



# 中华人民共和国国家标准

GB/T 24463.3—2009

## 交互式电子技术手册 第3部分：公共源数据库要求

Interactive electronic technical manuals—  
Part 3: Common source database requirement

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## 前 言

GB/T 24463—2009《交互式电子技术手册》分为以下三个部分：

- 第 1 部分：互操作性体系结构；
- 第 2 部分：用户界面与功能要求；
- 第 3 部分：公共源数据库要求。

本部分为 GB/T 24463—2009 的第 3 部分。

本部分的附录 A、附录 B 是规范性附录。

本部分由中国标准化研究院提出并归口。

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# 引 言

随着科学技术的发展,出现了许多大型复杂的高技术装备。为了解决这些装备使用纸质技术手册所存在的费用高、体积与重量大、交付与传递的及时差、易污染、使用不方便等诸多弊端而不能适应装备使用与维修要求的问题,自 20 世纪 80 年代中期以来,美国及世界各发达国家在推行 CALS(目前, CALS 称持续采办与寿命周期保障)信息化策略时,就将交互式电子技术手册(IETM)列为一项重要的关键技术加以推广。随着 IETM 技术的发展与广泛应用,已愈来愈显示出它在提高装备使用、维修、故障诊断和人员培训的效率与效益方面的巨大优越性,因此,目前 IETM 已成为包括我国在内的世界各国的军用与民用装备制造业信息化的一项大力推广的技术,其应用前景十分广阔。

本部分规定了交互式电子技术手册源数据采用公共源数据库的方式进行存储与管理。在公共源数据库方式下,本部分对数据模块,数据模块需求列表模块和出版物模块等内容进行了规范,明确了数据模块代码,插图代码,出版物代码的代码结构和各类数据模块的 DTD 进行数据模块管理等内容。

## 交互式电子技术手册

### 第3部分:公共源数据库要求

#### 1 范围

GB/T 24463 的本部分规定了构建交互式电子技术手册公共源数据库的要求,提出了数据模块存储和管理的方式。

本部分适用于交互式电子技术手册技术信息的数据模块化处理。

本部分包含下述内容:

- 数据模块;
- 数据模块需求列表;
- 插图;
- 出版物模块;
- 数据模块代码编制要求;
- 插图代码编制要求;
- 出版物模块代码编制要求。

#### 2 规范性引用文件

下列文件中的条款通过 GB/T 24463 的本部分的引用而成为本部分的条款。凡是注日期的引用文件,其随后所有的修改单(不包括勘误的内容)或修订版均不适用于本部分,然而,鼓励根据本部分达成协议的各方研究是否可使用这些文件的最新版本。凡是不注日期的引用文件,其最新版本适用于本部分。

GB/T 15121.3 信息技术 计算机图形 存储和传送图片描述信息的元文卷 第三部分:二进制代码(GB/T 15121.3—1996, idt ISO/IEC 8632-3:1992)

GB/T 18793 信息技术 可扩展置标语言(XML)1.0

#### 3 术语、定义和缩略语

##### 3.1 术语和定义

下列术语和定义适用于 GB/T 24463 的本部分。

###### 3.1.1

**公共源数据库** common source database; CSDB

交互式电子技术手册的所有信息对象的存储与管理方式。

###### 3.1.2

**数据模块** data module

技术手册中最小的、独立的信息单元。数据模块包括文本、图表及其他类型的数据,并且具有通用的结构。

###### 3.1.3

**数据模块代码** data module code

数据模块的标准化和结构化的定义,是数据模块的唯一标识。

#### 3.1.4

##### 数据模块需求列表 data module requirement list

标识一个项目所需要的数据模块的工具,支持项目的计划、报告、生产和配置控制。

#### 3.1.5

##### 出版物模块 publication module

满足出版需求的数据模块的集合,是对数据模块对象进行组织的数据单元。

#### 3.2 缩略语

下列缩略语适用于 GB/T 24463 的本部分。

DTD document type definition 文档类型定义

DMC data module code 数据模块代码

DMRL data module requirement list 数据模块需求列表

EIAC end item acronym code 成品缩写码

PM publication module 出版物模块

UOC usable on code 最终产品使用码

#### 4 通用要求

##### 4.1 概述

交互式电子技术手册的数据存储在公共源数据库(CSDB)中,CSDB 的中心内容是数据模块。数据模块(DM)是交互式电子技术手册中最小的、独立的信息单元。数据模块包含文本、表格和其他可解析的数据,插图以及其他格式的数据不直接包含在数据模块中,而通过引用机制进行调用。数据模块的唯一标识是数据模块代码和出版号。

##### 4.2 数据交换要求

按照本部分规定提交的交互式电子技术手册的公共源数据库应按照第 5 章的内容进行构建和标记,并且应符合 GB/T 18793 的规定。

##### 4.3 数据模块结构和数据元素命名要求

数据模块应按附录 A 和附录 B 中描述的数据字典和 DTD 进行构建和标记。除非有另外说明,数据模块的类型应与本部分 5.2.2 保持一致。当编辑实例时,创作者应选择适当的 DTD 中的元素名称。

##### 4.4 数据的可维护性

数据模块的更新可以在数据模块内进行并标记。交互式电子技术手册的更新是根据项目要求而改变,更新内容应在交互式电子技术手册的前言中进行说明。

#### 5 公共源数据库

##### 5.1 概述

公共源数据库中的数据可以独立存在,也可以采用数据库结构进行管理。通过数据库管理系统产生的数据必须与本部分的要求相一致。描述产品的信息以离散的形式生成并存储在公共源数据库里。公共源数据库包含数据模块、与数据模块相关的插图、模块需求列表和出版物模块等内容。

##### 5.2 数据模块

数据模块的结构分为两个部分:一是标识和状态部分,二是内容部分。在本部分,(M)表示元素为强制使用,(O)表示元素为可选使用,未标记的元素可根据项目选用。

###### 5.2.1 标识和状态部分

标识和状态部分的标记元素为<idstatus>(M)。

###### 5.2.1.1 标识

标识部分是强制性的,标记元素是<dmaddres>(M),包括数据模块代码<dmc>(M)、数据模块标题

<dmtitle>(M)、发布号<issno>(M)和发布日期<issdate>(M)。

5.2.1.1.1 数据模块代码

数据模块代码是数据模块标识的一部分,标记元素是<dmc>,所有数据模块都分配一个数据模块代码。具体的代码结构见 6.1。

5.2.1.1.2 数据模块标题

数据模块标题是数据模块代码中产品名称部分。标记元素是<dmtitle>。标题分为技术名称和信息名称。

5.2.1.1.2.1 技术名称

技术名称是产品系统、子系统名称的术语描述。标记元素是<techname>(M)。

5.2.1.1.2.2 信息名称

信息名称是对产品执行某项保障活动的术语描述。标记元素是<infoname>(O)。

5.2.1.1.3 发布号

发布号的标记元素是<issno>。发布号有以下 3 个属性:

- a) 发布号。每个得到发布认可的数据模块须分配一个有连续性的发布号。发布号也是数据模块唯一标识的一部分。一般情况下,初始发布号为“001”,数据模块再发布一次,数值便增加一个数值。
- b) 发布类型。发布类型由属性 type 表示,有 4 个值,分别为:
  - “new”表示数据模块初始发布号应总是“001”,并发布类型值为“new”值。
  - “deleted”表示数据模块的删除并非在公共源数据库中删除,只是通过把发布类型值设置为“deleted”来表示数据模块已删除。
  - “changed”数据模块进行了部分的更改,而且进行了标记,则将发布类型的属性设置为 changed。
  - “revised”数据模块进行了全部的更改,在数据模块中也没有标记更改,则把发布类型值设为“revised”。
- c) 工作编号。没有发布的数据模块处理于编辑状态时的编号。它可以在草案中使用。工作编号的初值应设为“01”,数据模块每更改一次便增加一个数值。

5.2.1.1.4 发布日期

数据模块的每次发布,无论是最初的编写、修订或是更新,都应以 YYYY-MM-DD 的格式,作为日期的属性分配给发布日期的标记元素<issdate>。

5.2.1.2 状态部分

数据模块的状态部分提供了与数据模块状态相关的信息。状态部分的标记元素是<status>(M)。它包含:

- 密级<security>(M);
- 数据模块约束<datarest>;
- 解释单位<rpc>(M);
- 编写单位<orig>(M);
- 适用性<applic>(M);
- 质量保证<qa>(M);
- 更新原因<rfu>(O)。

5.2.1.2.1 密级

数据模块和插图的密级的标记元素是<security>。采用属性值来表示其等级,等级分为绝密、机密、秘密和公开,其属性值由工程项目进行定义。

#### 5.2.1.2.2 数据约束

数据约束是数据模块使用时的相关说明。数据模块约束的标记元素是<datarest>。数据约束的子元素有：

- 指南<instruct>(M)；
- 版权<copyright>(O)。

##### 5.2.1.2.2.1 指南

指南主要包括项目中所使用数据模块如何处理密级、解除密级以及使用数据模块的一些限制性要求。

##### 5.2.1.2.2.2 版权

版权的标记元素是<copyright>。<holder>是版权持有人的名字,<firstyear>是版权生效年,<last-year>是版权终止年。<registeredwith>是注册版权机构的名称,<govtlicense>是版权证号,是使用版权的法律许可信息。

##### 5.2.1.2.3 解释单位

解释单位是能够对数据模块内容负责的单位或机构。解释单位的标记元素为<rpc>。

##### 5.2.1.2.4 编写单位

编写单位是数据模块的编写或创作单位。编写单位的标记元素为<orig>。

##### 5.2.1.2.5 适用性

适用性的标记元素为<applic>。适用性是对一个数据模块所适用产品的基本描述。数据模块的适用性由编写人员指定,或在数据模块的编写和更新期间由创作系统生成。

适用性元素包括下列子元素：

- 产品类型<type>(O)用于描述产品的类型；
- 产品型号<model>(M)用于描述产品的型号。

产品型号<model>包括下列元素：

- 型别<version>(O)用于描述产品的型别；
- 制造商<mfc>(O)用于描述制造商的名字；
- 维修级别<level>用于描述数据模块使用的维修级别；

配置<config>(O)用于描述数据模块的配置信息。它包含产品修改状态的信息和任何服务公告信息。

配置<config>包括下列元素：

- 修改<mod>(O)用于描述产品是否处于修改状态。
- 修改标题<modtitle>(O)用于描述修改的内容。

服务通告<sb>(O)包括被修订的数据模块或 IETM/技术出版物的信息,更改的数据模块包括数据模块中的<avee>、发布号<issno>、数据模块标题<dmttitle>。更改的出版物包括出版物代码<pubcode>、出版物标题<pubtitle>、出版物日期<pubdate>等元素。

##### 5.2.1.2.6 质量保证

质量保证的标记元素为<qa>。用于详细说明项目中数据模块的质量保证进程。数据模块分为未经确认的或已确认的质量保证状态。

“未确认的”指编辑的数据模块还没有得到相关单位的审核。元素<unverif>用于描述未确认的状态。

“确认”指数据模块得到相关单位的审核。元素<firstver>和<secver>,分别表示数据模块进行了首次或第二次审核确认。

##### 5.2.1.2.7 更新原因

更新原因元素<rfu>是对数据模块更新原因的简要说明。可用在技术手册的发布或研制阶段。



## 5.2.2 数据模块内容部分

### 5.2.2.1 数据模块内容部分的通用部分

大部分数据模块中包含着以下同样的元素。下列元素在数据模块内容部分的位置参照 DTD 结构。

#### 5.2.2.1.1 适用性

整个数据模块的适用性<applic>信息放在识别和状态部分<idstatus>中。但常常有必要指出数据模块内容部分的差别,因此,在内容的部分需要进一步的描述细节,而采用本元素。

#### 5.2.2.1.2 引用

两种引用在标准中是有效的:

- 引用<refs>外部引用(如链接到其他数据模块);
- 交叉引用<xref>内部引用(如与数据模块的其他位置)。

#### 5.2.2.1.3 警告、注意和说明

警告<warning>、注意<caution>和说明<note>适用于所有的数据模块。警告和注意直接置于相关段落的前面。说明即可以放在相关的段落前面,也可以放在之后。

- 警告<warning>用于提示能引起人员伤害或死亡的危险信息;
- 注意<caution>用于提示会引起产品损坏的危险信息;
- 说明<note>用于提示附加的信息,该信息对用户是非常有用的。

#### 5.2.2.1.4 插图

插图包括图本身和图标记线。插图<figure>有强制属性 boardno。对属性 boardno 进行赋值,其值取自插图代码 ICN,来定位插图。插图<figure>包括子元素<graphic>,在子元素图<graphic>中包含热点<hotspot>。

插图代码(ICN)用于图和插图的生成。ICN 的代码的编制代码规则见 6.2。

#### 5.2.2.1.5 准备工作

准备工作元素<prelreqs>用于包含实施活动时的所有初步要求。包括以下元素:产品管理数据<pmd>、所需条件<reqconds>、所需人员<reqpers>、保障设备<supequip>、供应品<supplies>、备品集合<spares>、安全要求<safecond>。

### 5.2.2.2 数据模块内容部分的专用部分

#### 5.2.2.2.1 描述信息

描述信息是使维修人员进一步理解产品系统、子系统和单元的结构、功能、操作和控制的技术数据。它应包括相关系统的标识、位置以及重要零部件的综述。描述信息还应包括产品或电路图的示意图。示意图应用尽量详细地描述来补充故障隔离和维修人员对系统操作的理解。

描述信息的 DTD 见附录 B 中的 descript.dtd 文档。描述信息<descript>的元素标记见附录 A 数据字典。

#### 5.2.2.2.2 程序信息

程序信息是使维修人员对产品及安装在上面的部件进行维修时所需要的技术信息,它常包括但不限于下列信息:

- 连接/断开测试设备和动力源;
- 使用任何专用工具和保障设备;
- 维修和保养产品及其系统/组件;
- 维修活动规程的执行;
- 排除故障;
- 在最短的时间内拆卸和安装相应的系统/组件。

程序信息的 DTD 见附录 B 中的 procedural.dtd 文档。程序信息<proced>的元素标记见附录 A 数

据字典。

#### 5.2.2.2.3 故障信息

故障信息是进行故障隔离时所需要技术信息的描述。故障隔离信息应包括下列信息：

- 隔离的、查明的和观察到的故障清单；
- 故障隔离程序、文本和图表；
- 故障隔离任务的保障数据；
- 故障代码索引(从信息中获取)；
- 维修信息索引(从信息中获取)；
- 检查、核对或测试；
- 修复行为；
- 故障隔离程序。

故障信息来源于：

- 产品监视系统；
- 使用和维修人员；
- 任务完成后检查的结果。

故障信息的 DTD 见附录 B 中的 `fault.dtd` 文档。故障信息<fault>的元素标记见附录 A 数据字典。

#### 5.2.2.2.4 维修计划信息

维修计划信息是保证技工进行产品的维修,特别是关于预防性检查和维修(包括计划和非计划)时的必要要求。维修计划信息将包括下面的内容：

- 时限；
- 维修/检测任务清单；
- 计划和非计划检查；
- 验收和功能性检测。

维修计划信息的 DTD 见附录 B 中的 `maintenance plane.dtd` 文档。维修计划信息<schedule>的元素标记见附录 A 数据字典。

#### 5.2.2.2.5 人员信息

人员信息是描述操作/维修人员为完成在其岗位要求而进行的各种活动所需要的技术信息。

人员信息的 DTD 见附录 B 中的 `crew.dtd` 文档。人员信息<crew>的元素标记见附录 A 数据字典。

#### 5.2.2.2.6 零部件信息

零部件信息是用来获取和描述零部件列表和有插图零部件的技术数据。

零部件信息的 DTD 见附录 B 中的 `part.dtd` 文档。零部件信息<part>的元素标记见附录 A 数据字典。

#### 5.2.2.2.7 接线信息

接线信息是指由熟练工人使用的描述电子路线的图表,通过标准的电路图能完成电子系统的故障隔离和维修。

接线信息 DTD 的使用不是强制性的。它也可能以表格的形式来准备接线出版物和通过描述性的 DTD 来准备接线的线路图。

接线信息的 DTD 见附录 B 中的 `wrngdata.dtd` 文档。接线信息的元素标记见附录 A 数据字典。

#### 5.2.2.2.8 过程数据模块

过程数据模块是对数据模块间逻辑关系的描述。它包括按顺序和以 if-then-else 分支或循环的方式在数据模块之间进行切换。顺序结构用于不要求变更数据模块自身的数据模块,而且这些数据模块可以在许多顺序模块中进行重用。过程数据模块在静态变量的基础上对数据模块进行过滤,它可以按用户或其他资源的要求抽出状态信息进行分支或过滤。

5.3 插图

插图必须简单、明了,并以适用的格式或样式显示给用户,插图必须能够准确提供意欲完成工作的技术信息。插图必须根据文字和数据模块的其他信息一起进行显示,以使用户接受到最大量的信息,本部分插图在计算机中存储的数据格式应符合 GB/T 15121.3 的规定。

5.4 数据模块需求列表

数据模块需求列表(DMRL)是一个明确工程项目中所需要数据模块的工具。在工作共享环境中,实施 DMRL 是为了实现技术手册生产的计划、报告、生产和配置控制等管理。

一个 DMRL 包括如下的元素:DMRL 标识码、DMRL 状态、DMRL 条目。

5.4.1 数据模块需求状态

数据模块需求状态包括以下元素:

- 发布号<issno>;
- 发布日期<issdate>;
- 密级<security>;
- 数据模块约束<datarest>;
- 数据模块引用<dmlref>;
- 注释<remarks>。

5.4.2 数据模块需求条目

每个数据模块需求条目有属性“new”、“changed”“deleted”,并包括下列元素:

- 数据模块地址<addresdm>,其包括的子元素见数据模块 DM;
- 密级<security>;
- 解释单位<rpc>;
- 注释<Remarks>。

5.5 出版物模块

出版物模块包括下列内容的一个或多个引用:

- 数据模块;
- 图表数据模块;
- 出版物模块。

6 数据管理

6.1 数据模块代码

数据模块代码(DMC)是一个数据模块的标准化和结构化的定义。它包括在数据模块的标识内。DMC 是数据模块唯一标识的一部分,用于 CSDB 中对数据模块的管理和在电子条件下对数据模块的寻址或转换。

6.1.1 数据模块代码结构

DMC 由两部分组成,分别是硬件标记部分和信息类型部分。硬件部分主要描述产品的特性内容的代码,信息类型主要是产品使用的技术信息的代码。在一个 CSDB 中,数据模块代码的长度应当保持固定,如图 1。

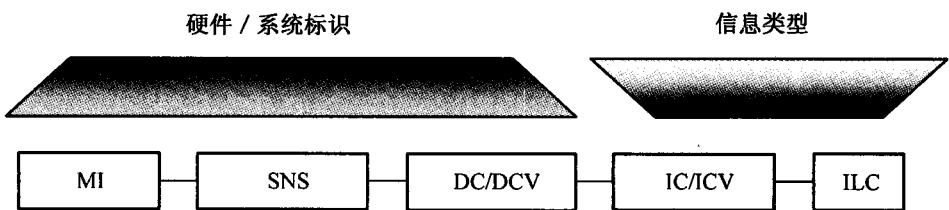


图 1 数据模块代码结构

本部分采用的数据模块代码采用 17~37 位数字表示。代码可以根据项目的情况改变长度,但需要符合本部分给出的细目结构。以 17 位数字为例进行代码编制代码的说明,如图 2。

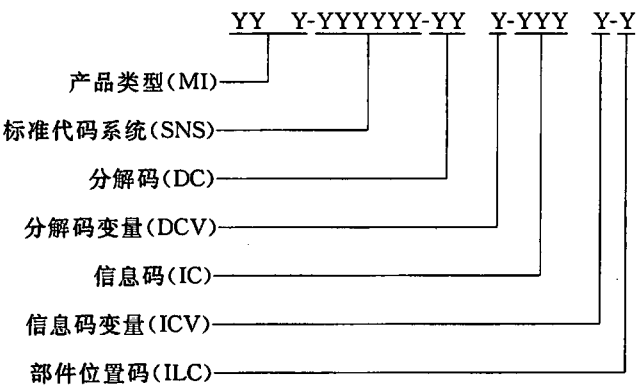


图 2 数据模块代码编制说明

代码中“Y”字符范围:“0”...“9”,“A”...“Z”(“O”和“I”应避免使用)。

“硬件标识”和“信息类型”两个 DMC 部分划分的细目分别在表 1 和表 2 中给出。

表 1 硬件标识

| 组成部分        | 长 度         |
|-------------|-------------|
| 产品类型(MI)    | 3~14 位字符    |
| 标准编码系统(SNS) | 6~13 位字符    |
| 分解码(DC)     | 2 位数字字符     |
| 分解码变量(DCV)  | 1 或 3 位数字字符 |

表 2 信息类型

| 组成部分       | 长 度     |
|------------|---------|
| 信息码(IC)    | 3 位数字字符 |
| 信息码变量(ICV) | 1 位数字字符 |
| 部件位置码(ILC) | 1 位数字字符 |

6.1.2 产品类型

产品类型(MI)是对产品的名称、型号的描述。当 MI 与后勤保障分析记录保持一致时,MI 是最终产品缩写码(EIAC)和最终产品使用码(UOC)的叠加。标记元素:⟨avee⟩。

产品类型(MI)代码在 DMC 中的位置如式中带下划线黑体所示:

**YY** **Y-YYYYYY-YYY-YYYY-Y**

6.1.3 标准编号系统

标准编码系统(SNS)是不仅限于描述产品系统的功能,也可以对产品的物理项目进行分类描述。对于产品的维修任务也可以采用 SNS 进行描述。标记元素:⟨system⟩。

标准编码系统(SNS)在 DMC 中的位置如式中带下划线黑体所示:

**YY** **Y-**YYYYYY**-YYY-YYYY-Y**

6.1.4 分解代码及分解码变量

分解代码(DC)是组件在产品进行维修活动中的分解层次,是产品维修活动中连续分解的编号。根据维修活动的先后,对数据模块中编有号码的组件进行次序分配而产生的代码。标记元素:⟨discode⟩。

分解码变量(DCV)是同一产品的替代操作过程的标记。标记元素为⟨discodev⟩。

分解代码(DC)和分解码变量(DCV)在 DMC 中的位置如式中带下划线黑体所示:

**YY** **Y-YYYYYY-**YYY**-YYYY-Y**

6.1.5 信息码及信息码变量

信息码(IC)用于指定在一个数据模块中的信息类型。标记元素:⟨incode⟩。

信息码变量(ICV)是指信息类型中的其他信息,标记元素:〈incdev〉。  
在 DMC 中信息码(IC)和信息码变量(ICV) 在 DMC 中的位置如式中带下划线黑体所示:  
YY Y-YYYYYY-YYY-**YYYY-Y**

6.1.6 位置码

位置码(ILC)是识别产品的维修活动在哪里进行或信息在哪里应用的代码。标记元素:〈itemloc〉。  
一般情况下,位置码的取值为 A、B、C、D、T,其意义为:  
——A 在产品上完成;  
——B 在产品拆除部件上完成;  
——C 在车间完成;  
——D 与 A、B、C 三种情况都相关的信息;  
——T 与训练数据相关的信息。  
产品位置码(ILC)在 DMC 中的位置如式中带下划线黑体字符所示:  
YY-Y-YY-YY-YY-YYY-**YYYY-Y**

6.2 插图及插图代码

插图用来增强文本的表达,插图应与相关文字一起表达技术信息的含意。插图不放置在数据模块中,但是可以被数据模块引用。每个插图应该用一个插图代码(ICN)进行标识。在 CSDB 中,ICN 是唯一的标识,通过 ICN 可以建立一个或多个数据模块的关联。  
ICN 由 9 个元素组成,结构如图 3。

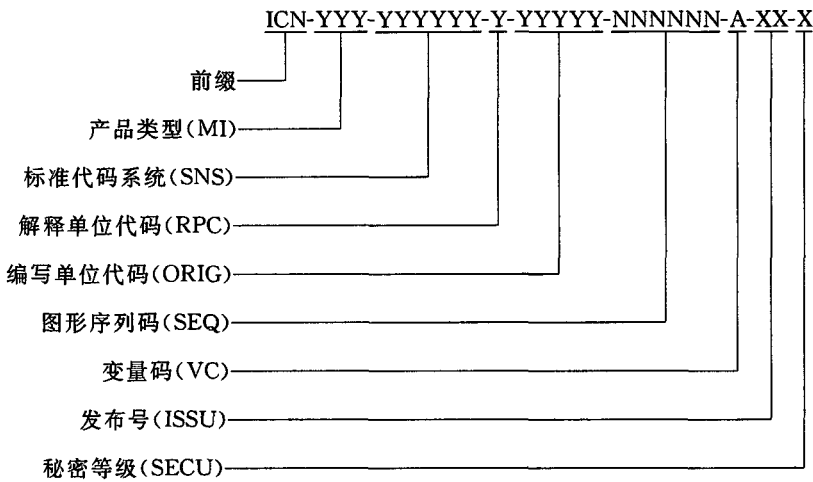


图 3 插图代码说明

图中 ICN 为插图代码的特有的前缀,其他代码名称的解释见本部分的相关章条。

6.3 数据模块需求列表标识码

根据本部分生成的数据模块需求列表应给出一个 DMRL 标识码(DMLC)。其标记元素为〈dmlc〉。  
代码方式如下式所示:  
YYY-YYYYYY-A-XXXX-NNN  
标识码元素如表 3。

表 3 DMRL 需求列表

| DMLC 元素 | 长 度      |
|---------|----------|
| 产品类型    | 3~14 位字符 |
| 生产厂商    | 5 位字符    |
| DMRL 类型 | 1 位英文字母  |

表 3 (续)

| DMLC 元素 | 长 度     |
|---------|---------|
| 发布年限    | 4 位字符   |
| 每年的序列号  | 3 位有序字符 |

6.4 出版物模块代码

出版物模块代码(PMC)是一个 IETM/出版物模块或一个最终发布出版物/IETM 的标准和结构标识。它是出版物模块的状态标记元素。PMC 是出版物模块的唯一标识部分。PMC 用于管理 CSDB 中的出版物模块/IETM,用于在一个 IETM 环境中获取它们。PMC 作为一个应用出版物列表的条目及出版物引用。

代码方式如下式所示:

YY-YYYYY-XXXXX-NN。

PMC 由 14 位字母数字字符组成,其构成如表 4。标记元素:<pmc>。

表 4 出版物模块代码

| PMC 分解 | 长 度      |
|--------|----------|
| 模块标识码  | 2~14 位字符 |
| 发布单位   | 5 位数字字符  |
| 出版物号   | 5 位数字字符  |
| 卷号     | 2 位数字字符  |

附 录 A  
(规范性附录)  
元素名称字典

元素名称字典是对元素的解释,表 A. 1 列出了公共源数据库可能用到的元素的中英文名称及其描述。

表 A. 1 元素名称字典

| 英文名称      | 英文描述                                    | 中文名称      | 说 明   |
|-----------|---|-----------|---|
| abbrev    | LRU short designation                   | LRU 的简写   | 外场可更换单元的简写名称  |
| accpnl    | Access Panel                            | 通道面板      | 接触到部件的途径说明的面板   |
| acrodef   | acronym definition                      | 缩写词解释     | 对首字母缩写词的全文解释  |
| acronym   | Acronym Term and Definition             | 缩写词       | 缩写词包括缩写词解释和简写词两元素                                       |
| acroterm  | Acronym Term                            | 简写词       |   |
| acrw      | All Crew Content                        | 人员信息      |   |
| action    | Action to be performed                  | 动作        | 完成某一种维修活动的动作  |
| add       |   | 和运算       | 表达式中的和运算  |
| afi       | All Fault Isolation                     | 故障隔离      |   |
| afiref    | All Fault Isolation Reference           | 故障隔离引用    |   |
| afr       | All Fault Reporting                     | 故障报告      |   |
| age       | Aircraft Ground Equipment               | 地面设备      | 飞机的地面保障设备   |
| airpwr    | indicate the status of any air supplies | 气动力       | 气动力的情况  |
| and       | and                                     | 与运算       |   |
| answer    | answer                                  | 答案        |   |
| applic    | Applicability                           | 适用性       | 适用条件的描述   |
| asp       | Attaching, Storage or shipping Part     | 连接,存储或者运输 | 连接,存储或者运输的描述  |
| asrequir  | As Required                             | 要求        | asrequir 是为了在界面上产生一个“要求”的提示图标                           |
| assertion | assertion                               | 声明        |   |
| avee      | Air Vehicle, Engines, Equipment         | 飞机机载设备    |   |
| avehcfg   | All Vehicle Required Conditions         | 要求条件      | 是 PMD 中的一个元素,PMD 用来包括计划或任务准备的基本的必要的信息。AVEHCFG 表示产品要求的条件 |
| boolean   | boolean                                 | 布尔函数      | 表达式中的布尔运算   |
| can       | Change Authority Number                 | 改变授权号     | 改变授权号   |
| capbody   | Caption Group Body                      | 标示体       | 指示牌的全部称呼  |
| capentry  | Caption Group Entry                     | 标示牌条目     | 条目(作为多个标签的容器)   |
| capgrp    | Caption Group                           | 标示组       | 由多个标签组成的表盘  |
| capline   | Caption line of text                    | 标示        | 标示盘内标示的具体内容(常用缩略词)                                      |

表 A.1 (续)

| 英文名称      | 英文描述  | 中文名称      | 说 明  |
|-----------|---|-----------|--|
| caprow    | Row of Captions   | 标示行       | 标示盘中行的参数   |
| captext   | Caption Text [not within a caption box]   | 标示文本      | 不包括外框的标题文本(常用在标示组里,有更改属性)                              |
| caption   | caption   | 单一标示      | 表盘上的标示(是多种具体内容的容器,有自身的属性,指的是警报器上的一些指示符号,caption 指的是一行) |
| case      | case  | 事例        |  |
| cat       | Category  | 种类        | 零部件的类别   |
| caution   | caution   | 注意        | 一种警告的方式  |
| cbs       |   | 零部件位置数据   |  |
| challeng  | challenge   | 询问        |  |
| challrsp  | challenge and response  | 询问和回答     |  |
| change    | Change Marker   | 更改标记      |  |
| chapnum   |   | 系统代码      | SNS 代码中的第一组码   |
| choice    | Choice in a Selection List  | 选择        |  |
| cide      |   | 组件标识码     | AGE 中的 SNS 的第三组码                                       |
| closetxt  | Close Text  | 结束        | 程序中的结束文字   |
| closeup   | Close up procedures   | 停止程序      |  |
| cmk       | Calibration MarKer  | 刻度标记      |  |
| colspec   | Column Specification  | 列定义       | 列的各种参数设定   |
| concat    | concatenate   | 字符串加运算    | 字符串加运算   |
| condit    | If,Elseif & Case Condition  | 条件        | If,Elseif & Case 等条件                                   |
| config    | Configuration   | 配置        | 包括两种状态:一是修改状态,二是使用状态                                   |
| content   | Content Structure   | 模块内容      |  |
| copyright | copyright   | 版权        |  |
| crew      | identify the crew/operator responsible for carrying out an action. It contains occurrences of the element <crewmem> to identify individual crew/operator member | 工作队       | 负责执行某一任务时的各种职责   |
| crewmem   | individual crew/operator member   | 成员        | 某一固定人员的职责  |
| csn       | Catalog Sequence Number   | 目录序列号     |  |
| csnref    | Reference to CSN  | 引用产品分类号   | 引用产品分类号  |
| ctl       | Category 1 conTainer Location   | 种类 1 容器地址 |  |
| data      | Range Of Data To Be Set For Testing   | 数据        | 检测设置的数据范围  |
| datacond  | Specific Conditions   | 模块密级变化条件  | 当不同密级的模块相组合使用时,要采用较高级别的密级                              |



表 A.1 (续)

| 英文名称        | 英文描述   | 中文名称    | 说 明                                 |
|-------------|--|---------|-------------------------------------|
| datarest    | Data Restrictions  | 模块约束    | 处理数据模块时要满足的条件(如发行、解密、销毁、版权等活动的条件)   |
| def         | Definition   | 定义      | 在列表中对术语的解释                          |
| defined     | 'True' if variable exists in State Information and does not have a NIL value | 界定运算    | 一元运算中的假设条件                          |
| definspec   | Inspection Definition  | 定义检测    |                                     |
| deflist     | Definition List  | 词汇列表    | 对模块中专用词汇的解释                         |
| deftask     | Task Definition  | 任务定义    |                                     |
| descacrw    | describe all crew  | 人员描述信息  |                                     |
| describe    | Fault description  | 描述      | 有关检测方式、故障等的描述                       |
| descript    | Descriptive Content  | 描述信息    |                                     |
| detect      | Fault detection  | 故障检测    |                                     |
| dfault      | Detected Fault   | 检测到的故障  |                                     |
| dfi         | Description Of Location  | 地址描述    |                                     |
| dfp         | Description Of Part  | 零部件描述   |                                     |
| diagnost    | Fault Diagnostic   | 故障诊断    |                                     |
| dialog      | Dialog Element   | 对话框     |                                     |
| dialog-alt  | Dialog Alternatives  | 备选对话框   |                                     |
| disclose    | Intended Use or Disclosure   | 解密要求    | 模块解密的要求                             |
| discode     | Disassembly Code   | 分解码     | 组件的分解                               |
| discodev    | Disassembly Code Variant   | 分解码变量   | 零部件分解有微小的变化。可使用后勤保障分析中的备用后勤控制码(ALC) |
| disjoint    | disjoint   | 不相交运算   | 两个集合不相交的运算                          |
| disolate    | Fault Location   | 故障定位    |                                     |
| distrib     | Distribution Requirements  | 发行要求    |                                     |
| divide      |  | 除运算     |                                     |
| dmaddres    | Data Module Address  | 模块标识    | 模块地址包含数据模块的代号、名称等内容                 |
| dmc         | Data Module Code   | 模块代码    |                                     |
| dm-else-seq | Else Branch DM Sequence  | else 分支 | else 分支,采用这个标记是来说明条件在否的结果时采用的逻辑结果   |
| dm-if       | If-Then-Else DM Nodes  | if 节点   | if 节点                               |
| dm-loop     | Loop Data Module Nodes   | loop 节点 | loop 节点                             |
| dm-node     | Data Module Node   | 模块节点    | 模块节点                                |
| dm-node-alt | DM Node Alternatives   | 模块可替换节点 | 模块可替换节点                             |
| dmodule     | Data Module  | 数据模块    |                                     |

表 A.1 (续)

| 英文名称         | 英文描述                                   | 中文名称          | 说 明              |
|--------------|--|---------------|------------------|
| dm-seq       | Data Module Sequence                   | 模块序列          |                  |
| dm-then-seq  | Then Branch DM Sequence                | then 分支下的模块序列 | then 分支下的模块序列    |
| dmtitle      | Data Module Title                      | 数据模块标题        | 模块的技术名称和信息名称     |
| double-bound | Low and High Number Range              | 上下界           | 填充框里可接受值的上下界     |
| drill        | Flight Drill                           | 训练信息          | 有关的飞行训练信息        |
| ecscs        | Equipment Category & Sub-Category Code | 设备种类码         | 地面设备的种类码         |
| efy          | EFfectivitY                            | 效用            |                  |
| eidc         | Equipment Identification Code          | 设备标识码         |                  |
| elecplr      | electrical power                       | 电动力           | 采用电为源动力          |
| elseif       | Else If Condition                      | Else If 条件    |                  |
| emphasis     | Phrase Emphasis                        | 强调显示          | 文本中需要强调的内容       |
| empty        | empty                                  | 空集            |                  |
| endmattr     | Drill End Matter                       | 训练总结          | 训练结束后的一些事情       |
| entfield     | Entry out field                        | 输出区域          | 给用户提提供提问 输入的区域   |
| entry        | Table Entry                            | 表项            | 表单元的各种参数         |
| eq           | equal                                  | 等运算           | 相等时进行的运算         |
| equip        | Equipment                              | 设备            | 装备及产品            |
| esttime      | Estimated Time Spent                   | 工作时间          |                  |
| exmod        | Excluded Modifications                 | 拒绝修订          | 模块在某技术状态编写时被拒绝修订 |
| exponent     | exponent                               | 指数运算          | 指数运算             |
| Expression   | Expression Definition                  | 表达式           | 定义表达式            |
| FALSE        | FALSE                                  | 假             | 假                |
| fault        | fault                                  | 故障            | 故障               |
| fcontext     | Context For Isolate Proc Determination | 故障环境          | 故障观测到时的环境情况      |
| fcposn       | the required status of any controls    | 控制的要求状态       | 任何控制的要求状态        |
| fdesc        | Fault Description                      | 故障描述          |                  |
| figure       | figure                                 | 插图            |                  |
| fillin       | Fill-In-The-Blank Dialog               | 填充对话框         |                  |
| firstver     | first verification                     | 第一次验证         |                  |
| firstyear    | First Year the Copyright was claimed   | 版权生效年限        |                  |
| float        | float                                  | 浮点运算          |                  |
| foldout      | Foldout                                | 折页            | 多页图或表            |
| frc          | Flight/Operator Reference Cards        | 飞行操作卡         | 记录飞行时应进行各种操作的文件  |
| from         | Limrange from                          | 起始点           |                  |

表 A.1 (续)

| 英文名称        | 英文描述  | 中文名称      | 说 明                     |
|-------------|---|-----------|-------------------------|
| ftc         | FiTment Code  | 设备码       |                         |
| fuel        | fuel  | 油料        | 进行程序前准备的油料要求            |
| ge          |   | 大于等于      |                         |
| govtlicense | Government License                                  | 版权证号      |                         |
| graphic     | Graphic / Image                                     | 图         |                         |
| gt          | great than  | 大于        |                         |
| handling    | Data Handling Requirements                          | 处理要求      | 数据密级的处理要求,包括存储、模块分类     |
| high-bound  | High bound  | 上界        |                         |
| holder      | Holder  | 版权持有人     |                         |
| hotspot     | Graphical Hotspot                                   | 热点        |                         |
| hydpwr      | hydraulic   | 液压动力      | 进行程序前液压动力的准备要求          |
| icy         | Interchangeability                                  | 互换性       |                         |
| identno     | Identification Number                               | 标识号       | 通常指制造商的标识信息,有 mfc 和 pnr |
| idivide     | integer divide                                      | 整除        |                         |
| idstatus    | Identification and Status Information               | 标识和状态     |                         |
| if          | if  | 条件判别      |                         |
| ifault      | Isolated fault                                      | 隔离的故障     |                         |
| ils         | Integrated Logistic Support number                  | 综合后勤保障码   |                         |
| incode      | information code                                    | 信息码       | 产品活动的描述,短描述是信息码里的内容     |
| incodev     | Information Code Variant                            | 信息码变量     | 有略微改动情况下信息的描述           |
| index       | The index operator supports one or two index-values | 幂指数运算     | 幂指数运算的表达式               |
| index-value |   | 幂值        |                         |
| indxflag    | Index Flag  | 索引标记      |                         |
| infoname    | information name                                    | 信息名称      | 模块的信息名称                 |
| inform      | Additional Information                              | 模块约束信息    | 模块状态中的约束信息,如版权、政策       |
| initialize  | Initialize a Variable Value                         | 初值        | 变量的初值                   |
| inspection  | inspection  | 检查        |                         |
| instruct    | Specific Instructions                               | 指南        | 模块发行的指令性文件              |
| integer     | integer   | 整数        |                         |
| intersect   | Intersection  | 交集        |                         |
| ipc         | Illustrated Parts Catalog                           | 有插图的零部件目录 |                         |
| ipp         | Initial Provisioning Project                        | 初始供应方案    |                         |
| ippref      | Reference to IPP                                    | 初始供应方案引用  |                         |
| isn         | Item Sequence Number                                | 项目序列号     | 项目序列号                   |

表 A.1 (续)

| 英文名称       | 英文描述   | 中文名称      | 说 明               |
|------------|--|-----------|-------------------|
| isoend     | Final Step of Isolation Procedure            | 结束步骤      | 程序中的结束步骤          |
| isolate    | Observe Fault Location                       | 故障定位      |                   |
| isolatep   | Isolation Procedure Core                     | 隔离程序步骤信息  |                   |
| isoproc    | Isolation Procedure                          | 隔离程序      |                   |
| isostep    | Step of Isolation Procedure                  | 隔离程序步骤    |                   |
| issdate    | Issue Date                                   | 发布日期      | 模块或出版物的发布时间       |
| issno      | Issue Number                                 | 发布号       | 模块或出版物的发布号        |
| item       | List Item                                    | 列项        | 段落中的列项            |
| itemloc    | Item Location Code                           | 单元位置码     |                   |
| jacked     | indicate whether the product is to be raised | 起重准备      | 用来说明产品是否需要千斤顶顶起   |
| lastyear   | Last Year the Copyright was claimed          | 版权终止年     |                   |
| le         | less equal                                   | 小于等于      |                   |
| legend     | legend                                       | 图例        |                   |
| level      | Maintenance level                            | 维修级别      |                   |
| limit      | Time Limit                                   | 时间限制      |                   |
| limittype  | Limit Type                                   | 限制类型      |                   |
| limrange   | Limit Range                                  | 限制范围      |                   |
| locandrep  | LRU location and repair procedure            | LRU 定位和修理 | LRU 定位和修理         |
| low-bound  | low-bound                                    | 下界值       |                   |
| lru        | On Line Replaceable Unit                     | 外场可更换单元   |                   |
| lruitem    | Line Replaceable Unit Item                   | 外场可更换单元项  |                   |
| lt         | less than                                    | 小于        |                   |
| mainfunc   | Maintenance Function                         | 维修活动      | 维修活动包含维修中的那些步骤    |
| member     | member                                       | 成员        |                   |
| Menu       | Menu Choice Dialog                           | 菜单选择框     |                   |
| Menuchoice | Menu Dialog Choice                           | 菜单选择器     |                   |
| mfc        | Manufacturer                                 | 制造商       |                   |
| mfm        | select or Manufacture From range             | 选择或制造的范围  |                   |
| minus      | minus  | 减运算       |                   |
| mod        | Modification Order                           | 修改        |                   |
| model      | model  | 产品型号      |                   |
| modelic    | Model identical code                         | 模块标识符     |                   |
| modtitle   | Modification Title                           | 修改题目      | 产品所对应的数据模块进行修改的题目 |
| modulus    | modulus                                      | 绝对值运算     |                   |

表 A.1 (续)

| 英文名称         | 英文描述  | 中文名称     | 说 明              |
|--------------|---|----------|------------------|
| mov          | Model Version                                       | 产品的版本    |                  |
| ne           | negative  | 负        |                  |
| neg          | negative  | 否        |                  |
| nil          | Not Illustrated                                     | 无插图      |                  |
| no           | no  | 否        |                  |
| noassertions | No Assertions                                       | 无声明      | 在菜单选择中没有声明       |
| noclose      | No Close Up procedures                              | 程序结束时无活动 | 程序结束时无活动         |
| noconds      | No Required Conditions                              | 没有必要条件   |                  |
| nomen        | Nomenclature  | 术语       |                  |
| norefs       | No References                                       | 无引用      |                  |
| nosafety     | No Safety Conditions                                | 无安全条件    |                  |
| nospare      | No Spares   | 无零部件     |                  |
| nosupeq      | No Support Equipment                                | 无保障设备    |                  |
| nosupply     | No Supplies   | 无保障物资    |                  |
| not          | not   | 非        |                  |
| note         | note  | 说明       |                  |
| novalue      | no value  | 无值       | 表达式或集合中没有数值      |
| num-range    | Fill in Dialog Number Range                         | 数值范围     | 对话框的数值范围         |
| ofault       | Observed Fault                                      | 观察到的故障   |                  |
| opndurn      | Operation Duration                                  | 工序时间     | 操作过程的总时间         |
| or           | or  | 或运算      | 表达式中的或运算         |
| orig         | Originator  | 编写单位     |                  |
| p            | Simple Paragraph                                    | 简单段落     |                  |
| para         | Paragraph   | 段落       | 文档的以段落为基础的节      |
| part         |   | 零部件      |                  |
| para0        | used to contain descriptive information as detailed | 节        | 训练或人员的描述性信息      |
| perscat      | Personnel Category                                  | 技术工种     |                  |
| perskill     | Personnel Skill Level                               | 人员技术等级   | 人员技术等级           |
| person       | Personnel   | 人员       | 有特殊技能要求的人员       |
| plus         | plus  | 加运算      | 表达式中的加运算         |
| pmc          | Publication Module Code                             | 出版物模块代码  | 代码               |
| pmd          | Production Management Data                          | 生产管理数据   | 进行修理生产时需要管理的一些数据 |
| pmissuer     | 5-character NCAGE Code of Issuing Authority         | 出版物发行者   |                  |

表 A. 1 (续)

| 英文名称           | 英文描述  | 中文名称     | 说 明                  |
|----------------|---|----------|----------------------|
| pmnumber       | 5-digit Publication Module Number starting at 00001   | 出版物编号    |                      |
| pmvolume       | 2-digit sequential Publication Volume Number (NN), default is 00 for a single B137 volume publication | 出版物卷号    |                      |
| polref         | Security Policy Document Reference  | 引用法规     | 规定模块密级的引用文件          |
| postset        | postset   | 后置条件     |                      |
| precond        | Precondition  | 前提条件     |                      |
| prelreqs       | Preliminary Requirements  | 预备要求     | 在完成工作之前要进行的各项必需的准备活动 |
| preset         | Preset a Variable Value   | 预置条件     | 对运行节点进行的设置条件         |
| procd          | identify a crew/operator procedure  | 程序       | 明确一个操作人员的操作程序        |
| proced         | Procedural Information  | 程序信息     |                      |
| process        | Maintenance Process Flow  | 过程模块     |                      |
| prompt         | Dialog Prompt   | 提示       |                      |
| pubcode        | Publication code  | 出版物代码    |                      |
| pubdate        | Publication date  | 出版日期     |                      |
| pubtitle       | Publication title   | 出版物标题    |                      |
| qa             | Quality Assurance Status  | 质量保证     |                      |
| qna            | Quantity per Next higher Assembly   | 上级组件数量   |                      |
| qty            | Quantity  | 数量       |                      |
| question       | question  | 提问       |                      |
| qui            | Quantity per Unit of Issue  | 发布单元数量   |                      |
| randlist       | Random List   | 无序列表     | 没有顺序的列表              |
| rdandrt        | Reference Data Modules And Technical Publications   | 引用模块和出版物 |                      |
| real           | real  | 实数       |                      |
| reason         | Cause of Failure  | 原因       | 故障的原因                |
| refdm          | Reference Data Module   | 引用模块     | 引用模块                 |
| refdms         | Reference Data Modules  | 多个模块引用   |                      |
| refinspec      | Inspection Reference  | 检测引用     |                      |
| refs           | References  | 引用       |                      |
| reftp          | Reference Technical Publication   | 引用技术出版物  |                      |
| registeredwith | Names the Agencies with which the Copyright has been registered                                       | 版权注册机构   |                      |
| remarks        | Remarks   | 注释       |                      |

表 A.1 (续)

| 英文名称     | 英文描述   | 中文名称    | 说 明  |
|----------|--|---------|--|
| remove   | remove   |         |  |
| repair   | Action To Be Performed For Repair                      | 修理活动    |  |
| reqcond  | Required Condition                                     | 必要条件    |  |
| reqcondm | Required Condition Data Modules                        | 必要条件模块  | 当条件在一个单独的模块里描述时,使用该元素                              |
| reqconds | Required Conditions                                    | 必要条件信息  |  |
| reqcontp | Required Condition Technical Publications              | 必要条件出版物 | 当条件在一个单独的出版物里描述时,使用该元素                             |
| reqdm    | Required Data Module                                   | 必要的模块   |  |
| reqpers  | Required Persons                                       | 必要的人员   |  |
| reqtp    | Required Technical Publication                         | 必要的出版物  |  |
| response | response   | 回答      |  |
| rfa      | Reason For Amendment                                   | 修订原因    |  |
| rfd      | ReFERENCE Designator                                   | 引用目标    |  |
| rfs      | Reason for Selection                                   | 选择原因    |  |
| rfu      | Reason For Update                                      | 更新原因    |  |
| row      | Row Of Table   | 行       |  |
| rpc      | Responsible Partner Company                            | 解释单位    |  |
| rtx      | Refer To   | 参考      |  |
| safecond | Safety Condition                                       | 安全要求    |  |
| safedev  | the state of any safety devices                        | 安全设施准备  |  |
| safety   | Safety Conditions                                      | 安全要求信息  |  |
| sampling | sampling   | 样本      |  |
| sb       | Service Bulletin                                       | 服务通告    | 对产品技术信息情况的通告,如技术资料哪些进行了修订,实行的期限,因产品上组件的改动应采用哪些技术文档 |
| schedule | Schedule Information                                   | 维修计划    |  |
| sdc      | system difference code                                 | 系统区分码   |  |
| section  |  | 子系统码    |  |
| security | Security Marking                                       | 密级      |  |
| secver   | second verification                                    | 第二次验证   |  |
| sel-list | Selection List Answer                                  | 选择列表    |  |
| seqlist  | Sequential List  | 顺序列表    |  |
| set      |  | 集合      |  |
| set-diff | Make a new set which is the difference of the two sets | 差集      |  |

表 A. 1 (续)

| 英文名称     | 英文描述                                      | 中文名称      | 说 明                                      |
|----------|---|-----------|--|
| sheet    | Figure Sheet                              | 图页        | 插图页                                      |
| sizeof   | Number of characters in the string or set | 字符数       | 集合或字符串中的字符数                              |
| skill    | Skill Level                               | 技术等级      | 数据模块使用人员的技术等级,分三类:基本的、中级、高级。还可以包括工程给定的级别 |
| smf      | Select or Manufacture From                | 选择或制造     |  |
| smr      | Source Maintenance and Recoverability     | 资源维护 & 恢复 |  |
| spanspec | Span Column Specification                 | 列定义       | 表中列的一系列规定                                |
| spare    | Spare Item                                | 备件单品      |  |
| spares   | spares                                    | 备件集合      |  |
| sparesli | Spare List                                | 零部件清单     |  |
| srु      | On Shop Replaceable Unit                  | 内场可更换单元   |  |
| srुitem  | Shop Replaceable Unit Item                | 内场可更换单元项  |  |
| srv      | Service                                   | 服务        |  |
| status   | Status Section                            | 状态部分      | 数据模块的状态描述                                |
| step     | Drill or Procedural Step                  | 步骤        | 训练或程序中的步骤                                |
| step1    | Procedural Step Level 1                   | 程序步骤 1    |  |
| step2    | Procedural Step Level 2                   | 程序步骤 2    |  |
| step3    | Procedural Step Level 3                   | 程序步骤 3    |  |
| step4    | Procedural Step Level 4                   | 程序步骤 4    |  |
| step5    | Procedural Step Level 5                   | 程序步骤 5    |  |
| str      | Special sToRage(storage)                  | 特殊存储      |  |
| string   | string                                    | 字符串       |  |
| subdrill | Sub Flight Drill                          | 训练子科目     |  |
| subject  | subject                                   | 单元码       | SNS 中的第二部分,若在存在的情况下,是对子系统的进一步划分          |
| subpara1 | Sub paragraph1                            | 子段落 1     |  |
| subpara2 | Sub paragraph2                            | 子段落 2     |  |
| subpara3 | Sub paragraph3                            | 子段落 3     |  |
| subpara4 | Sub paragraph4                            | 子段落 4     |  |
| subscrpt | Sub scription                             | 下标        | 字母的下标格式                                  |
| subsect  | sub-section                               | 子子系统码     | SNS 中的第二部分,若在存在的情况下,是对子系统的进一步划分          |
| subset   | subset                                    | 子集        | 表达式中的子集运算                                |



表 A.1 (续)

| 英文名称      | 英文描述                                 | 中文名称    | 说 明              |
|-----------|--------------------------------------|---------|------------------|
| substring | substring                            | 子字符串    | 子字符串             |
| supeqli   | Support Equipment List               | 保障设备清单  |                  |
| supequi   | Support Equipment Item               | 保障设备项   |                  |
| supequip  | Support Equipment                    | 保障设备    |                  |
| supeqvc   | Support equipment v code             | 保障设备变量码 | 地面设备中 DMC 中的代码   |
| supervis  | Supervisor                           | 监督级别    |                  |
| supplies  | supplies                             | 供应品     | 在维修保障活动中消耗的物品    |
| supply    | Supply Item                          | 保障物资项   |                  |
| supplyli  | Supply List                          | 保障物资清单  |                  |
| supscpt   | sup script                           | 上标      |                  |
| symbol    | symbol                               | 图标      | 在警告、更改、强调、段落中的图标 |
| table     | table                                | 表       | 表元素的总体要求         |
| tabtitle  | contain thumb tab text for the drill | 表题目     |                  |
| task      | Short Task Description               | 任务      |                  |
| taskitem  | Task Item                            | 任务项     |                  |
| tasklist  | Task List                            | 任务列表    |                  |
| tbody     | Table Body                           | 表格体     |                  |
| techname  | technical standard                   | 技术名称    | 数据模块标题中的物理技术名称   |
| techpub   | Technical Publication                | 技术出版物   |                  |
| term      | Term                                 | 术语      | 数据列表中的术语或词汇      |
| test      | test                                 | 测试      |                  |
| testdesc  | Test Description                     | 测试描述    |                  |
| testnomen | Test Designation                     | 测试指定    |                  |
| testproc  | Test Procedure                       | 测试程序    |                  |
| text      | text                                 | 文本      | 在提示、对话框中的文本元素    |
| tfoot     | Table Footer                         | 表尾      |                  |
| tgroup    | Table Group                          | 表格组     | 一组或多组表格          |
| thead     | Table Header                         | 表头      |                  |
| thi       | Threshold Interval                   | 临界区间    | 到达临界值的时间         |
| threshold | Threshold Inspection                 | 临界检查值   |                  |
| time      | time                                 | 时间      |                  |
| timelimit | Time Limit                           | 时间限制    |                  |
| title     | title                                | 标题      | 列表、图、表的标题        |
| to        | Limrange to                          | 限制      |                  |
| tolerance | Tolerance Value                      | 公差值     |                  |

表 A.1 (续)

| 英文名称                       | 英文描述                     | 中文名称       | 说 明             |
|----------------------------|--------------------------|------------|-----------------|
| trade                      | Personnel Trade Code     | 人员从业代码     |                 |
| trigger                    | trigger                  | 触发         |                 |
| TRUE                       | TRUE                     | 真          | 布尔函数的真值         |
| trunc                      | truncate                 | 取整         | 表达式中的取整运算       |
| type                       | type                     | 产品类型       |                 |
| uca                        | Usable on Code Assembly  | 组件使用码      |                 |
| uce                        | Usable on Code Equipment | 设备使用码      |                 |
| union                      | union                    | 并集         |                 |
| unverif                    | Unverified               | 未验证        | 没有进行质量保证验证      |
| uoi                        | Unit Of Issue            | 发行单元       |                 |
| value                      | value                    | 值          |                 |
| variable                   | variable                 | 变量         |                 |
| variable-de-<br>clarations | Variable declarations    | 变量声明       |                 |
| variable-ref               | Variable reference       | 引用变量       |                 |
| version                    | version                  | 版本信息(产品型别) |                 |
| versrank                   | Version Rank             | 版本范围       |                 |
| warning                    | warning                  | 警告         |                 |
| water                      |                          | 水的准备       |                 |
| xor                        | Identical and different  | 异或         |                 |
| xref                       | Cross Reference          | 交叉引用       | 数据模块中的交叉引用。双向链接 |
| yes                        | yes                      | 是          |                 |
| yesno                      | Yes or No Answer         | 是与否        |                 |
| zone                       | zone                     | 分区信息       |                 |

## 附录 B

### (规范性附录)

### 数据模块的 DTD

本附录描述的是各类数据模块的 DTD。依据 GB/T 24463 的本部分产生的数据应按照本附录和附录 A 的规定。

#### B.1 人员信息 DTD

本文件包含了人员内容 DTD。它标识了所有与人员有关的元素和它们之间的关系。

```
<? xml version="1.0" encoding="UTF-8"?>
<! ELEMENT dmodule (rdf,Description?,idstatus,content)>
<! ATTLIST dmodule
    id ID #IMPLIED
    %RDFDCATT;>
<! ELEMENT idstatus (dmaddres,srcdmaddres?,status)>
<! ELEMENT dmaddres (dmceextension?,dmc,dmtitle,issno,issdate)>
<! ELEMENT dmceextension (dmeproducer,dmcode)>
<! ELEMENT dmeproducer (#PCDATA)>
<! ELEMENT dmcode (#PCDATA)>
<! ELEMENT dmc (age | avee)>
<! ELEMENT age (modelic,supeqvc,ecscs,eidc,cidc,discode,discodev,incode,incodev,itemloc)>
<! ELEMENT modelic (#PCDATA)>
<! ELEMENT supeqvc (#PCDATA)>
<! ELEMENT ecscs (#PCDATA)>
<! ELEMENT eidc (#PCDATA)>
<! ELEMENT cidc (#PCDATA)>
<! ELEMENT discode (#PCDATA)>
<! ELEMENT discodev (#PCDATA)>
<! ELEMENT incode (#PCDATA)>
<! ELEMENT incodev (#PCDATA)>
<! ELEMENT itemloc (#PCDATA)>
<! ELEMENT avee (modelic,sdc,chapnum,section,subsect,subject,discode,discodev,incode,incodev,
itemloc)>
<! ELEMENT sdc (#PCDATA)>
<! ELEMENT chapnum (#PCDATA)>
<! ELEMENT section (#PCDATA)>
<! ELEMENT subsect (#PCDATA)>
<! ELEMENT subject (#PCDATA)>
<! ELEMENT dmtitle (techname,infoname?)>
<! ELEMENT techname (#PCDATA)>
<! ELEMENT infoname (#PCDATA)>
<! ELEMENT issno EMPTY>
<! ATTLIST issno
    issno NMTOKEN #REQUIRED
    inwork NMTOKEN #IMPLIED
    type (new | changed | deleted | revised | status | rinstat-changed | rinstat-revised
rinstat-status) "new"
>
<! ELEMENT issdate EMPTY>
<! ATTLIST issdate
    year NMTOKEN #REQUIRED
    month NMTOKEN #REQUIRED
    day NMTOKEN #REQUIRED
>
<! ELEMENT srcdmaddres (dmceextension?,dmc,dmtitle,issno,issdate)>
```

```

<| ELEMENT status (security,datarest *,rpc,orig,applic,inlineapplics?,brexref,qa + ,(ein) * ),rfu *,
remarks * )>
<| ATTLIST status
    id      ID      # IMPLIED
>
<| ELEMENT security EMPTY>
<| ATTLIST security
    class    (01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17
| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56
| 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 |
76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95
| 96 | 97 | 98 | 99)    # REQUIRED

    commcls  (cc01 | cc02 | cc03 | cc04 | cc05 | cc06 | cc07 | cc08 | cc09 | cc10 | cc11 | cc12
| cc13 | cc14 | cc15 | cc16 | cc17 | cc18 | cc19 | cc20 | cc21 | cc22 | cc23 | cc24 | cc25 | cc26
| cc27 | cc28 | cc29 | cc30 | cc31 | cc32 | cc33 | cc34 | cc35 | cc36 | cc37 | cc38 | cc39 | cc40
| cc41 | cc42 | cc43 | cc44 | cc45 | cc46 | cc47 | cc48 | cc49 | cc50 | cc51 | cc52 | cc53 | cc54
| cc55 | cc56 | cc57 | cc58 | cc59 | cc60 | cc61 | cc62 | cc63 | cc64 | cc65 | cc66 | cc67 | cc68
| cc69 | cc70 | cc71 | cc72 | cc73 | cc74 | cc75 | cc76 | cc77 | cc78 | cc79 | cc80 | cc81 | cc82
| cc83 | cc84 | cc85 | cc86 | cc87 | cc88 | cc89 | cc90 | cc91 | cc92 | cc93 | cc94 | cc95 | cc96
| cc97 | cc98 | cc99)    # IMPLIED

    caveat  (cv01 | cv02 | cv03 | cv04 | cv05 | cv06 | cv07 | cv08 | cv09 | cv10 | cv11 | cv12
| cv13 | cv14 | cv15 | cv16 | cv17 | cv18 | cv19 | cv20 | cv21 | cv22 | cv23 | cv24 | cv25 | cv26
| cv27 | cv28 | cv29 | cv30 | cv31 | cv32 | cv33 | cv34 | cv35 | cv36 | cv37 | cv38 | cv39 | cv40
| cv41 | cv42 | cv43 | cv44 | cv45 | cv46 | cv47 | cv48 | cv49 | cv50 | cv51 | cv52 | cv53 | cv54
| cv55 | cv56 | cv57 | cv58 | cv59 | cv60 | cv61 | cv62 | cv63 | cv64 | cv65 | cv66 | cv67 | cv68
| cv69 | cv70 | cv71 | cv72 | cv73 | cv74 | cv75 | cv76 | cv77 | cv78 | cv79 | cv80 | cv81 | cv82
| cv83 | cv84 | cv85 | cv86 | cv87 | cv88 | cv89 | cv90 | cv91 | cv92 | cv93 | cv94 | cv95 | cv96
| cv97 | cv98 | cv99)    # IMPLIED
>
<| ELEMENT datarest (applic?,instruct,inform?)>
<| ATTLIST datarest
    refapplic IDREF    # IMPLIED
    id      ID      # IMPLIED
    level    NMTOKEN    # IMPLIED
    mark      NMTOKEN    # IMPLIED
    change    (add | delete | modify)    # IMPLIED
    rfc      CDATA      # IMPLIED
>
<| ELEMENT applic (type?,model *)>
<| ATTLIST applic
    applicconf (allowed | built | designed | installed | manufactured | supported)
    # IMPLIED
    id      ID      # IMPLIED
    level    NMTOKEN    # IMPLIED
    mark      NMTOKEN    # IMPLIED
    change    (add | delete | modify)    # IMPLIED
    rfc      CDATA      # IMPLIED
>
<| ELEMENT type (#PCDATA)>
<| ELEMENT model (version *,((csnref | (mfc)) * ),maintlevel?,techconds *,opconds *)>
<| ATTLIST model
    model    CDATA      # REQUIRED
>
<| ELEMENT version (versrank *)>
<| ATTLIST version
    version  CDATA      # REQUIRED
    id      ID      # IMPLIED
>

```

```

<! ELEMENT versrank ((single | range) +))
<! ATTLIST versrank
  verstatus CDATA # IMPLIED
  id ID # IMPLIED
  level NMTOKEN # IMPLIED
  mark NMTOKEN # IMPLIED
  change (add | delete | modify) # IMPLIED
  rfc CDATA # IMPLIED
>
<! ELEMENT single (#PCDATA)>
<! ELEMENT range EMPTY>
<! ATTLIST range
  from CDATA # REQUIRED
  to CDATA # REQUIRED
>
<! ELEMENT csnref EMPTY>
<! ATTLIST csnref
  refcsn CDATA # REQUIRED
  refisn CDATA # IMPLIED
  refipp CDATA # IMPLIED
  refrpc CDATA # IMPLIED
  id ID # IMPLIED
  level NMTOKEN # IMPLIED
  mark NMTOKEN # IMPLIED
  change (add | delete | modify) # IMPLIED
  rfc CDATA # IMPLIED
  % XLINKATT2;
>
<! ELEMENT mfc (#PCDATA)>
<! ATTLIST mfc
  id ID # IMPLIED
  level NMTOKEN # IMPLIED
  mark NMTOKEN # IMPLIED
  change (add | delete | modify) # IMPLIED
  rfc CDATA # IMPLIED
>
<! ELEMENT pnr (#PCDATA)>
<! ATTLIST pnr
  id ID # IMPLIED
  level NMTOKEN # IMPLIED
  mark NMTOKEN # IMPLIED
  change (add | delete | modify) # IMPLIED
  rfc CDATA # IMPLIED
>
<! ELEMENT serialno ((single | range) +))
<! ELEMENT maintlevel (mntlvl +))
<! ELEMENT mntlvl EMPTY>
<! ATTLIST mntlvl
  mntlvl (m101 | m102 | m103 | m104 | m105 | m106 | m107 | m108 | m109 | m110 | m111 | m112
| m113 | m114 | m115 | m116 | m117 | m118 | m119 | m120 | m121 | m122 | m123 | m124 | m125 | m126
| m127 | m128 | m129 | m130 | m131 | m132 | m133 | m134 | m135 | m136 | m137 | m138 | m139 | m140
| m141 | m142 | m143 | m144 | m145 | m146 | m147 | m148 | m149 | m150 | m151 | m152 | m153 | m154
| m155 | m156 | m157 | m158 | m159 | m160 | m161 | m162 | m163 | m164 | m165 | m166 | m167 | m168
| m169 | m170 | m171 | m172 | m173 | m174 | m175 | m176 | m177 | m178 | m179 | m180 | m181 | m182
| m183 | m184 | m185 | m186 | m187 | m188 | m189 | m190 | m191 | m192 | m193 | m194 | m195 | m196
| m197 | m198 | m199) # REQUIRED
>
<! ELEMENT techconds (textual-desc?,techcond * )>
<! ATTLIST techconds
  id ID # IMPLIED

```

```

    level  NMTOKEN    # IMPLIED
    mark   NMTOKEN    # IMPLIED
    change (add | delete | modify)  # IMPLIED
    rfc    CDATA      # IMPLIED
  >
<| ELEMENT textual-desc (#PCDATA)>
<| ATTLIST textual-desc
    id     ID        # IMPLIED
    level  NMTOKEN    # IMPLIED
    mark   NMTOKEN    # IMPLIED
    change (add | delete | modify)  # IMPLIED
    rfc    CDATA      # IMPLIED
  >
<| ELEMENT techcond (((((age | avee), issno?, dmtitle?) | (pubcode, pubtitle?, pubdate?) |
condtitle?)),scheduled?,embodied?))
<| ATTLIST techcond
    tccode (tc01 | tc02 | tc03 | tc04 | tc05 | tc06 | tc07 | tc08 | tc09 | tc10 | tc11 | tc12
| tc13 | tc14 | tc15 | tc16 | tc17 | tc18 | tc19 | tc20 | tc21 | tc22 | tc23 | tc24 | tc25 | tc26
| tc27 | tc28 | tc29 | tc30 | tc31 | tc32 | tc33 | tc34 | tc35 | tc36 | tc37 | tc38 | tc39 | tc40
| tc41 | tc42 | tc43 | tc44 | tc45 | tc46 | tc47 | tc48 | tc49 | tc50 | tc51 | tc52 | tc53 | tc54
| tc55 | tc56 | tc57 | tc58 | tc59 | tc60 | tc61 | tc62 | tc63 | tc64 | tc65 | tc66 | tc67 | tc68
| tc69 | tc70 | tc71 | tc72 | tc73 | tc74 | tc75 | tc76 | tc77 | tc78 | tc79 | tc80 | tc81 | tc82
| tc83 | tc84 | tc85 | tc86 | tc87 | tc88 | tc89 | tc90 | tc91 | tc92 | tc93 | tc94 | tc95 | tc96
| tc97 | tc98 | tc99)  # REQUIRED
    tcno   CDATA      # IMPLIED
    tctype (pre | post | preandpo)  # REQUIRED
    mfc    CDATA      # IMPLIED
    id     ID        # IMPLIED
    level  NMTOKEN    # IMPLIED
    mark   NMTOKEN    # IMPLIED
    change (add | delete | modify)  # IMPLIED
    rfc    CDATA      # IMPLIED
  >
<| ELEMENT pubcode (#PCDATA | pmc) * >
<| ATTLIST pubcode
    pubcodsy CDATA      # IMPLIED
  >
<| ELEMENT pmc (modelic,pmissuer,pmnumber,pmvolume)>
<| ELEMENT pmissuer (#PCDATA)>
<| ELEMENT pmnumber (#PCDATA)>
<| ELEMENT pmvolume (#PCDATA)>
<| ELEMENT pubtitle (#PCDATA)>
<| ELEMENT pubdate EMPTY>
<| ATTLIST pubdate
    year   NMTOKEN    # REQUIRED
    month  NMTOKEN    # REQUIRED
    day    NMTOKEN    # REQUIRED
  >
<| ELEMENT condtitle (#PCDATA)>
<| ATTLIST condtitle
    id     ID        # IMPLIED
    level  NMTOKEN    # IMPLIED
    mark   NMTOKEN    # IMPLIED
    change (add | delete | modify)  # IMPLIED
    rfc    CDATA      # IMPLIED
  >
<| ELEMENT scheduled ((single | range) +)>
<| ATTLIST scheduled
    id     ID        # IMPLIED
    level  NMTOKEN    # IMPLIED

```

```

mark    NMTOKEN    # IMPLIED
change  (add | delete | modify)    # IMPLIED
rfc     CDATA      # IMPLIED
>
<! ELEMENT embodied ((single | range) +)>
<! ATTLIST embodied
  id     ID        # IMPLIED
  level  NMTOKEN    # IMPLIED
  mark   NMTOKEN    # IMPLIED
  change (add | delete | modify)    # IMPLIED
  rfc    CDATA      # IMPLIED
>
<! ELEMENT opconds (textual-desc?,opcond*)>
<! ATTLIST opconds
  id     ID        # IMPLIED
  level  NMTOKEN    # IMPLIED
  mark   NMTOKEN    # IMPLIED
  change (add | delete | modify)    # IMPLIED
  rfc    CDATA      # IMPLIED
>
<! ELEMENT opcond (#PCDATA)>
<! ATTLIST opcond
  opcno   NMTOKEN    # IMPLIED
  opccode CDATA      # IMPLIED
  confirmed NMTOKEN    # IMPLIED
  id      ID        # IMPLIED
  level   NMTOKEN    # IMPLIED
  mark    NMTOKEN    # IMPLIED
  change  (add | delete | modify)    # IMPLIED
  rfc     CDATA      # IMPLIED
>
<! ELEMENT instruct (distrib,handling?)>
<! ATTLIST instruct
  id     ID        # IMPLIED
  level  NMTOKEN    # IMPLIED
  mark   NMTOKEN    # IMPLIED
  change (add | delete | modify)    # IMPLIED
  rfc    CDATA      # IMPLIED
>
<! ELEMENT distrib (#PCDATA)>
<! ATTLIST distrib
  id     ID        # IMPLIED
  level  NMTOKEN    # IMPLIED
  mark   NMTOKEN    # IMPLIED
  change (add | delete | modify)    # IMPLIED
  rfc    CDATA      # IMPLIED
>
<! ELEMENT handling (#PCDATA)>
<! ATTLIST handling
  id     ID        # IMPLIED
  level  NMTOKEN    # IMPLIED
  mark   NMTOKEN    # IMPLIED
  change (add | delete | modify)    # IMPLIED
  rfc    CDATA      # IMPLIED
>
<! ELEMENT inform (copyright)>
<! ATTLIST inform
  id     ID        # IMPLIED
  level  NMTOKEN    # IMPLIED
  mark   NMTOKEN    # IMPLIED

```

```

    change    (add | delete | modify)    # IMPLIED
    rfc       CDATA    # IMPLIED
  >
<! ELEMENT copyright (para +)>
<! ATTLIST copyright
    id       ID    # IMPLIED
    level    NMTOKEN    # IMPLIED
    mark     NMTOKEN    # IMPLIED
    change   (add | delete | modify)    # IMPLIED
    rfc      CDATA    # IMPLIED
  >
<! ELEMENT para (#PCDATA | applic | ein | cb | parasigdata | quantity | xref | indxflag | change
| emphasis | symbol | subscript | superscript | refdm | reftyp | ftnote | ftnref | acronym | acroterm
| capgrp | caption | seqlist | randlist | deflist)*>
<! ATTLIST para
    refapplic IDREF    # IMPLIED
    id       ID    # IMPLIED
    level    NMTOKEN    # IMPLIED
    mark     NMTOKEN    # IMPLIED
    change   (add | delete | modify)    # IMPLIED
    rfc      CDATA    # IMPLIED
    class    (01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17
| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56
| 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 |
76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95
| 96 | 97 | 98 | 99)    # IMPLIED
    commcls  (cc01 | cc02 | cc03 | cc04 | cc05 | cc06 | cc07 | cc08 | cc09 | cc10 | cc11 | cc12
| cc13 | cc14 | cc15 | cc16 | cc17 | cc18 | cc19 | cc20 | cc21 | cc22 | cc23 | cc24 | cc25 | cc26
| cc27 | cc28 | cc29 | cc30 | cc31 | cc32 | cc33 | cc34 | cc35 | cc36 | cc37 | cc38 | cc39 | cc40
| cc41 | cc42 | cc43 | cc44 | cc45 | cc46 | cc47 | cc48 | cc49 | cc50 | cc51 | cc52 | cc53 | cc54
| cc55 | cc56 | cc57 | cc58 | cc59 | cc60 | cc61 | cc62 | cc63 | cc64 | cc65 | cc66 | cc67 | cc68
| cc69 | cc70 | cc71 | cc72 | cc73 | cc74 | cc75 | cc76 | cc77 | cc78 | cc79 | cc80 | cc81 | cc82
| cc83 | cc84 | cc85 | cc86 | cc87 | cc88 | cc89 | cc90 | cc91 | cc92 | cc93 | cc94 | cc95 | cc96
| cc97 | cc98 | cc99)    # IMPLIED
    caveat   (cv01 | cv02 | cv03 | cv04 | cv05 | cv06 | cv07 | cv08 | cv09 | cv10 | cv11 | cv12
| cv13 | cv14 | cv15 | cv16 | cv17 | cv18 | cv19 | cv20 | cv21 | cv22 | cv23 | cv24 | cv25 | cv26
| cv27 | cv28 | cv29 | cv30 | cv31 | cv32 | cv33 | cv34 | cv35 | cv36 | cv37 | cv38 | cv39 | cv40
| cv41 | cv42 | cv43 | cv44 | cv45 | cv46 | cv47 | cv48 | cv49 | cv50 | cv51 | cv52 | cv53 | cv54
| cv55 | cv56 | cv57 | cv58 | cv59 | cv60 | cv61 | cv62 | cv63 | cv64 | cv65 | cv66 | cv67 | cv68
| cv69 | cv70 | cv71 | cv72 | cv73 | cv74 | cv75 | cv76 | cv77 | cv78 | cv79 | cv80 | cv81 | cv82
| cv83 | cv84 | cv85 | cv86 | cv87 | cv88 | cv89 | cv90 | cv91 | cv92 | cv93 | cv94 | cv95 | cv96
| cv97 | cv98 | cv99)    # IMPLIED
  >
<! ELEMENT ein (nomen?,refs?)>
<! ATTLIST ein
    einnbr   CDATA    # REQUIRED
    eintype  (exact | family)    # IMPLIED
    mfc      CDATA    # IMPLIED
    id       ID    # IMPLIED
    level    NMTOKEN    # IMPLIED
    mark     NMTOKEN    # IMPLIED
    change   (add | delete | modify)    # IMPLIED
    rfc      CDATA    # IMPLIED
  >
<! ELEMENT nomen (#PCDATA)>
<! ATTLIST nomen
    level    NMTOKEN    # IMPLIED
    mark     NMTOKEN    # IMPLIED
    change   (add | delete | modify)    # IMPLIED

```



```

    rfc      CDATA      # IMPLIED
  >
< ! ELEMENT refs ((refdm+,reftp*) | reftp+))
< ! ELEMENT refdm ((applic?,dmcextension?,(age | avee),issno?,dmtitle?) | ((% XLINKEXT;)*)))
< ! ATTLIST refdm
    target   CDATA      # IMPLIED
    refapplic IDREF      # IMPLIED
    id       ID         # IMPLIED
    level    NMTOKEN     # IMPLIED
    mark     NMTOKEN     # IMPLIED
    change   (add | delete | modify)  # IMPLIED
    rfc      CDATA      # IMPLIED
    % XLINKATT;
  >
< ! ELEMENT reftp (#PCDATA | applic | xref | indxflag | symbol | subscript | supscript | ftnref |
acronym | acroterm | capgrp | caption | pubcode | pubtitle | pubdate | % XLINKEXT;)* >
< ! ATTLIST reftp
    refapplic IDREF      # IMPLIED
    id       ID         # IMPLIED
    level    NMTOKEN     # IMPLIED
    mark     NMTOKEN     # IMPLIED
    change   (add | delete | modify)  # IMPLIED
    rfc      CDATA      # IMPLIED
    % XLINKATT4;
  >
< ! ELEMENT xref (#PCDATA | applic | subscript | supscript)* >
< ! ATTLIST xref
    xrefid    IDREF      # IMPLIED
    xidtype   (figure | table | multimedia | supply | supequip | spares | para | step | sheet |
multimediaobject | hotspot | param | other)  # IMPLIED
    target    CDATA      # IMPLIED
    destitle  CDATA      # IMPLIED
    pretext   CDATA      # IMPLIED
    posttext  CDATA      # IMPLIED
    refapplic IDREF      # IMPLIED
    % XLINKATT3;
  >
< ! ELEMENT subscript (#PCDATA)>
< ! ELEMENT supscript (#PCDATA)>
< ! ELEMENT indxflag EMPTY>
< ! ATTLIST indxflag
    ref1     CDATA      # IMPLIED
    ref2     CDATA      # IMPLIED
    ref3     CDATA      # IMPLIED
    ref4     CDATA      # IMPLIED
  >
< ! ELEMENT symbol (applic?)>
< ! ATTLIST symbol
    boardno   ENTITY     # REQUIRED
    id        ID         # IMPLIED
    reprov    CDATA      # IMPLIED
    reprohgt  CDATA      # IMPLIED
    reproscl  CDATA      # IMPLIED
    refapplic IDREF      # IMPLIED
    % XLINKATT1;
  >
< ! ELEMENT ftnref EMPTY>
< ! ATTLIST ftnref
    xrefid    IDREF      # IMPLIED
  >

```

```

<! ELEMENT acronym (acroterm,acrodef)>
<! ATTLIST acronym
  acrotype (at01 | at02 | at03 | at04 | at05 | at06 | at07 | at08 | at09 | at10 | at11 | at12
| at13 | at14 | at15 | at16 | at17 | at18 | at19 | at20 | at21 | at22 | at23 | at24 | at25 | at26
| at27 | at28 | at29 | at30 | at31 | at32 | at33 | at34 | at35 | at36 | at37 | at38 | at39 | at40
| at41 | at42 | at43 | at44 | at45 | at46 | at47 | at48 | at49 | at50 | at51 | at52 | at53 | at54
| at55 | at56 | at57 | at58 | at59 | at60 | at61 | at62 | at63 | at64 | at65 | at66 | at67 | at68
| at69 | at70 | at71 | at72 | at73 | at74 | at75 | at76 | at77 | at78 | at79 | at80 | at81 | at82
| at83 | at84 | at85 | at86 | at87 | at88 | at89 | at90 | at91 | at92 | at93 | at94 | at95 | at96
| at97 | at98 | at99) "at01"
  id ID # IMPLIED
  level NMTOKEN # IMPLIED
  mark NMTOKEN # IMPLIED
  change (add | delete | modify) # IMPLIED
  rfc CDATA # IMPLIED
>
<! ELEMENT acroterm (#PCDATA | subscript | superscript)*>
<! ATTLIST acroterm
  xrefid IDREF # IMPLIED
>
<! ELEMENT acrodef (#PCDATA | subscript | superscript)*>
<! ATTLIST acrodef
  id ID # IMPLIED
  level NMTOKEN # IMPLIED
  mark NMTOKEN # IMPLIED
  change (add | delete | modify) # IMPLIED
  rfc CDATA # IMPLIED
>
<! ELEMENT capgrp (applic?,colspec*,spanspec*,capbody)>
<! ATTLIST capgrp
  cols NMTOKEN # REQUIRED
  align (left | right | center) "left"
  toctype (none | redtoc | comdtoc | ambertoc | greentoc | yellowtoc) "none"
  colsep NMTOKEN # IMPLIED
  rowsep NMTOKEN # IMPLIED
  refapplic IDREF # IMPLIED
  id ID # IMPLIED
  level NMTOKEN # IMPLIED
  mark NMTOKEN # IMPLIED
  change (add | delete | modify) # IMPLIED
  rfc CDATA # IMPLIED
>
<! ELEMENT colspec EMPTY>
<! ATTLIST colspec
  colnum NMTOKEN # IMPLIED
  colname NMTOKEN # IMPLIED
  align (left | right | center | justify | char) # IMPLIED
  charoff CDATA # IMPLIED
  char CDATA # IMPLIED
  colwidth CDATA # IMPLIED
  colsep NMTOKEN # IMPLIED
  rowsep NMTOKEN # IMPLIED
>
<! ELEMENT spanspec EMPTY>
<! ATTLIST spanspec
  namest NMTOKEN # REQUIRED
  nameend NMTOKEN # REQUIRED
  spanname NMTOKEN # REQUIRED
  align (left | right | center | justify | char) "center"
  charoff CDATA # IMPLIED

```

```

char    CDATA    # IMPLIED
colsep  NMTOKEN  # IMPLIED
rowsep  NMTOKEN  # IMPLIED
>
<! ELEMENT capbody (applic?,caprow+)>
<! ATTLIST capbody
    valign    (top | bottom | middle) "top"
    refapplic IDREF    # IMPLIED
>
<! ELEMENT caprow ((applic?,capentry)+)>
<! ATTLIST caprow
    rowsep  NMTOKEN    # IMPLIED
    refapplic IDREF    # IMPLIED
    id      ID        # IMPLIED
    level   NMTOKEN    # IMPLIED
    mark    NMTOKEN    # IMPLIED
    change  (add | delete | modify)    # IMPLIED
    rfc     CDATA      # IMPLIED
>
<! ELEMENT capentry (applic?,((caption | captext)?))>
<! ATTLIST capentry
    colname  NMTOKEN    # IMPLIED
    namest   NMTOKEN    # IMPLIED
    nameend  NMTOKEN    # IMPLIED
    spanname NMTOKEN    # IMPLIED
    morerows NMTOKEN    "0"
    colsep   NMTOKEN    # IMPLIED
    rowsep   NMTOKEN    # IMPLIED
    valign   (top | bottom | middle) "top"
    align    (left | right | center | justify)    # IMPLIED
    refapplic IDREF    # IMPLIED
>
<! ELEMENT caption (applic?,capline+)>
<! ATTLIST caption
    colour    (co00 | co01 | co02 | co03 | co04 | co05 | co06 | co07 | co08 | co09 | co10 | co11
| co12 | co13 | co14 | co15 | co16 | co17 | co18 | co19 | co20 | co21 | co22 | co23 | co24 | co25
| co26 | co27 | co28 | co29 | co30 | co31 | co32 | co33 | co34 | co35 | co36 | co37 | co38 | co39
| co40 | co41 | co42 | co43 | co44 | co45 | co46 | co47 | co48 | co49 | co50 | co51 | co52 | co53
| co54 | co55 | co56 | co57 | co58 | co59 | co60 | co61 | co62 | co63 | co64 | co65 | co66 | co67
| co68 | co69 | co70 | co71 | co72 | co73 | co74 | co75 | co76 | co77 | co78 | co79 | co80 | co81
| co82 | co83 | co84 | co85 | co86 | co87 | co88 | co89 | co90 | co91 | co92 | co93 | co94 | co95
| co96 | co97 | co98 | co99) "co09"
    width    CDATA      # IMPLIED
    height   CDATA      # IMPLIED
    sysid    CDATA      # IMPLIED
    align    (left | right | center | justify)    "center"
    toctype  (none | redtoc | comdtoc | ambertoc | greentoc | yellowtoc)    "none"
    type     (primary | secondary)    "primary"
    refapplic IDREF    # IMPLIED
    id      ID        # IMPLIED
    level   NMTOKEN    # IMPLIED
    mark    NMTOKEN    # IMPLIED
    change  (add | delete | modify)    # IMPLIED
    rfc     CDATA      # IMPLIED
>
<! ELEMENT capline (#PCDATA | acroterm)*>
<! ELEMENT captext (#PCDATA | xref | indxflag | change | emphasis | subscript | superscript | refdm |
reftp | acronym | acroterm)*>
<! ATTLIST captext
    level   NMTOKEN    # IMPLIED

```

```

mark      NMTOKEN      # IMPLIED
change    (add | delete | modify)    # IMPLIED
rfc       CDATA        # IMPLIED
>
<(! ELEMENT change ( #PCDATA | ein | cb | parasigdata | quantity | xref | indxflag | change |
emphasis | symbol | subscript | superscript | refdm | reftp | ftnote | ftnref | acronym | acroterm |
capgrp | caption) * )
<(! ATTLIST change
id        ID          # IMPLIED
level     NMTOKEN      # IMPLIED
mark      NMTOKEN      # IMPLIED
change    (add | delete | modify)    # IMPLIED
rfc       CDATA        # IMPLIED
>
<(! ELEMENT emphasis ( #PCDATA | ein | cb | parasigdata | quantity | xref | indxflag | change |
emphasis | symbol | subscript | superscript | refdm | reftp | ftnote | ftnref | acronym | acroterm |
capgrp | caption) * )
<(! ATTLIST emphasis
emph(em01 | em02 | em03 | em04 | em05 | em06 | em07 | em08 | em09 | em10 | em11 | em12 | em13
| em14 | em15 | em16 | em17 | em18 | em19 | em20 | em21 | em22 | em23 | em24 | em25 | em26 | em27
| em28 | em29 | em30 | em31 | em32 | em33 | em34 | em35 | em36 | em37 | em38 | em39 | em40 | em41
| em42 | em43 | em44 | em45 | em46 | em47 | em48 | em49 | em50 | em51 | em52 | em53 | em54 | em55
| em56 | em57 | em58 | em59 | em60 | em61 | em62 | em63 | em64 | em65 | em66 | em67 | em68 | em69
| em70 | em71 | em72 | em73 | em74 | em75 | em76 | em77 | em78 | em79 | em80 | em81 | em82 | em83
| em84 | em85 | em86 | em87 | em88 | em89 | em90 | em91 | em92 | em93 | em94 | em95 | em96 | em97
| em98 | em99) "em01"
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cbaction  (open | close | verif-open | verif-close)    # IMPLIED
checksum  CDATA        # IMPLIED
id        ID          # IMPLIED
level     NMTOKEN      # IMPLIED
mark      NMTOKEN      # IMPLIED
change    (add | delete | modify)    # IMPLIED
rfc       CDATA        # IMPLIED
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| psd12 | psd13 | psd14 | psd15 | psd16 | psd17 | psd18 | psd19 | psd20 | psd21 | psd22 | psd23
| psd24 | psd25 | psd26 | psd27 | psd28 | psd29 | psd30 | psd31 | psd32 | psd33 | psd34 | psd35
| psd36 | psd37 | psd38 | psd39 | psd40 | psd41 | psd42 | psd43 | psd44 | psd45 | psd46 | psd47
| psd48 | psd49 | psd50 | psd51 | psd52 | psd53 | psd54 | psd55 | psd56 | psd57 | psd58 | psd59
| psd60 | psd61 | psd62 | psd63 | psd64 | psd65 | psd66 | psd67 | psd68 | psd69 | psd70 | psd71
| psd72 | psd73 | psd74 | psd75 | psd76 | psd77 | psd78 | psd79 | psd80 | psd81 | psd82 | psd83
| psd84 | psd85 | psd86 | psd87 | psd88 | psd89 | psd90 | psd91 | psd92 | psd93 | psd94 | psd95
| psd96 | psd97 | psd98 | psd99)      # REQUIRED
>
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<(! ATTLIST quantity
qtytype  (qty01 | qty02 | qty03 | qty04 | qty05 | qty06 | qty07 | qty08 | qty09 | qty10 | qty11
| qty12 | qty13 | qty14 | qty15 | qty16 | qty17 | qty18 | qty19 | qty20 | qty21 | qty22 | qty23
| qty24 | qty25 | qty26 | qty27 | qty28 | qty29 | qty30 | qty31 | qty32 | qty33 | qty34 | qty35
| qty36 | qty37 | qty38 | qty39 | qty40 | qty41 | qty42 | qty43 | qty44 | qty45 | qty46 | qty47
| qty48 | qty49 | qty50 | qty51 | qty52 | qty53 | qty54 | qty55 | qty56 | qty57 | qty58 | qty59
| qty60 | qty61 | qty62 | qty63 | qty64 | qty65 | qty66 | qty67 | qty68 | qty69 | qty70 | qty71
| qty72 | qty73 | qty74 | qty75 | qty76 | qty77 | qty78 | qty79 | qty80 | qty81 | qty82 | qty83

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| qty84 | qty85 | qty86 | qty87 | qty88 | qty89 | qty90 | qty91 | qty92 | qty93 | qty94 | qty95
| qty96 | qty97 | qty98 | qty99)    # IMPLIED
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| cc83 | cc84 | cc85 | cc86 | cc87 | cc88 | cc89 | cc90 | cc91 | cc92 | cc93 | cc94 | cc95 | cc96
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| cv83 | cv84 | cv85 | cv86 | cv87 | cv88 | cv89 | cv90 | cv91 | cv92 | cv93 | cv94 | cv95 | cv96
| cv97 | cv98 | cv99) # IMPLIED
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| 96 | 97 | 98 | 99)    # IMPLIED
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| 96 | 97 | 98 | 99)      # IMPLIED
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| cv97 | cv98 | cv99)      # IMPLIED
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| 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 |
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| cc97 | cc98 | cc99)    # IMPLIED
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| dt26 | dt27 | dt28 | dt29 | dt30 | dt31 | dt32 | dt33 | dt34 | dt35 | dt36 | dt37 | dt38 | dt39
| dt40 | dt41 | dt42 | dt43 | dt44 | dt45 | dt46 | dt47 | dt48 | dt49 | dt50 | dt51 | dt52 | dt53
| dt54 | dt55 | dt56 | dt57 | dt58 | dt59 | dt60 | dt61 | dt62 | dt63 | dt64 | dt65 | dt66 | dt67
| dt68 | dt69 | dt70 | dt71 | dt72 | dt73 | dt74 | dt75 | dt76 | dt77 | dt78 | dt79 | dt80 | dt81
| dt82 | dt83 | dt84 | dt85 | dt86 | dt87 | dt88 | dt89 | dt90 | dt91 | dt92 | dt93 | dt94 | dt95
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| cv27 | cv28 | cv29 | cv30 | cv31 | cv32 | cv33 | cv34 | cv35 | cv36 | cv37 | cv38 | cv39 | cv40
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| cv97 | cv98 | cv99) # IMPLIED
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rfc CDATA # IMPLIED
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| cc97 | cc98 | cc99) # IMPLIED
caveat (cv01 | cv02 | cv03 | cv04 | cv05 | cv06 | cv07 | cv08 | cv09 | cv10 | cv11 | cv12
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  dotline (dot | line | none) "dot"
  ordered (on | off) "on"
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| sk13 | sk14 | sk15 | sk16 | sk17 | sk18 | sk19 | sk20 | sk21 | sk22 | sk23 | sk24 | sk25 | sk26
| sk27 | sk28 | sk29 | sk30 | sk31 | sk32 | sk33 | sk34 | sk35 | sk36 | sk37 | sk38 | sk39 | sk40
| sk41 | sk42 | sk43 | sk44 | sk45 | sk46 | sk47 | sk48 | sk49 | sk50 | sk51 | sk52 | sk53 | sk54
| sk55 | sk56 | sk57 | sk58 | sk59 | sk60 | sk61 | sk62 | sk63 | sk64 | sk65 | sk66 | sk67 | sk68
| sk69 | sk70 | sk71 | sk72 | sk73 | sk74 | sk75 | sk76 | sk77 | sk78 | sk79 | sk80 | sk81 | sk82
| sk83 | sk84 | sk85 | sk86 | sk87 | sk88 | sk89 | sk90 | sk91 | sk92 | sk93 | sk94 | sk95 | sk96
| sk97 | sk98 | sk99) # IMPLIED
  id ID # IMPLIED
  level NMTOKEN # IMPLIED
  mark NMTOKEN # IMPLIED
  change (add | delete | modify) # IMPLIED
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  class (01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17
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| 96 | 97 | 98 | 99) # IMPLIED
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| cc27 | cc28 | cc29 | cc30 | cc31 | cc32 | cc33 | cc34 | cc35 | cc36 | cc37 | cc38 | cc39 | cc40
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| cc97 | cc98 | cc99) # IMPLIED
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| cv97 | cv98 | cv99) # IMPLIED
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| cv27 | cv28 | cv29 | cv30 | cv31 | cv32 | cv33 | cv34 | cv35 | cv36 | cv37 | cv38 | cv39 | cv40
| cv41 | cv42 | cv43 | cv44 | cv45 | cv46 | cv47 | cv48 | cv49 | cv50 | cv51 | cv52 | cv53 | cv54
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| cv69 | cv70 | cv71 | cv72 | cv73 | cv74 | cv75 | cv76 | cv77 | cv78 | cv79 | cv80 | cv81 | cv82
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| cv97 | cv98 | cv99)    # IMPLIED
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| cc97 | cc98 | cc99)    # IMPLIED
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| cv69 | cv70 | cv71 | cv72 | cv73 | cv74 | cv75 | cv76 | cv77 | cv78 | cv79 | cv80 | cv81 | cv82
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| cv97 | cv98 | cv99)    # IMPLIED

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| sk27 | sk28 | sk29 | sk30 | sk31 | sk32 | sk33 | sk34 | sk35 | sk36 | sk37 | sk38 | sk39 | sk40
| sk41 | sk42 | sk43 | sk44 | sk45 | sk46 | sk47 | sk48 | sk49 | sk50 | sk51 | sk52 | sk53 | sk54
| sk55 | sk56 | sk57 | sk58 | sk59 | sk60 | sk61 | sk62 | sk63 | sk64 | sk65 | sk66 | sk67 | sk68
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| cc27 | cc28 | cc29 | cc30 | cc31 | cc32 | cc33 | cc34 | cc35 | cc36 | cc37 | cc38 | cc39 | cc40
| cc41 | cc42 | cc43 | cc44 | cc45 | cc46 | cc47 | cc48 | cc49 | cc50 | cc51 | cc52 | cc53 | cc54
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| cv97 | cv98 | cv99) # IMPLIED
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| cc41 | cc42 | cc43 | cc44 | cc45 | cc46 | cc47 | cc48 | cc49 | cc50 | cc51 | cc52 | cc53 | cc54
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    class    (01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17
| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56
| 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 |
76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95
| 96 | 97 | 98 | 99)    # IMPLIED
    commcls    (cc01 | cc02 | cc03 | cc04 | cc05 | cc06 | cc07 | cc08 | cc09 | cc10 | cc11 | cc12
| cc13 | cc14 | cc15 | cc16 | cc17 | cc18 | cc19 | cc20 | cc21 | cc22 | cc23 | cc24 | cc25 | cc26
| cc27 | cc28 | cc29 | cc30 | cc31 | cc32 | cc33 | cc34 | cc35 | cc36 | cc37 | cc38 | cc39 | cc40
| cc41 | cc42 | cc43 | cc44 | cc45 | cc46 | cc47 | cc48 | cc49 | cc50 | cc51 | cc52 | cc53 | cc54
| cc55 | cc56 | cc57 | cc58 | cc59 | cc60 | cc61 | cc62 | cc63 | cc64 | cc65 | cc66 | cc67 | cc68
| cc69 | cc70 | cc71 | cc72 | cc73 | cc74 | cc75 | cc76 | cc77 | cc78 | cc79 | cc80 | cc81 | cc82
| cc83 | cc84 | cc85 | cc86 | cc87 | cc88 | cc89 | cc90 | cc91 | cc92 | cc93 | cc94 | cc95 | cc96
| cc97 | cc98 | cc99)    # IMPLIED
    caveat    (cv01 | cv02 | cv03 | cv04 | cv05 | cv06 | cv07 | cv08 | cv09 | cv10 | cv11 | cv12
| cv13 | cv14 | cv15 | cv16 | cv17 | cv18 | cv19 | cv20 | cv21 | cv22 | cv23 | cv24 | cv25 | cv26
| cv27 | cv28 | cv29 | cv30 | cv31 | cv32 | cv33 | cv34 | cv35 | cv36 | cv37 | cv38 | cv39 | cv40
| cv41 | cv42 | cv43 | cv44 | cv45 | cv46 | cv47 | cv48 | cv49 | cv50 | cv51 | cv52 | cv53 | cv54
| cv55 | cv56 | cv57 | cv58 | cv59 | cv60 | cv61 | cv62 | cv63 | cv64 | cv65 | cv66 | cv67 | cv68
| cv69 | cv70 | cv71 | cv72 | cv73 | cv74 | cv75 | cv76 | cv77 | cv78 | cv79 | cv80 | cv81 | cv82
| cv83 | cv84 | cv85 | cv86 | cv87 | cv88 | cv89 | cv90 | cv91 | cv92 | cv93 | cv94 | cv95 | cv96
| cv97 | cv98 | cv99)    # IMPLIED
)
<! ELEMENT subpara4 ((((((applic?,title?)))?),(((warning *,caution *),(((note | para) | (figure |
multimedia | foldout | table))) *),drill?)))?),subpara5 *))
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    id    ID    # IMPLIED
    level    NMTOKEN    # IMPLIED
    mark    NMTOKEN    # IMPLIED
    change    (add | delete | modify)    # IMPLIED
    rfc    CDATA    # IMPLIED
    class    (01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17
| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56

```

```

| 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 |
76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 |
| 96 | 97 | 98 | 99) # IMPLIED
commcls (cc01 | cc02 | cc03 | cc04 | cc05 | cc06 | cc07 | cc08 | cc09 | cc10 | cc11 | cc12
| cc13 | cc14 | cc15 | cc16 | cc17 | cc18 | cc19 | cc20 | cc21 | cc22 | cc23 | cc24 | cc25 | cc26
| cc27 | cc28 | cc29 | cc30 | cc31 | cc32 | cc33 | cc34 | cc35 | cc36 | cc37 | cc38 | cc39 | cc40
| cc41 | cc42 | cc43 | cc44 | cc45 | cc46 | cc47 | cc48 | cc49 | cc50 | cc51 | cc52 | cc53 | cc54
| cc55 | cc56 | cc57 | cc58 | cc59 | cc60 | cc61 | cc62 | cc63 | cc64 | cc65 | cc66 | cc67 | cc68
| cc69 | cc70 | cc71 | cc72 | cc73 | cc74 | cc75 | cc76 | cc77 | cc78 | cc79 | cc80 | cc81 | cc82
| cc83 | cc84 | cc85 | cc86 | cc87 | cc88 | cc89 | cc90 | cc91 | cc92 | cc93 | cc94 | cc95 | cc96
| cc97 | cc98 | cc99) # IMPLIED
caveat (cv01 | cv02 | cv03 | cv04 | cv05 | cv06 | cv07 | cv08 | cv09 | cv10 | cv11 | cv12
| cv13 | cv14 | cv15 | cv16 | cv17 | cv18 | cv19 | cv20 | cv21 | cv22 | cv23 | cv24 | cv25 | cv26
| cv27 | cv28 | cv29 | cv30 | cv31 | cv32 | cv33 | cv34 | cv35 | cv36 | cv37 | cv38 | cv39 | cv40
| cv41 | cv42 | cv43 | cv44 | cv45 | cv46 | cv47 | cv48 | cv49 | cv50 | cv51 | cv52 | cv53 | cv54
| cv55 | cv56 | cv57 | cv58 | cv59 | cv60 | cv61 | cv62 | cv63 | cv64 | cv65 | cv66 | cv67 | cv68
| cv69 | cv70 | cv71 | cv72 | cv73 | cv74 | cv75 | cv76 | cv77 | cv78 | cv79 | cv80 | cv81 | cv82
| cv83 | cv84 | cv85 | cv86 | cv87 | cv88 | cv89 | cv90 | cv91 | cv92 | cv93 | cv94 | cv95 | cv96
| cv97 | cv98 | cv99) # IMPLIED
>
<! ELEMENT subpara5 ((((((applic?,title?)))?),(((warning *,caution *),(((note | para) | (figure |
multimedia | foldout | table)) *),drill?)))?),subpara6 *))
<! ATTLIST subpara5
refapplic IDREF # IMPLIED
id ID # IMPLIED
level NMTOKEN # IMPLIED
mark NMTOKEN # IMPLIED
change (add | delete | modify) # IMPLIED
rfc CDATA # IMPLIED
class (01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17
| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56
| 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 |
76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95
| 96 | 97 | 98 | 99) # IMPLIED
commcls (cc01 | cc02 | cc03 | cc04 | cc05 | cc06 | cc07 | cc08 | cc09 | cc10 | cc11 | cc12
| cc13 | cc14 | cc15 | cc16 | cc17 | cc18 | cc19 | cc20 | cc21 | cc22 | cc23 | cc24 | cc25 | cc26
| cc27 | cc28 | cc29 | cc30 | cc31 | cc32 | cc33 | cc34 | cc35 | cc36 | cc37 | cc38 | cc39 | cc40
| cc41 | cc42 | cc43 | cc44 | cc45 | cc46 | cc47 | cc48 | cc49 | cc50 | cc51 | cc52 | cc53 | cc54
| cc55 | cc56 | cc57 | cc58 | cc59 | cc60 | cc61 | cc62 | cc63 | cc64 | cc65 | cc66 | cc67 | cc68
| cc69 | cc70 | cc71 | cc72 | cc73 | cc74 | cc75 | cc76 | cc77 | cc78 | cc79 | cc80 | cc81 | cc82
| cc83 | cc84 | cc85 | cc86 | cc87 | cc88 | cc89 | cc90 | cc91 | cc92 | cc93 | cc94 | cc95 | cc96
| cc97 | cc98 | cc99) # IMPLIED
caveat (cv01 | cv02 | cv03 | cv04 | cv05 | cv06 | cv07 | cv08 | cv09 | cv10 | cv11 | cv12
| cv13 | cv14 | cv15 | cv16 | cv17 | cv18 | cv19 | cv20 | cv21 | cv22 | cv23 | cv24 | cv25 | cv26
| cv27 | cv28 | cv29 | cv30 | cv31 | cv32 | cv33 | cv34 | cv35 | cv36 | cv37 | cv38 | cv39 | cv40
| cv41 | cv42 | cv43 | cv44 | cv45 | cv46 | cv47 | cv48 | cv49 | cv50 | cv51 | cv52 | cv53 | cv54
| cv55 | cv56 | cv57 | cv58 | cv59 | cv60 | cv61 | cv62 | cv63 | cv64 | cv65 | cv66 | cv67 | cv68
| cv69 | cv70 | cv71 | cv72 | cv73 | cv74 | cv75 | cv76 | cv77 | cv78 | cv79 | cv80 | cv81 | cv82
| cv83 | cv84 | cv85 | cv86 | cv87 | cv88 | cv89 | cv90 | cv91 | cv92 | cv93 | cv94 | cv95 | cv96
| cv97 | cv98 | cv99) # IMPLIED
>
<! ELEMENT subpara6 ((((((applic?,title?)))?),(((warning *,caution *),(((note | para) | (figure |
multimedia | foldout | table)) *),drill?)))?),subpara7 *))
<! ATTLIST subpara6
refapplic IDREF # IMPLIED
id ID # IMPLIED
level NMTOKEN # IMPLIED
mark NMTOKEN # IMPLIED
change (add | delete | modify) # IMPLIED

```

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| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56
| 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 |
76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95
| 96 | 97 | 98 | 99) # IMPLIED
    commcls  (cc01 | cc02 | cc03 | cc04 | cc05 | cc06 | cc07 | cc08 | cc09 | cc10 | cc11 | cc12
| cc13 | cc14 | cc15 | cc16 | cc17 | cc18 | cc19 | cc20 | cc21 | cc22 | cc23 | cc24 | cc25 | cc26
| cc27 | cc28 | cc29 | cc30 | cc31 | cc32 | cc33 | cc34 | cc35 | cc36 | cc37 | cc38 | cc39 | cc40
| cc41 | cc42 | cc43 | cc44 | cc45 | cc46 | cc47 | cc48 | cc49 | cc50 | cc51 | cc52 | cc53 | cc54
| cc55 | cc56 | cc57 | cc58 | cc59 | cc60 | cc61 | cc62 | cc63 | cc64 | cc65 | cc66 | cc67 | cc68
| cc69 | cc70 | cc71 | cc72 | cc73 | cc74 | cc75 | cc76 | cc77 | cc78 | cc79 | cc80 | cc81 | cc82
| cc83 | cc84 | cc85 | cc86 | cc87 | cc88 | cc89 | cc90 | cc91 | cc92 | cc93 | cc94 | cc95 | cc96
| cc97 | cc98 | cc99) # IMPLIED
    caveat   (cv01 | cv02 | cv03 | cv04 | cv05 | cv06 | cv07 | cv08 | cv09 | cv10 | cv11 | cv12
| cv13 | cv14 | cv15 | cv16 | cv17 | cv18 | cv19 | cv20 | cv21 | cv22 | cv23 | cv24 | cv25 | cv26
| cv27 | cv28 | cv29 | cv30 | cv31 | cv32 | cv33 | cv34 | cv35 | cv36 | cv37 | cv38 | cv39 | cv40
| cv41 | cv42 | cv43 | cv44 | cv45 | cv46 | cv47 | cv48 | cv49 | cv50 | cv51 | cv52 | cv53 | cv54
| cv55 | cv56 | cv57 | cv58 | cv59 | cv60 | cv61 | cv62 | cv63 | cv64 | cv65 | cv66 | cv67 | cv68
| cv69 | cv70 | cv71 | cv72 | cv73 | cv74 | cv75 | cv76 | cv77 | cv78 | cv79 | cv80 | cv81 | cv82
| cv83 | cv84 | cv85 | cv86 | cv87 | cv88 | cv89 | cv90 | cv91 | cv92 | cv93 | cv94 | cv95 | cv96
| cv97 | cv98 | cv99) # IMPLIED
)
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multimedia | foldout | table))*) ,drill?)))?)
<! ATTLIST subpara7
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    id ID      # IMPLIED
    level NMTOKEN      # IMPLIED
    mark NMTOKEN      # IMPLIED
    change (add | delete | modify)      # IMPLIED
    rfc      CDATA      # IMPLIED
    class    (01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17
| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56
| 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 |
76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95
| 96 | 97 | 98 | 99) # IMPLIED
    commcls  (cc01 | cc02 | cc03 | cc04 | cc05 | cc06 | cc07 | cc08 | cc09 | cc10 | cc11 | cc12
| cc13 | cc14 | cc15 | cc16 | cc17 | cc18 | cc19 | cc20 | cc21 | cc22 | cc23 | cc24 | cc25 | cc26
| cc27 | cc28 | cc29 | cc30 | cc31 | cc32 | cc33 | cc34 | cc35 | cc36 | cc37 | cc38 | cc39 | cc40
| cc41 | cc42 | cc43 | cc44 | cc45 | cc46 | cc47 | cc48 | cc49 | cc50 | cc51 | cc52 | cc53 | cc54
| cc55 | cc56 | cc57 | cc58 | cc59 | cc60 | cc61 | cc62 | cc63 | cc64 | cc65 | cc66 | cc67 | cc68
| cc69 | cc70 | cc71 | cc72 | cc73 | cc74 | cc75 | cc76 | cc77 | cc78 | cc79 | cc80 | cc81 | cc82
| cc83 | cc84 | cc85 | cc86 | cc87 | cc88 | cc89 | cc90 | cc91 | cc92 | cc93 | cc94 | cc95 | cc96
| cc97 | cc98 | cc99) # IMPLIED
    caveat   (cv01 | cv02 | cv03 | cv04 | cv05 | cv06 | cv07 | cv08 | cv09 | cv10 | cv11 | cv12
| cv13 | cv14 | cv15 | cv16 | cv17 | cv18 | cv19 | cv20 | cv21 | cv22 | cv23 | cv24 | cv25 | cv26
| cv27 | cv28 | cv29 | cv30 | cv31 | cv32 | cv33 | cv34 | cv35 | cv36 | cv37 | cv38 | cv39 | cv40
| cv41 | cv42 | cv43 | cv44 | cv45 | cv46 | cv47 | cv48 | cv49 | cv50 | cv51 | cv52 | cv53 | cv54
| cv55 | cv56 | cv57 | cv58 | cv59 | cv60 | cv61 | cv62 | cv63 | cv64 | cv65 | cv66 | cv67 | cv68
| cv69 | cv70 | cv71 | cv72 | cv73 | cv74 | cv75 | cv76 | cv77 | cv78 | cv79 | cv80 | cv81 | cv82
| cv83 | cv84 | cv85 | cv86 | cv87 | cv88 | cv89 | cv90 | cv91 | cv92 | cv93 | cv94 | cv95 | cv96
| cv97 | cv98 | cv99) # IMPLIED
)

```

## B.2 描述信息 DTD

本文件包含了描述内容 DTD。它标识了所有与描述信息有关的元素和它们之间的关系。

```

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<! ATTLIST dmodule
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    % RDFDCATT;
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<! ELEMENT dmaddres (dmceextension?,dmc,dmttitle,issno,issdate)>
<! ELEMENT dmceextension (dmeproducer,dmecode)>
<! ELEMENT dmeproducer (#PCDATA)>
<! ELEMENT dmecode (#PCDATA)>
<! ELEMENT dmc (age | avee)>
<! ELEMENT age (modelic,supeqvc,ecscs,eidc,cidc,discode,discodev,incode,incodev,itemloc)>
<! ELEMENT modelic (#PCDATA)>
<! ELEMENT supeqvc (#PCDATA)>
<! ELEMENT ecscs (#PCDATA)>
<! ELEMENT eidc (#PCDATA)>
<! ELEMENT cidc (#PCDATA)>
<! ELEMENT discode (#PCDATA)>
<! ELEMENT discodev (#PCDATA)>
<! ELEMENT incode (#PCDATA)>
<! ELEMENT incodev (#PCDATA)>
<! ELEMENT itemloc (#PCDATA)>
<! ELEMENT avee (modelic, sdc, chapnum, section, subsect, subject, discode, discodev, incode, incodev,
itemloc)>
<! ELEMENT sdc (#PCDATA)>
<! ELEMENT chapnum (#PCDATA)>
<! ELEMENT section (#PCDATA)>
<! ELEMENT subsect (#PCDATA)>
<! ELEMENT subject (#PCDATA)>
<! ELEMENT dmttitle (techname,infoname?)>
<! ELEMENT techname (#PCDATA)>
<! ELEMENT infoname (#PCDATA)>
<! ELEMENT issno EMPTY>
<! ATTLIST issno
    issno NMTOKEN # REQUIRED
    inwork NMTOKEN # IMPLIED
    type (new | changed | deleted | revised | status | rinstat-changed | rinstat-revised |
rinstat-status) "new"
>
<! ELEMENT issdate EMPTY>
<! ATTLIST issdate
    year NMTOKEN # REQUIRED
    month NMTOKEN # REQUIRED
    day NMTOKEN # REQUIRED
>
<! ELEMENT srcdmaddres (dmceextension?,dmc,dmttitle,issno,issdate)>
<! ELEMENT status (security, datarest *, rpc, orig, applic, inlineapplics?, brexref, qa + , ((ein) * ), rfu *,
remarks * )>
<! ATTLIST status
    id ID # IMPLIED
>
<! ELEMENT security EMPTY>
<! ATTLIST security
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| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56
| 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 |
76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95
| 96 | 97 | 98 | 99) # REQUIRED

```

```

      commcls (cc01 | cc02 | cc03 | cc04 | cc05 | cc06 | cc07 | cc08 | cc09 | cc10 | cc11 | cc12
| cc13 | cc14 | cc15 | cc16 | cc17 | cc18 | cc19 | cc20 | cc21 | cc22 | cc23 | cc24 | cc25 | cc26
| cc27 | cc28 | cc29 | cc30 | cc31 | cc32 | cc33 | cc34 | cc35 | cc36 | cc37 | cc38 | cc39 | cc40
| cc41 | cc42 | cc43 | cc44 | cc45 | cc46 | cc47 | cc48 | cc49 | cc50 | cc51 | cc52 | cc53 | cc54
| cc55 | cc56 | cc57 | cc58 | cc59 | cc60 | cc61 | cc62 | cc63 | cc64 | cc65 | cc66 | cc67 | cc68
| cc69 | cc70 | cc71 | cc72 | cc73 | cc74 | cc75 | cc76 | cc77 | cc78 | cc79 | cc80 | cc81 | cc82
| cc83 | cc84 | cc85 | cc86 | cc87 | cc88 | cc89 | cc90 | cc91 | cc92 | cc93 | cc94 | cc95 | cc96
| cc97 | cc98 | cc99) # IMPLIED
      caveat (cv01 | cv02 | cv03 | cv04 | cv05 | cv06 | cv07 | cv08 | cv09 | cv10 | cv11 | cv12
| cv13 | cv14 | cv15 | cv16 | cv17 | cv18 | cv19 | cv20 | cv21 | cv22 | cv23 | cv24 | cv25 | cv26
| cv27 | cv28 | cv29 | cv30 | cv31 | cv32 | cv33 | cv34 | cv35 | cv36 | cv37 | cv38 | cv39 | cv40
| cv41 | cv42 | cv43 | cv44 | cv45 | cv46 | cv47 | cv48 | cv49 | cv50 | cv51 | cv52 | cv53 | cv54
| cv55 | cv56 | cv57 | cv58 | cv59 | cv60 | cv61 | cv62 | cv63 | cv64 | cv65 | cv66 | cv67 | cv68
| cv69 | cv70 | cv71 | cv72 | cv73 | cv74 | cv75 | cv76 | cv77 | cv78 | cv79 | cv80 | cv81 | cv82
| cv83 | cv84 | cv85 | cv86 | cv87 | cv88 | cv89 | cv90 | cv91 | cv92 | cv93 | cv94 | cv95 | cv96
| cv97 | cv98 | cv99) # IMPLIED
    )
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<| ATTLIST datarest
      refapplic IDREF # IMPLIED
      id ID # IMPLIED
      level NMTOKEN # IMPLIED
      mark NMTOKEN # IMPLIED
      change (add | delete | modify) # IMPLIED
      rfc CDATA # IMPLIED
    )
<| ELEMENT applic (type?,model *)>
<| ATTLIST applic
      applicconf (allowed | built | designed | installed | manufactured | supported)
      # IMPLIED
      id ID # IMPLIED
      level NMTOKEN # IMPLIED
      mark NMTOKEN # IMPLIED
      change (add | delete | modify) # IMPLIED
      rfc CDATA # IMPLIED
    )
<| ELEMENT type (#PCDATA)>
<| ELEMENT model (version *,((csnref | (mfc) *),maintlevel?,techconds *,opconds *))>
<| ATTLIST model
      model CDATA # REQUIRED
    )
<| ELEMENT version (versrank *)>
<| ATTLIST version
      version CDATA # REQUIRED
      id ID # IMPLIED
    )
<| ELEMENT versrank ((single | range) +)>
<| ATTLIST versrank
      verstatus CDATA # IMPLIED
      id ID # IMPLIED
      level NMTOKEN # IMPLIED
      mark NMTOKEN # IMPLIED
      change (add | delete | modify) # IMPLIED
      rfc CDATA # IMPLIED
    )
<| ELEMENT single (#PCDATA)>
<| ELEMENT range EMPTY>
<| ATTLIST range
      from CDATA # REQUIRED
      to CDATA # REQUIRED

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  refisn CDATA #IMPLIED
  refipp CDATA #IMPLIED
  refrpc CDATA #IMPLIED
  id ID #IMPLIED
  level NMTOKEN #IMPLIED
  mark NMTOKEN #IMPLIED
  change (add | delete | modify) #IMPLIED
  rfc CDATA #IMPLIED
  % XLINKATT2;
>
<! ELEMENT mfc (#PCDATA)>
<! ATTLIST mfc
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  level NMTOKEN #IMPLIED
  mark NMTOKEN #IMPLIED
  change (add | delete | modify) #IMPLIED
  rfc CDATA #IMPLIED
>
<! ELEMENT maintlevel (mntlvl+)>
<! ELEMENT mntlvl EMPTY>
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  mntlvl (m101 | m102 | m103 | m104 | m105 | m106 | m107 | m108 | m109 | m110 | m111 | m112
| m113 | m114 | m115 | m116 | m117 | m118 | m119 | m120 | m121 | m122 | m123 | m124 | m125 | m126
| m127 | m128 | m129 | m130 | m131 | m132 | m133 | m134 | m135 | m136 | m137 | m138 | m139 | m140
| m141 | m142 | m143 | m144 | m145 | m146 | m147 | m148 | m149 | m150 | m151 | m152 | m153 | m154
| m155 | m156 | m157 | m158 | m159 | m160 | m161 | m162 | m163 | m164 | m165 | m166 | m167 | m168
| m169 | m170 | m171 | m172 | m173 | m174 | m175 | m176 | m177 | m178 | m179 | m180 | m181 | m182
| m183 | m184 | m185 | m186 | m187 | m188 | m189 | m190 | m191 | m192 | m193 | m194 | m195 | m196
| m197 | m198 | m199) #REQUIRED
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<! ATTLIST techconds
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  level NMTOKEN #IMPLIED
  mark NMTOKEN #IMPLIED
  change (add | delete | modify) #IMPLIED
  rfc CDATA #IMPLIED
>
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<! ATTLIST textual-desc
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  level NMTOKEN #IMPLIED
  mark NMTOKEN #IMPLIED
  change (add | delete | modify) #IMPLIED
  rfc CDATA #IMPLIED
>
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condtitle?)),scheduled?,embodied?))>
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| tc13 | tc14 | tc15 | tc16 | tc17 | tc18 | tc19 | tc20 | tc21 | tc22 | tc23 | tc24 | tc25 | tc26
| tc27 | tc28 | tc29 | tc30 | tc31 | tc32 | tc33 | tc34 | tc35 | tc36 | tc37 | tc38 | tc39 | tc40
| tc41 | tc42 | tc43 | tc44 | tc45 | tc46 | tc47 | tc48 | tc49 | tc50 | tc51 | tc52 | tc53 | tc54
| tc55 | tc56 | tc57 | tc58 | tc59 | tc60 | tc61 | tc62 | tc63 | tc64 | tc65 | tc66 | tc67 | tc68
| tc69 | tc70 | tc71 | tc72 | tc73 | tc74 | tc75 | tc76 | tc77 | tc78 | tc79 | tc80 | tc81 | tc82
| tc83 | tc84 | tc85 | tc86 | tc87 | tc88 | tc89 | tc90 | tc91 | tc92 | tc93 | tc94 | tc95 | tc96

```