATA ELEMENT DEFINITION FOR RASTER DATA FILE

DATA ELEMENT LABEL: figid:

DATA ELEMENT NAME: Figure Identifier

DEFINITION: The figure identifier shall be the figure number with which the figure is referenced, with optional sheet numbers preceded by the string "-S" and with optional overflow number preceded by a period character. For example, "5" would be the identifier for figure 5 in the technical publication. "12-S10.3" would be the identifier for overflow drawing 3 of sheet 10 of figure 12. Foldout figures shall be identified with additional "-F" characters followed by the number of 8.5 x 11 inch sheets that will be needed to produce the foldout.

ALLOWABLE VALUES: Allowable values include all figure numbers in the technical publication

EXAMPLES:

figid: 5

figid: 12-S13.2

figid: 9-F2

DATA ELEMENT DEFINITION FOR RASTER DATA FILE

DATA ELEMENT LABEL: srcgph:

DATA ELEMENT NAME: Source System Graphics File Name

DEFINITION: This data field is a character string with the string value found with the required attribute "boardno" in the SGML tag "<graphic....>" in the text file to which this raster image is attached.

ALLOWABLE VALUES: The allowable value is determined by the source system. The master library shall assimilate and process this data field to perform the proper association of the raster image with the SGML-tagged text file.

EXAMPLE:

srcgph: /SLQ32/FIG9-1

DATA ELEMENT DEFINITION FOR RASTER DATA FILE

DATA ELEMENT LABEL: doccls:

DATA ELEMENT NAME: Raster Data File Security Label

DEFINITION: This record will be a character string stating the highest security level, sensitivity level, or other restrictions on the raster image file. Multiple values shall have multiple tags.

Extension of this Element:

"doccls: clas: " – – Tag for the classification of the raster file

"doccls: rest: " – – Tag for a restriction on the raster file (e.g., NATO, NOFORN, Proprietary, FOUO, NOCONTRACT, etc.)

"doccls: rel: " – – Tag for a country to which raster file may be released

"doccls: code: " – – Tag for a codeword for special access

"doccls: digl: – – Tag for a two-letter diglyph for special access

ALLOWABLE VALUES: Allowable values for this element are:

doccls: clas:	"UNCLASSIFIED", "CONFIDENTIAL", "SECRET", "TOP SECRET"
doccls: rest:	"NATO", "NOFORN", "Proprietary", "FOUO", "NOCONTRACT" or as specified
doccls: rel:	Up to 40 alphabetic characters or as specified by the contract delivery order
doccls: code:	Up to 40 characters as specified in the contract delivery order, or as specified by the cognizant activity
doccls: digl:	As specified in the contract delivery order, or as specified by the cognizant activity

EXAMPLES:

doccls: clas: SECRET

doccls: rest: NOCONTRACT

doccls: rel: NONE

doccls: code: SPONGE

doccls: digl: RR

DATA ELEMENT DEFINITION FOR RASTER DATA FILE

DATA ELEMENT LABEL: notes:

DATA ELEMENT NAME: Notes

DEFINITION: Per MIL-STD-1840A, the notes record is a free-form text record consistent with the number of characters permitted for records in raster data files. This Specification extends the notes record to provide data elements for the technical content contained in a raster image. Adding indexing information to the non-intelligent raster image adds intelligence. The notes record also contains a tag which can be used to identify a separate indexing text file which is to be associated with this raster data file. All tags must be used. Multiple values shall have multiple tags.

The notes record also contains a schema to handle pages which are deliberately blank. There are two types of deliberately blank pages found in technical manuals: pages which are referenced on a previous page but do not physically exist (DNE), and pages which physically exist and are marked as deliberately blank on the page.

Extension of this Element:

"notes: pgno: "	– –	Tag which identifies the page number of the technical manual which has been scanned
"notes: chpno: "	– –	Tag which lists the chapter number if it is on the scanned page
"notes: chphdg: "	– –	Tag which lists the chapter heading if it is on the scanned page
"notes: class: "	– –	Tag which provides the classification of the scanned page
"notes: restr: "	– –	Tag which lists any restriction on the scanned page
"notes: figno: "	– –	Tag which lists any figure number and its caption which may be on the scanned page
"notes: tablno: "	– –	Tag which lists any table number and its caption which may be on the scanned page
"notes: mishdg: "	– –	Tag which lists any miscellaneous heading or information on the page
"notes: misftr: "	– –	Tag which lists any miscellaneous footer information on the page
"notes: mishdr: "	– –	Tag which lists any miscellaneous header information on the page
"notes: para: "	– –	Tag which lists any paragraph or subparagraph number and its heading which may be on the page
"notes: index: "	– –	Tag which provides the name of an associated indexing text file in the DxxxTyyy naming convention. The value of this tag is NA if all the data elements fit into the notes record.
"notes: compr: "	– –	Tag used to identify CCITT Group 3 or Group 4 compression

"notes: blnk: "	– –	Tag to indicate a page which is left intentionally blank, but which physically exists
"notes: dne: "	– –	Tag to indicate that the page does not exist
"notes: warn: "	– –	Tag to indicate any warnings on the page
"notes: cover: "	– –	Tag to indicate that raster image is of the cover
"notes: title: "	– –	Tag to indicate that raster image is of the title page
"notes: promul: "	– –	Tag to indicate that raster image is of the promulgation letter
"notes: effdate: "	– –	Tag indicating the effective date of this raster page

ALLOWABLE VALUES: Values for this element are as follows:

notes: pgno:	Up to 10 alphanumeric characters
notes: chpno:	Up to 15 alphanumeric characters
notes: chphdg:	Up to 128 alphanumeric characters
notes: class:	"UNCLASSIFIED" "CONFIDENTIAL" "SECRET" "TOP SECRET"
notes: restr:	Up to 30 alphanumeric characters
notes: figno:	Up to 128 alphanumeric characters
notes: tablno:	Up to 128 alphanumeric characters
notes: mishdg:	Up to 128 alphanumeric characters
notes: misftr:	Up to 128 alphanumeric characters
notes: mishdr:	Up to 128 alphanumeric characters
notes: para:	Up to 128 alphanumeric characters
notes: index:	A text file name in accordance with MIL-STD-1840A (DxxxTyyy format) if there is a separate indexing text file to the image "NA" to indicate otherwise
notes: compr:	"CCITTG.3" or "CCITTG.4" to indicate whether Group 3 or Group 4 compression is utilized.
notes: blnk:	"YES" to indicate that the page physically exists, but is deliberately blank (and marked as such). The page shall be scanned and compressed just like any other page. "NA" to indicate otherwise

notes: dne: "YES" to indicate that the page value in the "notes: pgno: " tag is deliberately blank and the page does not physically exist. Under this circumstance, no page will be scanned and the raster data file will end at 2048 bytes with an end of file mark.

"NA" to indicate otherwise

notes: warn: Up to 128 alphanumeric characters

notes: cover: "YES" to indicate that the raster image is of the cover of the document

"NA" to indicate otherwise

notes: title: "YES" to indicate that the raster image is of the title page of the document (distinct from the cover)

"NA" to indicate otherwise

notes: promul: "YES" to indicate that the raster image is of the promulgation letter (including continued pages of the letter)

"NA" to indicate otherwise

notes: effdate: For data base management purposes, the value of effective date will be specified in the delivery order. The format will be YYYYMMDD.

EXAMPLES:

notes: pgno: 3-1

notes: chpno: 3

notes: chphdg: OPERATION

notes: class: UNCLASSIFIED

notes: restr: NONE

notes: figno: FIGURE 3-9 SYSTEM SCHEMATIC

notes: tablno: TABLE 5-1 PARTS LIST

notes: mishdg: TOOLS REQUIRED

notes: misftr: Change 7

notes: mishdr: NONE

notes: para: 3.1 Methodology to Troubleshoot System

notes: para: 3.1.1 Personnel Requirements to Troubleshoot

notes: index: NA

notes: compr: CCITTG.4

notes: blnk: NA

notes: dne: NA

notes: warn: DANGER HIGH VOLTAGE

notes: cover: NA

notes: title: NA

notes: promul: NA

notes: effdate: 19880512

DATA ELEMENT DEFINITION FOR RASTER DATA FILE

DATA ELEMENT LABEL: pixcnt:

DATA ELEMENT NAME: Pixel Count

DEFINITION: The pixel count data field will contain two six-character strings separated by a comma representing the integer count of pixels across the horizontal and vertical dimension of the raster image. Use leading zeros if required.

Note that sometimes on foldouts there is a blank page leading the figure (or illustration) to allow a side-by-side layout of the figure with the text. In this Specification, the leading blank pages shall be ignored unless they contain textual material.

ALLOWABLE VALUES: The value to be entered in this data field will be specified by delivery order insofar as it is a function of pixel resolution.

EXAMPLES:

For an 8.5 x 11.0 image scanned at 75 dots per inch:

pixcnt: 000638,000825

For a 5 x 5 image scanned at 300 dots per inch:

pixcnt: 001500,001500

DATA ELEMENT DEFINITION FOR RASTER DATA FILE

DATA ELEMENT LABEL: pixres:

DATA ELEMENT NAME: Orientation and Pixel Resolution Value

DEFINITION: This data field will contain a four-character string representing the scanning resolution density in the horizontal and vertical directions separated by a comma and followed by a "P" or an "L" to indicate whether the scanned image is in the portrait or landscape mode. Portrait mode shall be taken to mean that the normal viewing orientation of the image is the same as that of the surrounding text. If the figure in the technical manual must be rotated 90-degrees to use it, the orientation is construed to be landscape. Use leading zeros if necessary.

ALLOWABLE VALUES: The contract delivery order will specify the scanning resolution density to use. The source system will enter a "P" or "L" as appropriate.

EXAMPLES:

For a landscape image scanned at 300 dots per inch (dpi):

pixres: 0300,0300,L

For a portrait image scanned at 150 dpi horizontally and 300 dpi vertically:

pixres: 0150,0300,P

APPENDIX E: DATA ELEMENTS IN THE PAGE DESCRIPTION LANGUAGE (PDL) FILE

E10. SCOPE

E10.1 Scope. This Appendix describes the data elements required to be incorporated into the header records for Page Description Language (PDL) data files for technical publications.

E20. REQUIREMENTS

E20.1 Purpose and Specification Requirements. MIL-STD-1840A provides for the interchange of Page Description Language (PDL) data files. However, at the current time, there is no formal standardized page description language, nor is there a formal military specification for a PDL. This Specification requires that a system must provide portability of files. Output file portability will be provided by implementation of the Postscript and Interpress page description language specifications. This Specification does not preclude production of output files utilizing other page description languages where required; however, a conforming system must always produce Postscript and Interpress files. The intent of this requirement is to ensure that the electronic page description files prepared by the system will produce nearly identical hardcopy output on the widest possible spectrum of printer devices. This Specification will be modified to invoke appropriate PDL standards and specifications when such are developed and issued.

E20.2 Data Elements. MIL-STD-1840A requires that each data file shall have identifying header records which contain data elements to be assimilated into the master library. Per MIL-STD-1840A, the PDL data files shall contain a PDL data file name, data file header records, and the actual PDL file data. MIL-STD-1840A states that the manner in which PDL header records and PDL data are recorded on magnetic tape will be in accordance with contract or other form of agreement.

E20.2.1 Data Elements for the PDL File Name. Each PDL data file shall have a data file name, which will be indexed to the PDL file on the transportable medium to which it pertains. The file name shall be eight characters long, with the first four characters being the same as the document declaration file name ("D001" to "D999"). The fifth character will be a "P" identifying it as a PDL data file. The last three characters shall be a character representation of a decimal number from "001" to "999". The first PDL data file shall use "001", and the number shall increment sequentially for each PDL data file within the document. Per MIL-STD-1840A, this naming convention provides "in transit" labels that are not intended to have any significance beyond the point where the master library assimilated the PDL data file, other than to refer back to a given PDL file on the transportable medium for reference purposes. The master library will accordingly have a process defined which will map the PDL data file data name into a unique identifier which relates to the PDL data.

E20.2.2 Data Elements for the PDL File. The header records in the PDL data file contain data elements required to store, access, link, retrieve, and print the PDL data file. These data elements are intended to be assimilated into the master library. Within MIL-STD-1840A, the text file identifier record is used to identify the particular section of the publication which the PDL contains (e.g., all, front, rear, table of contents, a specific chapter, index, etc.). This Specification further defines the notes record to contain additional data elements to specify the effective date of the PDL file and to identify whether the file is an Interpress or Postscript file. The data elements contained in the PDL header records and additionally embedded in the notes record will be assimilated into the master library.

DATA ELEMENT DEFINITION FOR PDL DATA FILES

DATA ELEMENT LABEL: srcdocid:

DATA ELEMENT NAME: Source System Document Identifier

DEFINITION: This character string is used by the source system to uniquely identify the PDL file in its library. It is indexing information to be assimilated into the master library from the perspective of being able to refer back to the source system in a receipt sense.

ALLOWABLE VALUES: For government contractors, this element shall contain an alphanumeric character string. For government agencies, his element shall contain the Technical Manual Identification Number (TMIN) in accordance with NAVMAT Instruction 4160.1 or superseding instructions.

EXAMPLES:

For a contractor:

srcdocid: N1234\WP\SLQ-32.MAN\Postscr333.56

For a government agency:

srcdocid: SE211-FB-MMA-011/SPS-10B

DATA ELEMENT DEFINITION FOR PDL DATA FILES

DATA ELEMENT LABEL: txtfilid:

DATA ELEMENT NAME: Text File Identifier

DEFINITION: The text file identifier code contains information which states which portions of the technical publication are transmitted in the PDL data file. The code that shall be entered is in Table 2 of MIL-STD-1840A. MIL-STD-1840A provides for three options of interchange of PDL data in the technical publication. These options include:

1. All PDL material for the document is contained in one single PDL data file.

2. PDL material for the technical publication is divided into separate files corresponding to front matter, body matter, and rear matter.

3. PDL material contained within the front, body, and rear matter may be further subdivided into separate sections (e.g., cover, foreword, table of contents, list of tables, list of illustrations, separate parts or chapters, index, glossary, etc.). Each of these sections may be interchanged as separate PDL data files.

ALLOWABLE VALUES: Allowable values for this data element are defined in Table 2 of MIL-STD-1840A.

EXAMPLES:

For a PDL file containing an entire document:

txtfilid: W

For a text file containing only the body matter:

txtfilid:BODY

DATA ELEMENT DEFINITION FOR PDL DATA FILES

DATA ELEMENT LABEL: dstdocid:

DATA ELEMENT NAME: Destination System Document Identifier

DEFINITION: This data field contains a character string identifying a unique name for the PDL section which is assimilated into the master library.

ALLOWABLE VALUES: For government contractors, this element shall be the TMIN number as specified in the contract delivery order. For government agencies, this element shall contain the TMIN as promulgated by the cognizant activity.

EXAMPLE:

dstdocid: SE211-FB-MMA-011/SPS-10B

DATA ELEMENT DEFINITION FOR PDL DATA FILES

DATA ELEMENT LABEL: doccls:

DATA ELEMENT NAME: PDL Data File Security Label

DEFINITION: This record will be a character string stating the highest security level, sensitivity level, or other restrictions on the PDL data file. Multiple values shall require multiple tags.

Extension of this Element:

"ttlcls: clas: " – – Tag for the classification of the PDL file

"ttlcls: rest: " – – Tag for a restriction on the PDL file (e.g., NATO, NOFORN, Proprietary, FOUO, NOCONTRACT, etc.)

"ttlcls: rel: " – – Tag for a country to which PDL file may be released

"ttlcls: code: " – – Tag for a codeword for special access

"ttlcls: digl: " – – Tag for a two-letter diglyph for special access

ALLOWABLE VALUES: Allowable values for this element are:

doccls: clas: "UNCLASSIFIED", "CONFIDENTIAL", "SECRET", "TOP SECRET"

doccls: rest: "NATO", "NOFORN", "Proprietary", "FOUO", "NOCONTRACT" or as specified

doccls: rel: Up to 40 alphabetic characters or as specified by the contract delivery order

doccls: code: Up to 40 characters as specified in the contract delivery order, or as specified by the cognizant activity

doccls: digl: As specified in the contract delivery order, or as specified by the cognizant activity

EXAMPLES:

doccls: clas: SECRET

doccls: rest: NOCONTRACT

doccls: rel: NONE

doccls: code: SPONGE

doccls: digl: RR

DATA ELEMENT DEFINITION FOR PDL DATA FILES

DATA ELEMENT LABEL: notes:

DATA ELEMENT NAME: Notes

DEFINITION: Per MIL-STD-1840A, the notes record is a free-form text record consistent with the number of characters permitted for records in the PDL file. This Specification extends the notes record to indicate whether the PDL file is an Interpress file or a Postscript file. Additional data elements may be added to this record in future revisions to this Specification.

Extension of this Element:

"notes: pdl: " – – Tag to indicate whether file is a Postscript file or an Interpress file. Allowable values are "Postscript" or "Interpress".

"notes: effdate: " – – Tag indicating the effective date of the PDL file.

ALLOWABLE VALUES: "Postscript" or "Interpress"

For data base management purposes, the value of effective date will be specified in the delivery order. The format will be YYYYMMDD.

EXAMPLE:

notes: pdl: Postscript

notes: effdate: 19870319

APPENDIX F: SUMMARY OF CORE ELEMENTS

Elements	Definition	Tag Length	Data Field Length	Page
CGM Data Files				
doccls:	Data File Security Label			C-8
clas:	Classification of CGM File	14	12 a	C-8
code:	Codeword for Special Access to CGM File	14	40 an	C-8
digl:	Two-Letter Diglyph for Special Access to CGM File	14	2 a	C-8
rel:	Country to Which CGM File is Releasable	13	40 a	C-8
rest:	Dissemination Restriction	14	30 an	C-8
dstdocid:	Destination System Document Identifier	10	64 an	C-4
figid:	Figure Identifier	7	30 an	C-6
notes:	Notes			C-9
effdate:	Effective Date	16	8 n	C-9
index:	File Name of Associated Indexing File	14	8 an	C-9
titl:	Figure Title	13	67 an	C-9
srcdocid:	Source System Document Identifier	10	64 an	C-3
srcgph:	Source System Graphics File Name	8	72 an	C-7
txtfilid:	Text File Identifier	10	40 an	C-5
Document Declaration File				
chglvl:	Highest Revision, Change Level, and Date	8	20 an	A-6
dlvacc:	Delivery Accounting			A-12
cdrl:	Contract Deliverable Requirements List Item Number	14	10 an	A-12
cont:	Contract Number	14	40 an	A-12
isu:	UIC for Promulgation Authority	13	6 n	A-12
nsn:	National Stock Number	13	13 an	A-12
part:	Part Sequence Number	14	10 an	A-12
typedesig:	System/Equipment Document Refers to	19	40 an	A-12
vol:	Document Volume Number	13	10 an	A-12
doccls:	Document Security Label			A-16
clas:	Classification of Document	14	12 a	A-16
code:	Codeword for Special Access to Document	14	40 an	A-16
digl:	Two-Letter Diglyph for Special Access to Document	14	2 a	A-16
rel:	Country to Which Document is Releasable	13	40 a	A-16
rest:	Dissemination Restriction	14	30 an	A-16
doctyp:	Document Type	8	248 an	A-17
docttl:	Document Title	8	248 an	A-18
dstdocid:	Destination System Document Identifier	10	64 an	A-9
dstrelid:	Destination System Related Document Identifier			A-10
chg:	Document Change Package	15	64 an	A-10
par:	Parent or Superior Document to this Document	15	64 an	A-10
sibl:	Sibling or "Loosely" Related Document	15	64 an	A-10
spsd:	Document Superseded by this Document	15	64 an	A-10
spsg:	Document Superseding this Document	15	64 an	A-10
sub:	Child or Subordinate Document	15	64 an	A-10
dstsys:	Destination System	8	10 an	A-8

APPENDIX F: SUMMARY OF CORE ELEMENTS - Continued

Elements	Definition	Tag Length	Data Field Length	Page
dteisu:	Date of Issue of the Latest Change to the Document	8	8 n	A-7
dtetrn:	Date of Transfer	8	8 n	A-11
filcnt:	File Count	8	80 an	A-14
srcdocid:	Source System Document Identifier	10	64 an	A-4
srcrelid:	Source System Related Document Identifier			A-5
chg:	Document Change Package	15	64 an	A-5
par:	Parent or Superior Document to this Document	15	64 an	A-5
sibl:	Sibling or "Loosely" Related Document	15	64 an	A-5
spsd:	Document Superseded by this Document	15	64 an	A-5
spsg:	Document Superseding this Document	15	64 an	A-5
sub:	Child or Subordinate Document	15	64 an	A-5
srcsys:	Source System	8	10 an	A-3
ttlcls:	Title Security Label			A-15
clas:	Classification of Document Title	14	12 a	A-15
code:	Codeword for Special Access to Document Title	14	40 an	A-15
digl:	Two-Letter Diglyph for Special Access to Document Title	14	2 a	A-15
rel:	Country to Which Document Title is Releasable	13	40 a	A-15
rest:	Dissemination Restriction	14	30 an	A-15
IGES Data Files				
doccls:	IGES Data File Security Label			C-8
clas:	Classification of IGES File	14	12 a	C-8
code:	Codeword for Special Access to IGES File	14	40 an	C-8
digl:	Two-Letter Diglyph for Special Access to IGES File	14	2 a	C-8
rel:	Country to Which IGES File is Releasable	13	40 a	C-8
rest:	Dissemination Restriction	14	30 an	C-8
dstdocid:	Destination System Document Identifier	10	64 an	C-4
figid:	Figure Identifier	7	30 an	C-6
notes:	Notes			C-9
effdate:	Effective Date	16	8 n	C-9
index:	File Name of Associated Indexing File	14	8 an	C-9
titl:	Figure Title	13	67 an	C-9
srcdocid:	Source System Document Identifier	10	64 an	C-3
srcgph:	Source System Graphics File Name	8	72 an	C-7
txtfilid:	Text File Identifier	10	40 an	C-5
PDL Data Files				
doccls:	PDL Data File Security Label			E-5
clas:	Classification of PDL File	14	12 a	E-5
code:	Codeword for Special Access to PDL File	14	40 an	E-5
digl:	Two-Letter Diglyph for Special Access to PDL File	14	2 a	E-5
rel:	Country to Which PDL File is Releasable	13	40 a	E-5
rest:	Dissemination Restriction	14	30 an	E-5

DEFINITION: This character string is used by the source system to uniquely identify the text file in its

APPENDIX F: SUMMARY OF CORE ELEMENTS - Continued

Elements	Definition	Tag Length	Data Field Length	Page
dstdocid:	Destination System Document Identifier	10	64 an	E-4
notes:	Notes			E-6
effdate:	Effective Date	16	8 n	E-6
pdl:	Indicates Interpress or Postscript File	12	10 a	E-6
srcdocid:	Source System Document Identifier	10	64 an	E-2
txtfilid:	Text File Identifier	10	40 an	E-3
Raster Data Files				
doccls:	Raster Data File Security Label			D-8
clas:	Classification of Raster File	14	12 a	D-8
code:	Codeword for Special Access to Raster File	14	40 an	D-8
digl:	Two-Letter Diglyph for Special Access to Raster File	14	2 a	D-8
rel:	Country to Which Raster File is Releasable	13	40 a	D-8
rest:	Dissemination Restriction	14	30 an	D-8
dstdocid:	Destination System Document Identifier	10	64 an	D-4
figid:	Figure Identifier	7	30 an	D-6
notes:	Notes			D-9 - D-12
blnk:	Intentionally Blank Page	13	3 a	D-9 - D-12
chphdg:	Chapter Heading Appearing on Scanned Page	15	128 an	D-9 - D-12
chpno:	Chapter Number Appearing on Scanned Page	14	15 an	D-9 - D-12
class:	Classification of Page	13	12 a	D-9 - D-12
compr:	Type of Compression CCITT Group 3 or 4	14	8 an	D-9 - D-12
cover:	Indicates Image is Technical Manual Cover	14	3 a	D-9 - D-12
dne:	Indicates Page Does Not Exist	12	3 a	D-9 - D-12
effdate:	Effective Date	16	8 n	D-9 - D-12
figno:	Figure Number and Caption Appearing on Scanned Page	14	128 an	D-9 - D-12
index:	File Name of Associated Indexing File	14	8 an	D-9 - D-12
misftr:	Miscellaneous Footer Information	15	128 an	D-9 - D-12
mishdg:	Miscellaneous Heading Information	15	128 an	D-9 - D-12
mishdr:	Miscellaneous Header Information	15	128 an	D-9 - D-12
para:	Paragraph or Subparagraph Number and Heading	13	128 an	D-9 - D-12
pgno:	Technical Manual Page Number of Scanned Page	13	10 an	D-9 - D-12
promul:	Indicates Image is Promulgation Letter	15	3 a	D-9 - D-12
restr:	Dissemination Restriction	14	30 an	D-9 - D-12
tablno:	Table Number and Caption Appearing on Scanned Page	15	128 an	D-9 - D-12
title:	Indicates Image is Title Page	14	3 a	D-9 - D-12
warn:	Warning Appearing on Scanned Page	13	128 an	D-9 - D-12
pixcnt:	Pixel Count	8	20 n	D-13
pixres:	Orientation and Pixel Resolution	8	20 an	D-14
srcdocid:	Source System Document Identifier	10	64 an	D-3
srcgph:	Source System Graphics File Name	8	72 an	D-7
txtfilid:	Text File Identifier	10	40 an	D-5

APPENDIX F: SUMMARY OF CORE ELEMENTS - Continued

Elements	Definition	Tag Length	Data Field Length	Page
Textual Data Files				
doccls:	Text File Security Label			B-6
clas:	Classification of Text File	14	12 a	B-6
code:	Codeword for Special Access to Text File	14	40 an	B-6
digl:	Two-Letter Diglyph for Special Access to Text File	14	2 a	B-6
rel:	Country to Which Text File is Releasable	13	40 a	B-6
rest:	Dissemination Restriction	14	30 an	B-6
dstdocid:	Destination System Document Identifier	10	64 an	B-5
notes:	Notes			B-7
effdate:	Effective Date	16	8 n	B-7
index:	Index File Name for Associated IGES or Raster File	14	8 n	B-7
instr:	Indicates File Contains Instructions for Change Material	14	3 a	B-7
v28001:	Effective Date of MIL-M-28001 Version Used for SGML-Tagging	15	8 n	B-7
srcdocid:	Source System Document Identifier	10	64 an	B-3
txtfilid:	Text File Identifier	10	40 an	B-4

a = Alpha Data
n = Numeric Data
an = Alphanumeric Data

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INDEX - Continued

INDEX - Continued

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SPACE AND NAVAL WARFARE SYSTEMS COMMAND
WASHINGTON, D. C. 20363 - 5100

COMMANDING OFFICER
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1. DOCUMENT NUMBER	1. DOCUMENT TITLE
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3. NAME OF SUBMITTING ORGANIZATION	4. TYPE OF ORGANIZATION *(Mark One)*
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5. PROBLEM AREAS

a. Paragraph Number and Wording:

b. Recommended Wording:

c. Reason/Rationale for Recommendation:

6. REMARKS

7a. NAME OF SUBMITTER *(Last, First, MI)* - Optional	b. WORK TELEPHONE NUMBER *(Include Area Code)* - Optional
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