



AFCTN Test Report 94-104

AFCTB-ID
94-042



TMSS Parsing Test

Document Type Definition



MIL-M-38784C, Supplement

MAXIMA Corporation



DISA Contract #DCA100-93-D-0065



Quick Short Test Report

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10 May 1994

19960822 134



Prepared for
Electronic Systems Center
Air Force CALS Program Office
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DTIC QUALITY INSPECTED 3

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Document Type Definition
MIL-M-38784C, Supplement
For:
MAXIMA Corporation
DISA Contract #DCA100-93-D-0065

Quick Short Test Report

10 May 1994

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Air Force CALS Test Bed

Notification of Test Results

10 May 1994

This notice documents the results of an Air Force CALS Test Bed (AFCTB) Quick Short Test Report (QSTR) evaluation of data submitted by:

MAXIMA Corporation

Identified as follows:

Title:	MIL-M-38784C Supplement DTD Parsing Test
Program:	DISA
Program Office:	DISA
Contract No.:	DCA100-93-D-0065
QSTR No.:	AFCTB-ID 94-042

Received on the following media: **3.5" Diskette**

The results of the QSTR evaluation are as follows:

MIL-STD-1840A Media Format:	N/A
MIL-D-28000A IGES:	N/A
MIL-M-28001A SGML:	Pass
MIL-R-28002A Raster:	N/A
MIL-D-28003 CGM:	N/A

Formal results with associated disclaimer are documented and available from the AFCTB.

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1. Introduction

1.1 Background

The Department of Defense (DoD) Air Force Continuous Acquisition and Life-cycle Support (CALs) Test Network (AFCTN) is conducting tests of the military standard for the Automated Interchange of Technical Information, MIL-STD-1840A, and its companion suite of military specifications. The AFCTN is a DoD sponsored confederation of voluntary participants from industry and government managed by the Electronic Systems Center (ESC).

The primary objective of the AFCTN is to evaluate the effectiveness of the CALs standards for technical data interchange and to demonstrate the technical capabilities and operational suitability of those standards. Two general categories of tests are performed to evaluate the standards; formal and informal.

Formal tests are large and comprehensive, which follow a written test plan, require specific authorization from the DoD, and may take months to prepare, execute, and report.

Informal tests are quick and short, used by the AFCTN technical staff, to broaden the testing base. They include representative samples of the many systems and applications used by AFCTN participants. They also allow the AFCTN staff to gain feedback from many industry and government interpretations of the standards, to increase the base of participation in the CALs initiative, and respond to the many requests for help that come from participants. Participants take part voluntarily, benefit by receiving an evaluation of their latest implementation (interpretation) of the standards, interact with the AFCTN technical staff, gain experience using the standards, and develop increased confidence in them. The results of informal tests are reported in Quick Short Test Reports (QSTRs) that briefly summarize the standard(s) tested, the hardware and software used, the nature of the test, and the results.

1.2 Purpose

The purpose of this informal test was to analyze the Standard Generalize Markup Language (SGML) syntax of the submitted Document Type Definition (DTD) MIL-M-38784C supplement, developed by the Air Force Technical Manuals Specifications and Standards (TMSS) program, prior to placing the DTD in the Defense Information Systems Agency (DISA) Asset Source for Software Engineering Technology (ASSET) repository.

2. Test Parameters

Test Plan: AFCTB 94-042

Date of Evaluation: 10 May 1994

Evaluator: George Elwood
Air Force CALS Test Bed
DET 2 HQ ESC/AV-2P
4027 Colonel Glenn Hwy
Suite 300
Dayton OH 45431-1672

Data Originator: Kay Hill
MAXIMA Corporation
2372 Lakeview Drive
Beavercreek OH 45431
(513) 427-5888

Data Description: Technical Manual Test
1 DTD

Data Source System:

Text/SGML
SOFTWARE
Unknown

Evaluation Tools Used:

MIL-M-28001 (SGML)
PC 486/50
Exoterica XGMLNormalizer v1.2e3.2
Exoterica Validator v2.2 ex1
SoftQuad Author/Editor v2.1
McAfee & McAdam Sema Mark-it v2.3
Public Domain sgmls v1.1

Standards Tested: MIL-M-28001A

3. 1840A Analysis

3.1 External Packaging

The 3.5" diskette was hand delivered to the Air Force CALS Test Bed (AFCTB), and was not enclosed in any type of container.

The files received by the AFCTB were not MIL-STD-1840A. The files were not named per the standard conventions, as the stated purpose of the evaluation was the basic data structure.

4. SGML Analysis

The AFCTB has several parsers available for evaluating submitted DTD and text files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. These products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor an indication of CALS capability. All operations were performed using the default settings unless specified in the report.

The goal was to configure the DTD under analysis as it would normally be used. However, for this analysis it was necessary to modify the DTD adding the "DOCTYPE doc [" statement to the start and the companion ">" to the end of the DTD under evaluation, as stated in the comments of the DTD. If the parser did not support a formal file pointing to the location of the ISO character sets, this was added.

The DTD under evaluation, MIL-M-38784C, Supplement DTD, calls the basic MIL-M-38784C DTD. MIL-M-38784C Amendment 3 DTD, delivered on the same diskette as the DTD to be evaluated, was used. This DTD was used without change except to insert the location of the ISO character set files.

MIL-M-38784C Supplement DTD

D784CC0.ORG --> D784CB0.A3

The following notes apply to the parsing analysis as indicated in the ensuing paragraphs.

Note 1. Entity parameters defined more than once is a valid SGML construct. The warnings in this analysis do not indicate any problems.

Note 2. The occurrences of warnings "references defined, but not used," appeared because portions of the called DTD, i.e., MIL-M-38784C, were not used. They were not used because the entity definitions of the DTD under analysis altered the execution path in the called DTD. The warnings in this analysis do not indicate any problems.

4.1 Exoterica Validator

The DTD file was evaluated using the *Exoterica Validator* *exl* parser. The basic DTD was modified by placing the concrete syntax file and "`<!DOCTYPE doc ["` at the start, and the `"]>`" at the end. The parser reported 21 errors which related to the missing instance and are not considered errors for this analysis.

The parser reported 66 total warnings of two types. The first type was a parameter entity declared more than once. See Note 1 above.

```
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 1,
      used in "\xgml\9442.dtd", line 1:
      A parameter entity name has been declared more than once.
      The entity is "%frnt".
      <!ENTITY % frnt "(idinfo, warnpage?, chginsst?, lep, verstat?,
chgrec?, co
```

The second type of warnings relate elements defined but not used in any content model. See Note 2 above.

```
<!-- **Warning** in "\xgml\9442.dtd", line 1:
      An element is not allowed in the document instance because it does not
      appear in any accessible content model or it is completely excluded.
      The element is "ABBRSECT".
-->
```

4.2 Exoterica XGML Normalizer

The DTD file was parsed using the Exoterica *XGMLNormalizer* parser. The concrete syntax and "<!DOCTYPE doc [" were added to the start and "]">" to the end of the file. No errors or warnings were issued by this utility.

4.3 Sema Mark-it

The DTD file was evaluated using McAfee & McAdam's *Sema Mark-it* v2.3 parser. The file was modified by adding the concrete syntax and "<!DOCTYPE doc [" to the start, and "]">" to the end of the file. The base line D784CB0.A3 file was used. The only change made to this file was to save it using UNIX format to remove the DOS end of file character. One error was reported and this relates to a missing instance. This is not considered an error for this evaluation.

4.4 Public Domain sgmls

The DTD file was evaluated using the Public Domain *sgmls* parser version 1.1. The file was modified by adding the "<!DOCTYPE doc [" to the start and "]">" to the end of the file. The basic 38784C.A3 file was used as the pointed to file. This file was modified by removing the start and end statements. This DTD remained modified to point to the ISO character sets. Five warnings were reported by the parser. All five warnings were for duplicate definitions. See Note 1 above.

4.5 SoftQuad Author/Editor

The DTD file was evaluated using SoftQuad's *Author/Editor* parser. The DTD was modified to point to the previously parsed basic 38784C.A3 DTD. This file had been set to point to the ISO character set. One error was reported during this operation. This product reported an ambiguous content model in the subfig element of the basic 38784C.DTD. The tag is shown below.

Error in Document Type Declaration at offset 2067 of the input stream, on line 1 of the document: Ambiguous content model.
An instance of element GRAPHIC could simultaneously match two or more tokens in the content model.
Error occurred in the content of parameter entity "m38784c".

```
<!ELEMENT subfig - - ((graphic | macrograph) & figtable? &  
                      legend?) >  
<!ATTLIST subfig %secur; >
```

SoftQuad has identified this as an error in their product which will be corrected in the next release of their software.

5. Conclusions and Recommendations

The file under evaluation, MIL-M-38784C, Supplement DTD conforms to the SGML syntax of ISO Standard 8879, as required by MIL-M-28001B specification.

The errors, warnings, and comments reported by the parsers used in this evaluation do not indicate any syntactical variances, nor indicate any problem that would invalidate the effective application of this DTD.

6. Appendix A - Detailed SGML Analysis

6.1 Exoterica Validator

```
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 1,
      used in "\xgml\9442.dtd", line 1:
      A parameter entity name has been declared more than once.
      The entity is "%frnt".
      <!ENTITY % frnt "(idinfo, warnpage?, chginsst?, lep, verstat?,
chgrec?, co
      ----
-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 1,
      used in "\xgml\9442.dtd", line 1:
      A parameter entity name has been declared more than once.
      The entity is "%idinf".
      <!ENTITY % idinf "(tmidno+, pretmidno*, volnum?, docpartn?,
revnum?, doctyp
      -----
-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 1,
      used in "\xgml\9442.dtd", line 1:
      A parameter entity name has been declared more than once.
      The entity is "%bodyele".
      <!ENTITY % bodyele "(chapter, chapter+, ddchapter?)" >

<!ENTITY % service
      -----
-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 1,
      used in "\xgml\9442.dtd", line 1:
      A parameter entity name has been declared more than once.
      The entity is "%docatt".
      <!ENTITY % docatt
"docid CDATA #REQUIRED
docstat (revision | change | prel
      -----
-->
<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 1,
      used in "\xgml\9442.dtd", line 1:
      A general entity name has been declared more than once.
      The entity is "suppnotice".
      <!ENTITY suppnotice "A suitable reference to this supplement will
be made o
      -----
-->
```

```
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "ABBRSECT".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "ADDRESS".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "APPENDIX".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "CHAPTER".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "CHGDATE".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "CHGHISTDATE".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "CHGINSSHT".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "CHGLIST".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "CHGNUM".
-->
```

```
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "CHGREC".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "CONTENTS".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "CONTRACTNO".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "DATE".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "DATEINC".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "DDCHAPTER".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "DDDESC".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "DDINDEX".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "DDINTRO".
-->
```

```
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "DDLIST".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "DDSHEET".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "DISCL".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "DOC".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "DOCPART".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "ECPNO".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "FOLDOUT".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "FOLDSECT".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "FOREWORD".
-->
```

```
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "GLOSSARY".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "ILLUSLIST".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "INDEX".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "INSERTPG".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "INTERNATLSTD".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "INTRO".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "LEP".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "LRP".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "MAINTLVL".
-->
```

```
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "MFR".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded:
  The element is "ORIGDATE".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "PGNO".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "PRECAUT".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "PREFACE".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "PRETMIDNO".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "RATD".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "REAR".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "REMARKS".
-->
```

```
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "REMOVEPG".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "REVNUM".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "SAFESUM".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "SEAL".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "SECTION".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "SHORTTITLE".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "SYMSECT".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "TABLELIST".
-->
<!-- **Warning** in "\xgml\9442.dtd", line 1:
  An element is not allowed in the document instance because it does not
  appear in any accessible content model or it is completely excluded.
  The element is "TCTOLIST".
-->
```

<!-- **Warning** in "\xgml\9442.dtd", line 1:
An element is not allowed in the document instance because it does not
appear in any accessible content model or it is completely excluded.
The element is "TCTONO".

-->

<!-- **Warning** in "\xgml\9442.dtd", line 1:
An element is not allowed in the document instance because it does not
appear in any accessible content model or it is completely excluded.
The element is "TMIMPREP".

-->

<!-- **Warning** in "\xgml\9442.dtd", line 1:
An element is not allowed in the document instance because it does not
appear in any accessible content model or it is completely excluded.
The element is "TYPENO".

-->

<!-- **Warning** in "\xgml\9442.dtd", line 1:
An element is not allowed in the document instance because it does not
appear in any accessible content model or it is completely excluded.
The element is "VERSTAT".

-->

<!-- **Warning** in "\xgml\9442.dtd", line 1:
An element is not allowed in the document instance because it does not
appear in any accessible content model or it is completely excluded.
The element is "VOLNOT".

-->

<!-- **Warning** in "\xgml\9442.dtd", line 1:
An element is not allowed in the document instance because it does not
appear in any accessible content model or it is completely excluded.
The element is "VOLUME".

-->

<!-- **Warning** in "\xgml\9442.dtd", line 1:
An element is not allowed in the document instance because it does not
appear in any accessible content model or it is completely excluded.
The element is "WARNPAGE".

-->

<<<< ERRORS FROM THIS POINT ON RELATE TO NO DOCUMENT INSTANCE AND ARE NOT CONSIDERED
FOR THIS REPORT >>>>

<!-- **Error** in "\xgml\9442.dtd", line 1:
The document instance must consist of at least one tag or data character.
The following element can start: "DOCSUPP".

-->

<!-- **Error** in "\xgml\9442.dtd", line 1:
The start tag of an element that has one or more required attributes must
not be omitted.
Attributes "SERVICE", "DOCID", and "SUPPTYPE" of element "DOCSUPP" are
REQUIRED.

```
-->
<!-- **Error** in "\xgml\9442.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "FRONT".
-->
<!-- **Error** in "\xgml\9442.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "IDINFO".
-->
<!-- **Error** in "\xgml\9442.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "TMIDNO".
-->
<!-- **Error** in "\xgml\9442.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "DOCNO".
-->
<!-- **Error** in "\xgml\9442.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "DOCTYPE".
-->
<!-- **Error** in "\xgml\9442.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "PRTITLE".
-->
<!-- **Error** in "\xgml\9442.dtd", line 1:
  An end tag that has been declared inomissible ("-") must not be omitted.
  The element is "PRTITLE".
-->
<!-- **Error** in "\xgml\9442.dtd", line 1:
  An element must not end before its content model is completely satisfied.
  The element with unsatisfied content is "PRTITLE".
-->
<!-- **Error** in "\xgml\9442.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "SUPPL".
-->
<!-- **Error** in "\xgml\9442.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "RESPNOT".
```

```
-->
<!-- **Error** in "\xgml\9442.dtd", line 1:
  The start tag of an element that has one or more required attributes must
  not be omitted.
  Attribute "TYPE" of element "DISTRIB" is REQUIRED.
-->
<!-- **Error** in "\xgml\9442.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "AUTHNOT".
-->
<!-- **Error** in "\xgml\9442.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "PUBDATE".
-->
<!-- **Error** in "\xgml\9442.dtd", line 1:
  An end tag that has been declared inomissible ("-") must not be omitted.
  The element is "IDINFO".
-->
<!-- **Error** in "\xgml\9442.dtd", line 1:
  An end tag that has been declared inomissible ("-") must not be omitted.
  The element is "FRONT".
-->
<!-- **Error** in "\xgml\9442.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "BODY".
-->
<!-- **Error** in "\xgml\9442.dtd", line 1:
  A start tag with a start tag minimization of minus ("-") must not be
  omitted.
  The element is "PARA".
-->
<!-- **Error** in "\xgml\9442.dtd", line 1:
  An end tag that has been declared inomissible ("-") must not be omitted.
  The element is "BODY".
-->
<!-- **Error** in "\xgml\9442.dtd", line 1:
  An end tag that has been declared inomissible ("-") must not be omitted.
  The element is "DOCSUPP".
-->
<!-- 21 errors and 66 warnings reported. -->
```

6.2 Exoterica XGMLNormalizer Parser

No reported errors or warnings.

6.3 Public Domain sgmls Log

sgmls: Warning at c:\sgmlpub\784.dtd, line 110 in declaration parameter 4:
Duplicate specification occurred for "%frnt"; duplicate ignored
sgmls: Warning at c:\sgmlpub\784.dtd, line 116 in declaration parameter 4:
Duplicate specification occurred for "%idinf"; duplicate ignored
sgmls: Warning at c:\sgmlpub\784.dtd, line 166 in declaration parameter 4:
Duplicate specification occurred for "%bodyele"; duplicate ignored
sgmls: Warning at c:\sgmlpub\784.dtd, line 173 in declaration parameter 4:
Duplicate specification occurred for "%docatt"; duplicate ignored
sgmls: Warning at c:\sgmlpub\784.dtd, line 300 in declaration parameter 3:
Duplicate specification occurred for "suppnotice"; duplicate ignored
TOTALCAP 102292
ENTCAP 12832
ENTCHCAP 10697
ELEMCAP 4832
GRPCAP 24768
EXGRPCAP 768
EXNMCAP 1248
ATTCAP 30144
ATTCHCAP 808
AVGRPCAP 15936
NOTCAP 96
NOTCHCAP 163
IDCAP 0
IDREFCAP 0
MAPCAP 0
LKSETCAP 0
LKNMCP 0

6.4 Sema Mark-it Log

```
<!--*** file:C:\XGML\9442.DTD line:147 pos:4427  
Document entity ended illegally  
(or illegal end of entity in the main document)-->
```

6.5 SoftQuad Author/Editor Log

Error in Document Type Declaration at offset 2067 of the input stream,
on line 1 of the document: Ambiguous content model.
An instance of element GRAPHIC could simultaneously match two or more
tokens in the content model.
Error occurred in the content of parameter entity "m38784c".

```
<!ELEMENT subfig      - - ((graphic | macrograph) & figtable? &  
                           legend?) >  
<!ATTLIST subfig      %secur; >
```