



# **MSR Engineering Documentation (MEDOC) Elements and attributes of MSRFMEA.DTD**

**Scope: Failure Mode and Effects Analysis**

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## Abstract

This is a reference document for *MSRFMEA DTD* describing all elements.  
*MSRFMEA DTD* is part of the MSR development documentation MEDOC.

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## Introduction

Companies

### MSR MEDOC [MEDOC]

Name Roles	Departement	Address	Contact
Dipl.-Ing.(FH) Uwe B- less			
Dipl.-Inform. Helmut Gengenbach			
Dipl. Ing. Eckard Jakobi			
Dipl.-Ing. Herbert K- lein			
Dipl. Ing. Oliver Mar- cks			
Dipl.-Inform. Peter Rauleder			
Dipl.-Ing. Martin Trin- schek			
Dipl.-Ing. Bernhard Weichel			
Roman Reimer			

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Document Part	Editor			
	Company	Version	State	Remarks
2002-02-07 <a href="#">For details refer to nr. 1, Page 183</a>	Roman Reimer			
	MEDOC	5	RD	

# 1 How to read this document

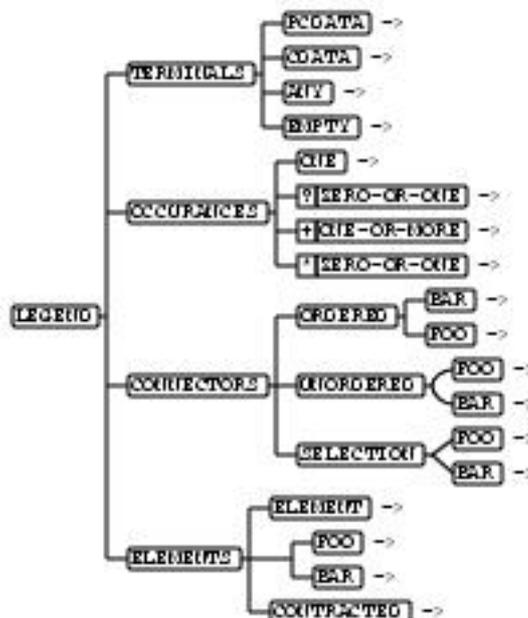
## The following conventions apply

This document is written using *MSRREP DTD*. The following conventions apply to this document:

- <msrsw>** SGML elements are noted as technical term **[type]=SGMLTAG**.
- [type]** SGML attributes are noted as technical term **[type]=SGML-attribute**.
- sgml-attribute* Values of SGML attributes or discrete values for elements are noted as technical term **[type]=code**
- ASAP2* The considered languages resp. DTDs are marked as technical term **[type]=product**.
- ASAP* The committees are noted as **[type]=organization**
- ECU* Objects in general are marked as technical terms **[type]=other**. This might be automotive equipments general objects such as variables etc.

## Graphical conventions used in DTD diagrams

The structure of DTDs is shown in the MSR document as DTD diagrams (see [Figure 1 convention in DTD diagrams p. 24](#)).



legend.bmp

Figure 1: convention in DTD diagrams

	Elements and attributes of MSRFMEA.DTD MSRFMEA-EADOC	Page: 25/191 Date: 2002-02-07 State: RD
	Chapter: How to read this document	

The meaning of the symbols is:

PCDATA	<b>Processable Character Data (PCDATA)</b> Data that consists of zero or more characters of both text and markup. PCDATA is a declared content keyword. PCDATA is used to indicate that all markup delimiters defined in the SGML declaration will be recognized by the parser as markup in the given element rather than data characters.
RCDATA	<b>Replaceable Character Data (RCDATA)</b> is data that consists of zero or more characters, in which references to substitutions are not recognized (i.e. RCDATA may contain text and entity references, but no sub-elements). See also: CDATA PCDATA.
CDATA	<b>Character Data (CDATA)</b> consists of zero or more text characters, where no markup of any kind is recognized. CDATA is an SGML term. Note that character references are allowed in a CDATA entity (substitution) but not in CDATA content.
ANY	a terminal type indicating that the object may contain text or any element defined in the model.
EMPTY	a terminal type keyword used to indicate that there is no data (i.e. no content, sub-elements or end-tags) for the object allowed in the document instance. This keyword is often used to describe elements that are placeholders or are pointers to external or system-generated data.
One	indicates that the element or the element group occurs exactly once
ZERO-OR-ONE	indicates that the element or the element group is optional
ONE-OR-MORE	indicates that the element or the element group occurs multiple times but at least once
ZERO-OR-MORE	indicates that the element or the element group occurs multiple times but also can be missed (optional)
ORDERED	a connector used to specify that the sibling objects must appear in the document in the order shown in the model
UNORDERED	a connector used to specify that the sibling objects can appear in any order in the document.
SELECTION	a connector used to specify that only one of the sibling objects can appear in the document.
ELEMENT	indicates a single SGML structure element
COLLAPSED	indicates, that the content of the element is not displayed here

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## 2 Allgemeine Projektdaten

# 1 ABS ... ADMIN-DATA

## 1.1 ABS

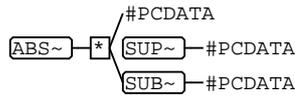


Figure 2: DTD-diagram for ABS

Child elements **<sup>** **<sub>**  
parent elements **<prm-char>**

Table 1: Attributes for ABS

Name	Type	Class	Value	Remark
[S]	CDATA	implied		
[T]	CDATA	implied		

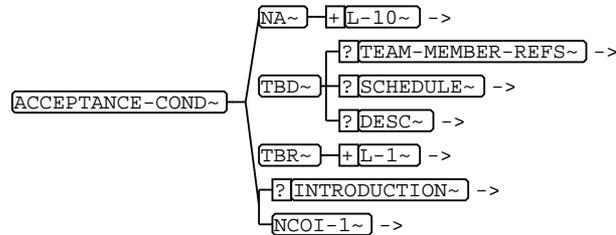
Description Absolute value for parameter characteristics. See parameter model (**<sw-prm>**).

Example

```

prm
  long-namelong designation/long-name
  short-nameshort designation/short-name
  prm-char
    abs10/abs
    tol5tol
    unitC/unit
  /prm-char
/prm
prm
  long-namelong designation/long-name
  short-nameshort designation/short-name
  prm-char
    min0/min
    typ5typ
    max0/max
    unitC/unit
  /prm-char
/prm
  
```

## 1.2 ACCEPTANCE-COND



images/ACCEPTANCE-COND.bmp

**Figure 3: DTD-diagram for ACCEPTANCE-COND**

Child elements **<na> <tbd> <tbr> <introduction> <ncoi-1>**

parent elements **<general-project-data>**

**Table 2: Attributes for ACCEPTANCE-COND**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description This element contains a description of the acceptance conditions of this project.

### 1.3 ADD-SPEC

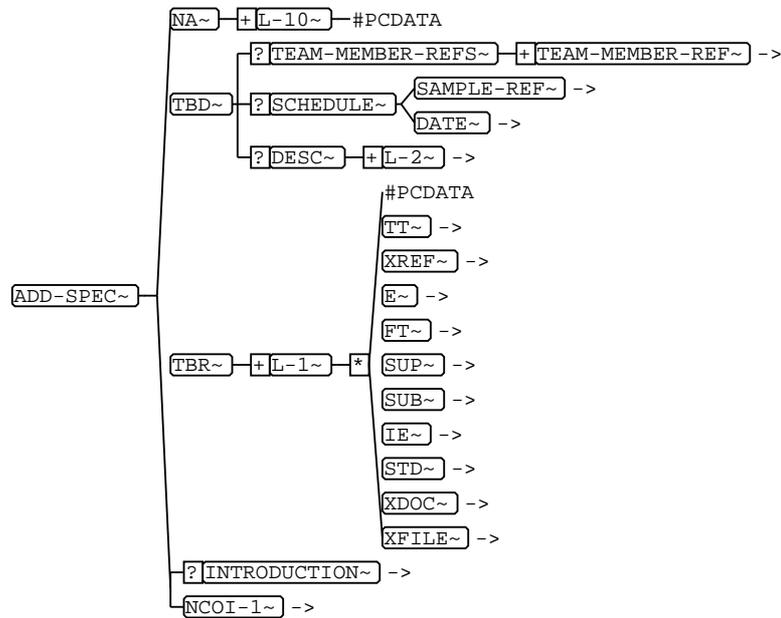


Figure 4: DTD-diagram for ADD-SPEC

Child elements <na> <tbd> <tbr> <introduction> <ncoi-1>

parent elements <general-project-data>

Table 3: Attributes for ADD-SPEC

Name	Type	Class	Value	Remark
[S]	CDATA	implied		
[T]	CDATA	implied		

Description This element allows to give additional specifications for which no explicit structure exists. This element usually enforces another chapter in printed material. In opposite to <add-info>, <add-spec> is used as a substitute if no structure exists for the topic, while <add-info> is used where an existing structure is not appropriate.

Example

## 1.4 ADDRESS

`ADDRESS~` — #PCDATA

Figure 5: DTD-diagram for ADDRESS

Child elements none

parent elements `<team-member>`

Table 4: Attributes for ADDRESS

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Definition of the address of a team member.

## 1.5 ADMIN-DATA

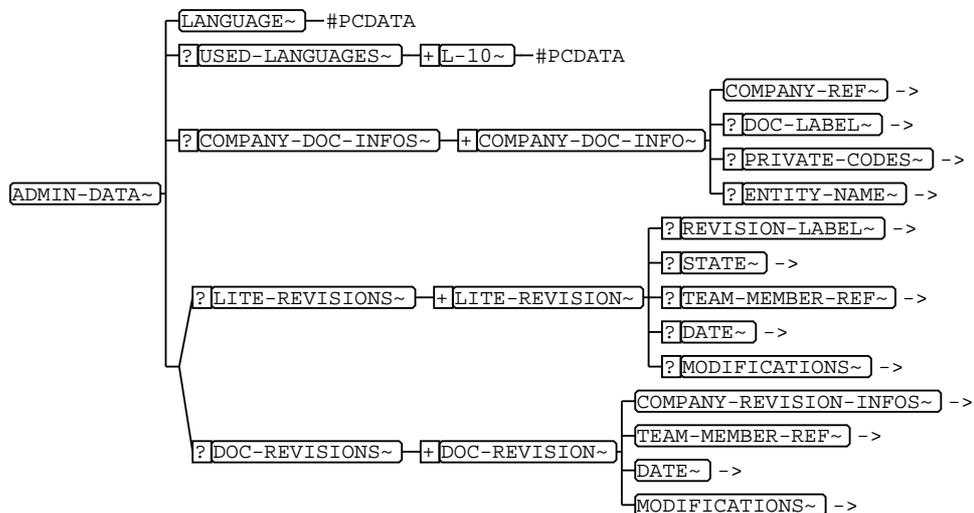


Figure 6: DTD-diagram for ADMIN-DATA

Child elements `<language>` `<used-languages>` `<company-doc-infos>` `<lite-revisions>` `<doc-revisions>`

parent elements `<chapter>` `<fm-action-type>` `<fm-fault>` `<fm-fault-type>` `<fm-function>` `<fm-function-type>` `<fm-structure>` `<fm-structure-element>` `<general-project-data>` `<msrfmea>`

**Table 5: Attributes for ADMIN-DATA**

Name	Type	Class	Value	Remark
[F-CHILD-TYPE]	cdata	fixed	language:selection	
[S]	cdata	implied		
[T]	cdata	implied		

Description This element allows to specify administrative information regarding the sub-structure defined by the parent. This information may be versioning, fragmentation etc. The information rather covers the administration of the SGML-instance than the administration of the described subjects.

IQ-Fmea uses this element to describe the languages used in the instance.

Example

```

admin-data
  languagede/language
  doc-revisions>
  doc-revision>
    company-revision-infos>
      company-revision-info>
        company-ref>msr/company-ref>
        revision-label>10.4/revision-label>
        state>wd/state>
      /company-revision-info>
    /company-revision-infos>
  team-member-ref>/team-member-ref>
  date>1.1.99/date>
  modifications>
    modification type="part-related">
      change>Introduced new Architecture/change>
      reason>Customer request/reason>
    /modification>
  /modifications>
  /doc-revision>
  /doc-revisions>
/admin-data>

```

## 2 C-CODE ... COVER-SHEET-STYLE

### 2.1 C-CODE

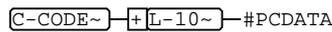


Figure 7: DTD-diagram for C-CODE

Child elements <I-10>

parent elements <formula>

Table 6: Attributes for C-CODE

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description This element is used to specify the code of the formula transferred to the programming language C.

### 2.2 CHANGE

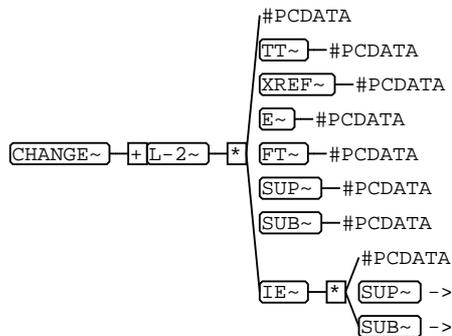


Figure 8: DTD-diagram for CHANGE

Child elements <I-2>

parent elements <modification>

**Table 7: Attributes for CHANGE**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Describes the change of a document

## 2.3 CHAPTER

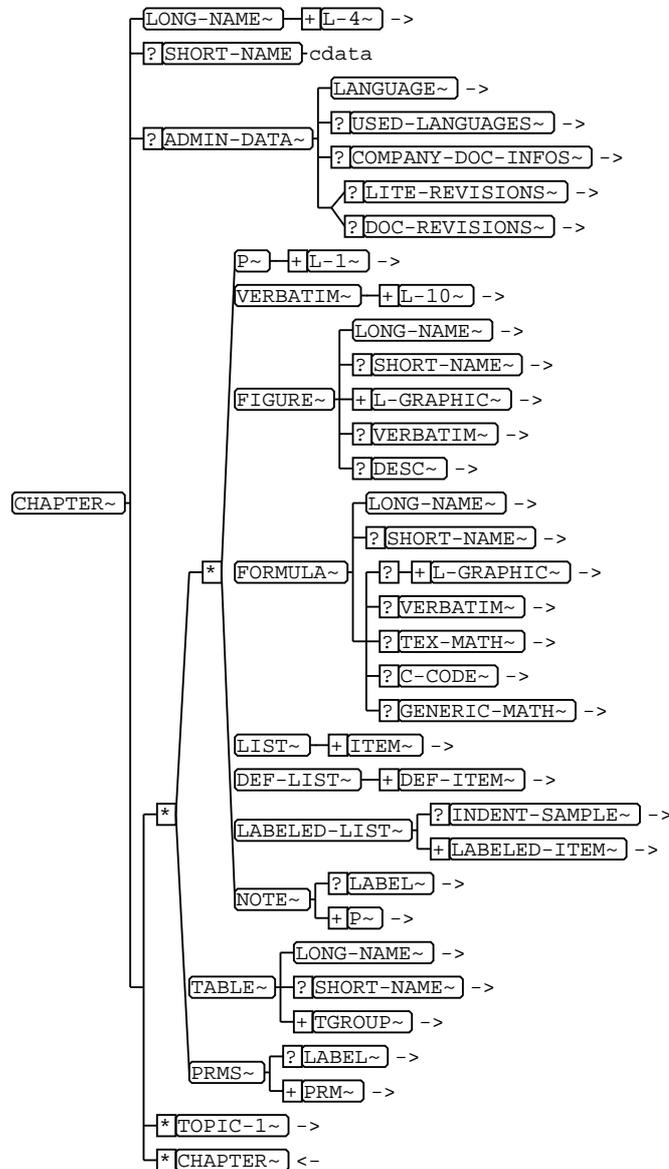


Figure 9: DTD-diagram for CHAPTER

Child elements **<long-name>** **<short-name>** **<admin-data>** **<p>** **<verbatim>** **<figure>**  
**<formula>** **<list>** **<def-list>** **<labeled-list>** **<note>** **<table>** **<prms>**  
**<topic-1>** **<chapter>**

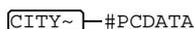
parent elements **<chapter>** **<ncoi-1>**

**Table 8: Attributes for CHAPTER**

Name	Type	Class	Value	Remark
[BREAK]	nmtkgrp	implied	BREAK NO-BREAK	
[F-ID-CLASS]	name	fixed	CHAPTER	
[HELP-ENTRY]	cdata	implied		
[ID]	id	required		
[S]	cdata	implied		
[T]	cdata	implied		

Description This element is used to write one or more not content oriented chapters. There are also sub chapters possible.

## 2.4 CITY



**Figure 10: DTD-diagram for CITY**

Child elements none

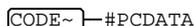
parent elements <team-member>

**Table 9: Attributes for CITY**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Definition of the city of the address.

## 2.5 CODE



**Figure 11: DTD-diagram for CODE**

Child elements none

parent elements <variant-char> <variant-char-value> <variant-def>

**Table 10: Attributes for CODE**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description This element contains the definition of the code.

## 2.6 COLSPEC

`<COLSPEC>` empty

**Figure 12: DTD-diagram for COLSPEC**

Child elements none

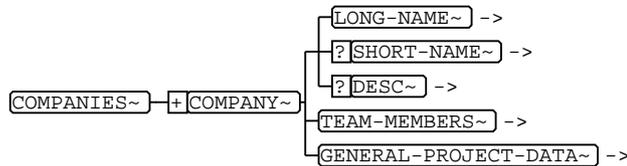
parent elements `<tfoot>` `<tgroup>` `<thead>`

**Table 11: Attributes for COLSPEC**

Name	Type	Class	Value	Remark
[ALIGN]	nmtkgrp	implied	LEFT RIGHT CENTER JUSTIFY CHAR	
[CHAR]	cdata	implied		
[CHAROFF]	nutoken	implied		
[COLNAME]	nmtoken	implied		
[COLNUM]	number	implied		
[COLSEP]	number	implied		
[COLWIDTH]	cdata	implied		
[ROWSEP]	number	implied		
[S]	cdata	implied		
[T]	cdata	implied		

Description Specifies a column, a vertical portion of a `<entry>`. The default values come from the `<tgroup>`, `<thead>` or `<tfoot>` starting the current group. Each `<colspec>` is for a single column, so it properly has a column number, column, implicitly in order starting from 1, and an optional colname by which it is known when used in any `<spanspec>` or in `<entry>`. A `<colspec>` set on `<thead>` or `<tfoot>` should be complete for all columns. It overrides those on the containing `<tgroup>` and applies to just the `<thead>` or `<tfoot>`. If there is no `<colspec>` used within `<thead>` or `<tfoot>`, then the `<colspec>` of the containing `<tgroup>` is used. `<colspec>`s from the containing `<tgroup>` apply to `<tbody>`.

## 2.7 COMPANIES



images/COMPANIES.bmp

Figure 13: DTD-diagram for COMPANIES

Child elements **<company>**

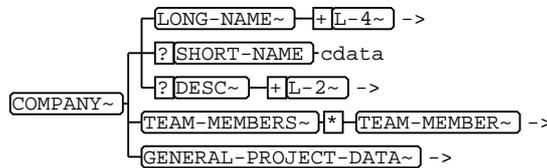
parent elements **<fm-head>**

Table 12: Attributes for COMPANIES

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Definitions of some companies.

## 2.8 COMPANY



images/COMPANY.bmp

Figure 14: DTD-diagram for COMPANY

Child elements **<long-name>** **<short-name>** **<desc>** **<team-members>** **<general-project-data>**

parent elements **<companies>**

Table 13: Attributes for COMPANY

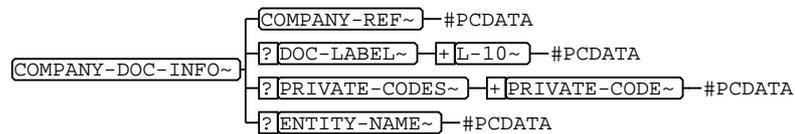
Name	Type	Class	Value	Remark
[F-CHILD-TYPE]	cdata	fixed	long-name:selection	
[F-ID-CLASS]	name	fixed	COMPANY	
[F-NAMESPACE]	names	fixed	SAMPLE TEAM-MEMBER VARIANT-DEF VARIANT-CHAR	
[ID]	id	required		

**Table 13 (Cont.): Attributes for COMPANY**

Name	Type	Class	Value	Remark
[ROLE]	nmtkgrp	required	MANUFACTURER SUPPLIER	
[S]	cdata	implied		
[T]	cdata	implied		

Description Definition of a company with all team members for this project.

## 2.9 COMPANY-DOC-INFO



images/COMPANY-DOC-INFO.bmp

**Figure 15: DTD-diagram for COMPANY-DOC-INFO**

Child elements **<company-ref>** **<doc-label>** **<private-codes>** **<entity-name>**

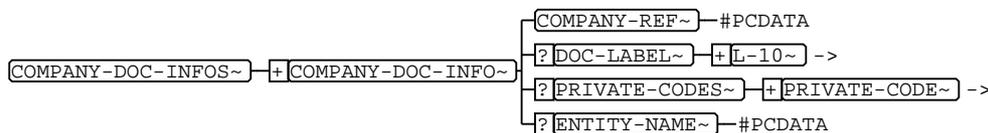
parent elements **<company-doc-infos>**

**Table 14: Attributes for COMPANY-DOC-INFO**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Company specific document informations.

## 2.10 COMPANY-DOC-INFOS



images/COMPANY-DOC-INFOS.bmp

**Figure 16: DTD-diagram for COMPANY-DOC-INFOS**

Child elements **<company-doc-info>**

parent elements **<admin-data>**

**Table 15: Attributes for COMPANY-DOC-INFOS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Company specific document information.

## 2.11 COMPANY-REF



**Figure 17: DTD-diagram for COMPANY-REF**

Child elements none

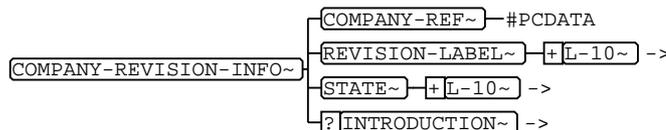
parent elements <company-doc-info> <company-revision-info>

**Table 16: Attributes for COMPANY-REF**

Name	Type	Class	Value	Remark
[COMPANY]	idref	required		
[HYNAMES]	names	fixed	LINKEND COMPAN- NY	
[HYTIME]	name	fixed	CLINK	
[S]	cdata	implied		
[T]	cdata	implied		

Description Reference to a company (supplier).

## 2.12 COMPANY-REVISION-INFO



**Figure 18: DTD-diagram for COMPANY-REVISION-INFO**

Child elements <company-ref> <revision-label> <state> <introduction>

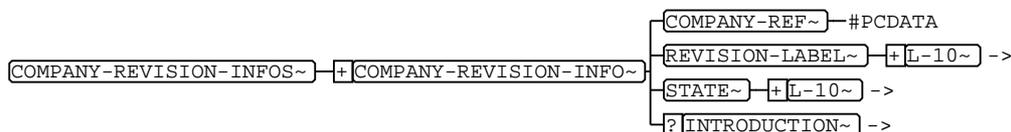
parent elements **<company-revision-infos>**

**Table 17: Attributes for COMPANY-REVISION-INFO**

Name	Type	Class	Value	Remark
[F-CHILD-TYPE]	cdata	fixed	state:selection	
[S]	cdata	implied		
[T]	cdata	implied		

Description Company specific document revision.

## 2.13 COMPANY-REVISION-INFOS



images/COMPANY-REVISION-INFOS.bmp

**Figure 19: DTD-diagram for COMPANY-REVISION-INFOS**

Child elements **<company-revision-info>**

parent elements **<doc-revision>**

**Table 18: Attributes for COMPANY-REVISION-INFOS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Company specific document revisions.

## 2.14 COND

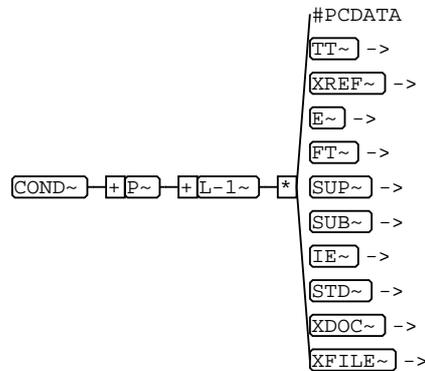


Figure 20: DTD-diagram for COND

Child elements **<p>**

parent elements **<prm-char>**

Table 19: Attributes for COND

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Defines specific conditions under this parameter characteristic is allowed.

## 2.15 COVER-SHEET-STYLE



Figure 21: DTD-diagram for COVER-SHEET-STYLE

Child elements none

parent elements **<user-cover-sheet>**

**Table 20: Attributes for COVER-SHEET-STYLE**

Name	Type	Class	Value	Remark
[S]	CDATA	implied		
[T]	CDATA	implied		

## 3 DATE ... DOC-REVISIONS

### 3.1 DATE

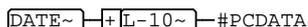


Figure 22: DTD-diagram for DATE

Child elements <I-10>

parent elements <doc-revision> <lite-revision> <schedule>

Table 21: Attributes for DATE

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Specifies a date. The specification of the date is only possible in one language.  
- last handling - publishing - creation.

### 3.2 DATE-1

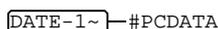


Figure 23: DTD-diagram for DATE-1

Child elements none

parent elements <fm-task-schedule> <fm-task-sets> <std> <xdoc>

Table 22: Attributes for DATE-1

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description With this element it is possible to specify a date in several languages.

### 3.3 DEF

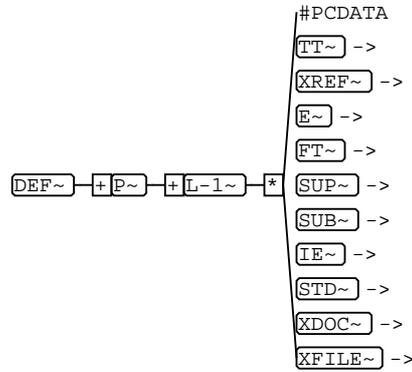


Figure 24: DTD-diagram for DEF

Child elements `<p>`

parent elements `<def-item>`

Table 23: Attributes for DEF

Name	Type	Class	Value	Remark
[S]	CDATA	implied		
[T]	CDATA	implied		

Description This is a element of an definition list

### 3.4 DEF-ITEM

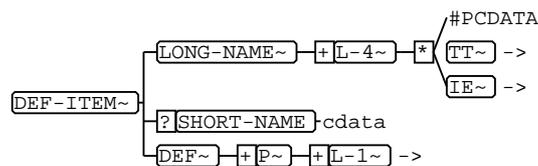


Figure 25: DTD-diagram for DEF-ITEM

Child elements `<long-name>` `<short-name>` `<def>`

parent elements `<def-list>`

Table 24: Attributes for DEF-ITEM

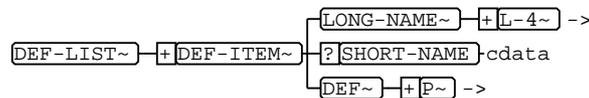
Name	Type	Class	Value	Remark
[F-ID-CLASS]	name	fixed	DEF-ITEM	

**Table 24 (Cont.): Attributes for DEF-ITEM**

Name	Type	Class	Value	Remark
[HELP-ENTRY]	cdata	implied		
[ID]	id	required		
[S]	cdata	implied		
[T]	cdata	implied		

Description Null

### 3.5 DEF-LIST



images/DEF-LIST.bmp

**Figure 26: DTD-diagram for DEF-LIST**

Child elements **<def-item>**

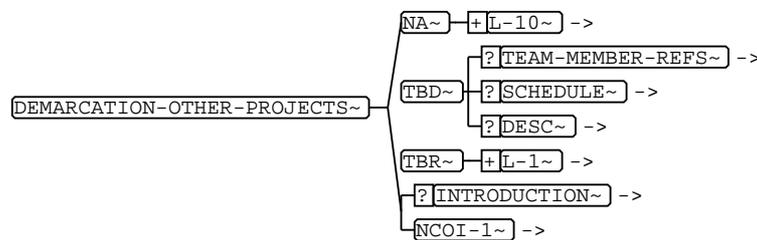
parent elements **<chapter>** **<entry>** **<fm-form-sheet-presentation>** **<introduction>**  
**<item>** **<labeled-item>** **<ncoi-1>** **<remark>** **<topic-1>** **<topic-2>**

**Table 25: Attributes for DEF-LIST**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description This element allows the user to define a list.

### 3.6 DEMARCATION-OTHER-PROJECTS



images/DEMARCATION-OTHER-PROJECTS.bmp

**Figure 27: DTD-diagram for DEMARCATION-OTHER-PROJECTS**

Child elements **<na>** **<tbd>** **<tbr>** **<introduction>** **<ncoi-1>**

parent elements <general-project-data>

**Table 26: Attributes for DEMARCATION-OTHER-PROJECTS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Specifies the demarcation and differences to other projects.

### 3.7 DEPARTMENT



**Figure 28: DTD-diagram for DEPARTMENT**

Child elements none

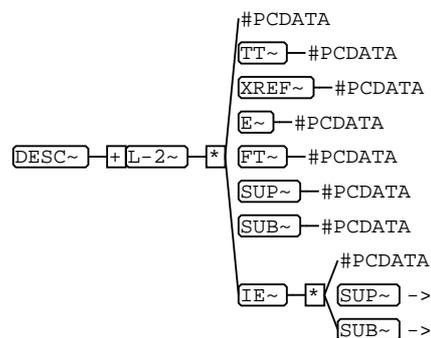
parent elements <team-member>

**Table 27: Attributes for DEPARTMENT**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description This element contains the name of the department.

### 3.8 DESC



**Figure 29: DTD-diagram for DESC**

Child elements <l-2>

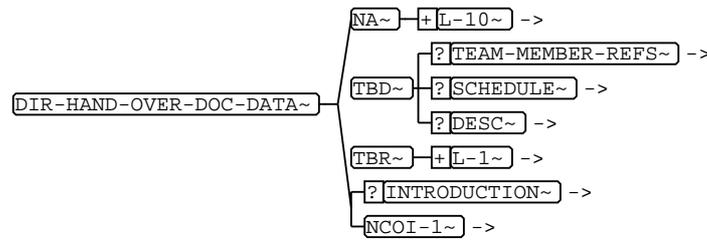
parent elements **<company>** **<figure>** **<fm-action>** **<fm-action-type>** **<fm-fault>**  
**<fm-fault-type>** **<fm-form-sheet>** **<fm-function>** **<fm-function-type>**  
**<fm-significance>** **<fm-structure>** **<fm-structure-element>** **<fm-task-  
 schedule>** **<fm-task-set>** **<fm-task-sets>** **<fm-task-sets>** **<fm-team>**  
**<fm-tool>** **<misc>** **<prm>** **<tbd>** **<team-member>**

**Table 28: Attributes for DESC**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Short text description of the object.

### 3.9 DIR-HAND-OVER-DOC-DATA



images/DIR-HAND-OVER-DOC-DATA.bmp

**Figure 30: DTD-diagram for DIR-HAND-OVER-DOC-DATA**

Child elements **<na>** **<tbd>** **<tbr>** **<introduction>** **<ncoi-1>**

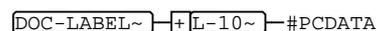
parent elements **<general-project-data>**

**Table 29: Attributes for DIR-HAND-OVER-DOC-DATA**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Directory of all documents which are hand-over the project-partner.

### 3.10 DOC-LABEL



images/DOC-LABEL.bmp

**Figure 31: DTD-diagram for DOC-LABEL**

Child elements **<l-10>**

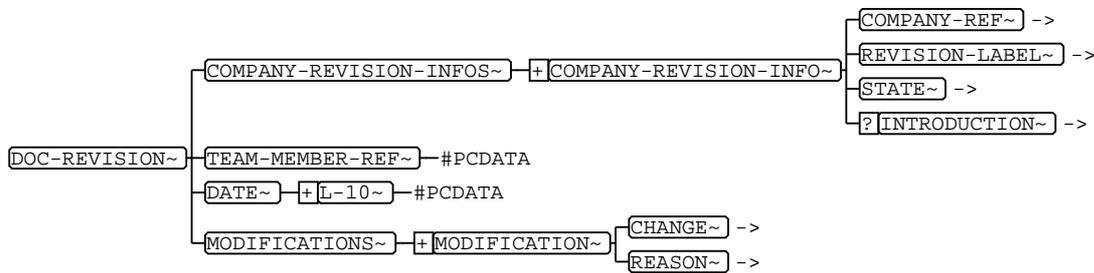
parent elements <company-doc-info>

**Table 30: Attributes for DOC-LABEL**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Name of the document

### 3.11 DOC-REVISION



**Figure 32: DTD-diagram for DOC-REVISION**

Child elements <company-revision-infos> <team-member-ref> <date> <modifications>

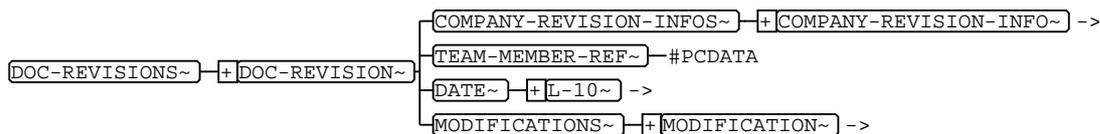
parent elements <doc-revisions>

**Table 31: Attributes for DOC-REVISION**

Name	Type	Class	Value	Remark
[F-CHILD-TYPE]	cdata	fixed	date:date	
[S]	cdata	implied		
[T]	cdata	implied		

Description This element describes a document revision

### 3.12 DOC-REVISIONS



**Figure 33: DTD-diagram for DOC-REVISIONS**

Child elements <doc-revision>

parent elements <admin-data>

**Table 32: Attributes for DOC-REVISIONS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description This element describes the document revisions

## 4 E ... ENTRY

### 4.1 E



Figure 34: DTD-diagram for E

Child elements none

parent elements <I-1> <I-2>

Table 33: Attributes for E

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		
[TYPE]	nmtkgrp	default	BOLD BOLD ITALIC	

Description Identifies the scope of emphasized information.

### 4.2 EMAIL

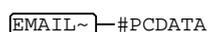


Figure 35: DTD-diagram for EMAIL

Child elements none

parent elements <team-member>

Table 34: Attributes for EMAIL

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Definition of the email-address.

## 4.3 ENTITY-NAME

ENTITY-NAME~ -#PCDATA

Figure 36: DTD-diagram for ENTITY-NAME

Child elements none

parent elements <company-doc-info>

Table 35: Attributes for ENTITY-NAME

Name	Type	Class	Value	Remark
[S]	CDATA	IMPLIED		
[T]	CDATA	IMPLIED		

Description Filename~ of the document fragment.

## 4.4 ENTRY

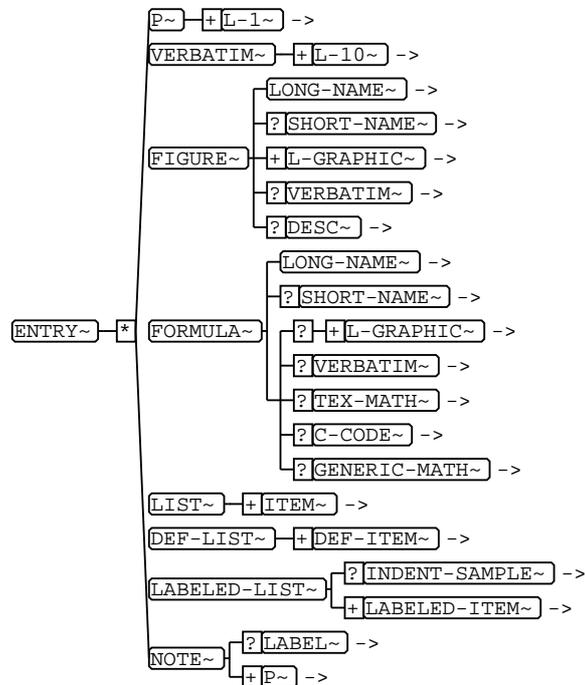


Figure 37: DTD-diagram for ENTRY



Child elements `<p>` `<verbatim>` `<figure>` `<formula>` `<list>` `<def-list>` `<labeled-list>`  
`<note>`

parent elements `<row>`

**Table 36: Attributes for ENTRY**

Name	Type	Class	Value	Remark
[ALIGN]	nmtkgrp	implied	LEFT RIGHT CENTER JUSTIFY CHAR	
[CHAR]	cdata	implied		
[CHAROFF]	nutoken	implied		
[COLNAME]	nmtoken	implied		
[COLSEP]	number	implied		
[MOREROWS]	number	default	0	
[NAMEEND]	nmtoken	implied		
[NAMEST]	nmtoken	implied		
[ROTATE]	number	default	0	
[ROWSEP]	number	implied		
[S]	cdata	implied		
[SPANNAME]	nmtoken	implied		
[T]	cdata	implied		
[VALIGN]	nmtkgrp	default	TOP TOP BOTTOM MIDDLE	

Description Identifies an entry in a table. Default values come from the `<table>`, `<tgroup>`, `<colspec>`, `<spanspec>`, `<thead>`, `<tbody>` or `<row>`; attributes. An entry not specified by a `<spanspec>` get the defaults from its starting column.

## 5 FAX ... FM-EXTERNAL-ACTIONS-DETECT

### 5.1 FAX

`[FAX~]` — #PCDATA

Figure 38: DTD-diagram for FAX

Child elements none

parent elements `<team-member>`

Table 37: Attributes for FAX

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Contents the fax number of an address.

### 5.2 FIGURE

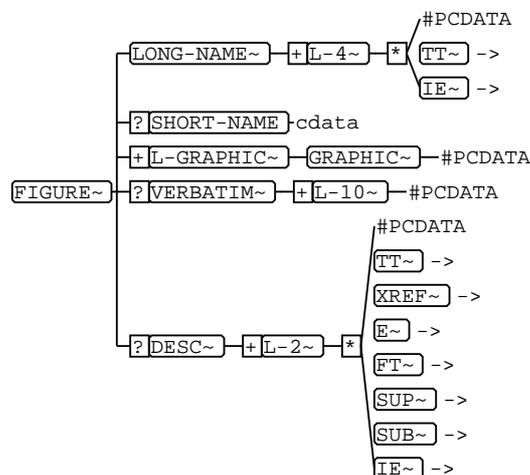


Figure 39: DTD-diagram for FIGURE

Child elements `<long-name>` `<short-name>` `<l-graphic>` `<verbatim>` `<desc>`

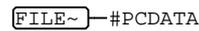
parent elements `<chapter>` `<entry>` `<fm-form-sheet-presentation>` `<introduction>`  
`<item>` `<labeled-item>` `<ncoi-1>` `<remark>` `<topic-1>` `<topic-2>`

**Table 38: Attributes for FIGURE**

Name	Type	Class	Value	Remark
[F-ID-CLASS]	name	fixed	FIGURE	
[FLOAT]	nmtkgrp	implied	FLOAT NO-FLOAT	
[HELP-ENTRY]	cdata	implied		
[ID]	id	required		
[S]	cdata	implied		
[T]	cdata	implied		

Description Identifies a figure in the document.

## 5.3 FILE



**Figure 40: DTD-diagram for FILE**

Child elements none

parent elements <std> <xdoc> <xfile>

**Table 39: Attributes for FILE**

Name	Type	Class	Value	Remark
[FILENAME]	cdata	required		
[NOTATION]	cdata	required		
[S]	cdata	implied		
[T]	cdata	implied		
[TOOL]	cdata	required		
[TOOL-VERSION]	cdata	required		

Description Definition of a filename (complete path).

## 5.4 FM-ACTION

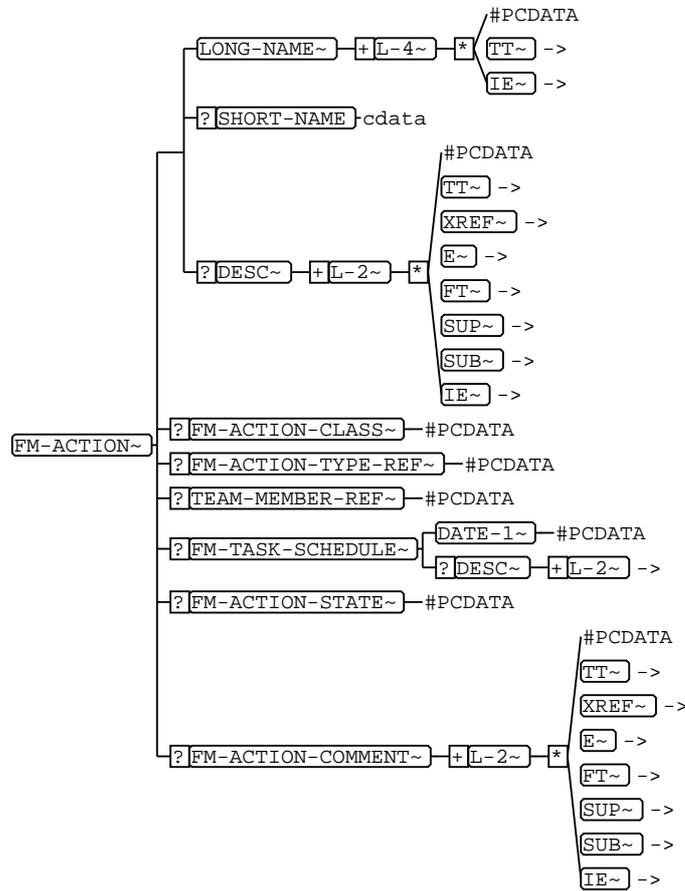


Figure 41: DTD-diagram for FM-ACTION

Child elements **<long-name>** **<short-name>** **<desc>** **<fm-action-class>** **<fm-action-type-ref>** **<team-member-ref>** **<fm-task-schedule>** **<fm-action-state>** **<fm-action-comment>**

parent elements **<fm-actions>**

Table 40: Attributes for FM-ACTION

Name	Type	Class	Value	Remark
[F-ID-CLASS]	name	fixed	FM-ACTION	
[ID]	id	required		
[S]	cdata	implied		
[T]	cdata	implied		

Description

This element specifies actions (measures) in IQ-Fmea. Two existing kinds of actions must be specified: the counter-action (Preventive- oder Vermeidungsmaßnahmen) and the detection-action (Control- oder Entdeckungsmaßnahmen). This kind of action is written in the element FM-ACTION-PURPOSE

## 5.5 FM-ACTION-CLASS

`FM-ACTION-CLASS~` — #PCDATA

Figure 42: DTD-diagram for FM-ACTION-CLASS

Child elements none

parent elements `<fm-action>`

Table 41: Attributes for FM-ACTION-CLASS

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

## 5.6 FM-ACTION-COMMENT

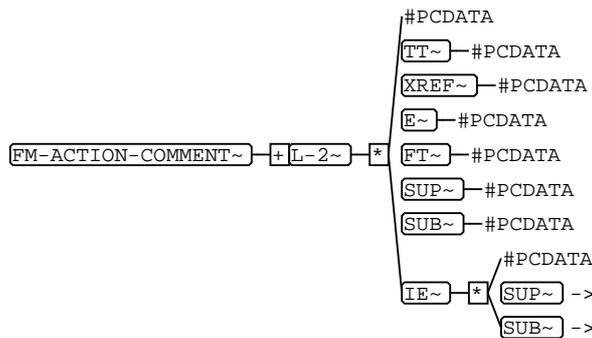


Figure 43: DTD-diagram for FM-ACTION-COMMENT

Child elements `<l-2>`

parent elements `<fm-action>`

**Table 42: Attributes for FM-ACTION-COMMENT**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

## 5.7 FM-ACTION-REF



**Figure 44: DTD-diagram for FM-ACTION-REF**

Child elements none

parent elements <fm-counter-tasks> <fm-detection-tasks> <fm-external-action>

**Table 43: Attributes for FM-ACTION-REF**

Name	Type	Class	Value	Remark
[FM-ACTION]	idref	required		
[HYNAMES]	names	fixed	LINKEND FM-ACTION	
[HYTIME]	name	fixed	CLINK	
[S]	cdata	implied		
[T]	cdata	implied		

Description

FM-Action-Ref is a reference to an existing FM-Action. All references in IQ-Fmea are implemented by UniQ-Identifiers. These are Integers with the size 2<sup>64</sup>. Each of this Integers identifies exactly one IQ-Object.

## 5.8 FM-ACTION-STATE



**Figure 45: DTD-diagram for FM-ACTION-STATE**

Child elements none

parent elements **<fm-action>**

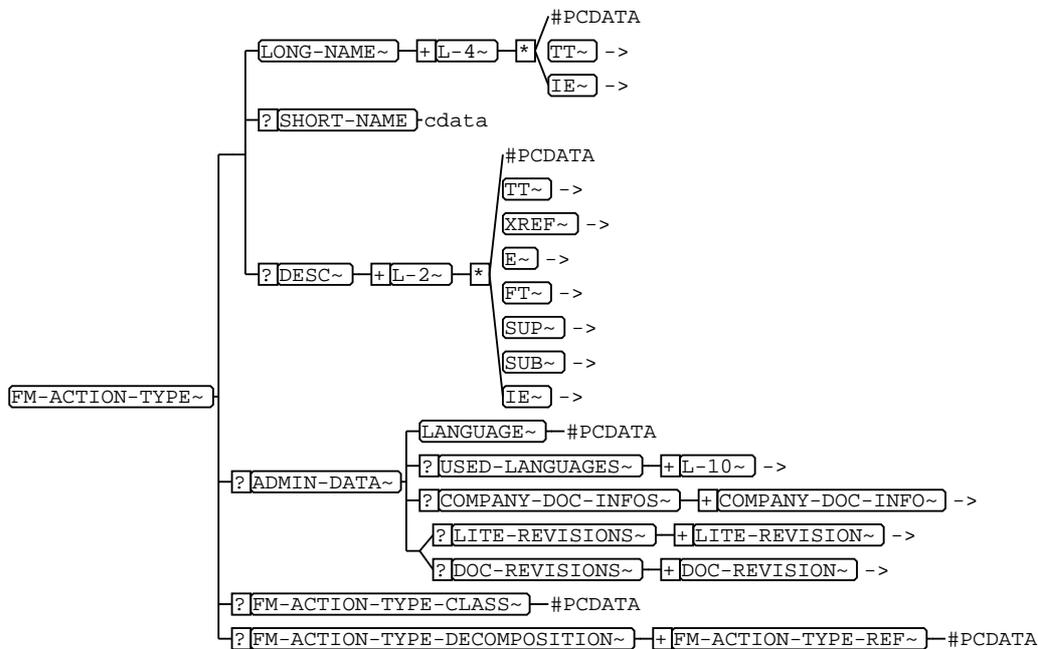
**Table 44: Attributes for FM-ACTION-STATE**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description

FM-Action-State qualifies the work-off of an action. Four states are defined: inProgress, untouched, finished, irrelevant.

## 5.9 FM-ACTION-TYPE



**Figure 46: DTD-diagram for FM-ACTION-TYPE**

Child elements **<long-name>** **<short-name>** **<desc>** **<admin-data>** **<fm-action-type-class>** **<fm-action-type-decomposition>**

parent elements **<fm-action-types>**

**Table 45: Attributes for FM-ACTION-TYPE**

Name	Type	Class	Value	Remark
[F-ID-CLASS]	name	fixed	FM-ACTION-TYPE	
[ID]	id	required		
[S]	cdata	implied		

**Table 45 (Cont.): Attributes for FM-ACTION-TYPE**

Name	Type	Class	Value	Remark
[T]	cdata	implied		

Description

The FM-Action-Type element is equivalent to the FM-Function-Type element

## 5.10 FM-ACTION-TYPE-CLASS

`FM-ACTION-TYPE-CLASS~` #PCDATA

**Figure 47: DTD-diagram for FM-ACTION-TYPE-CLASS**

Child elements none

parent elements `<fm-action-type>`

**Table 46: Attributes for FM-ACTION-TYPE-CLASS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

## 5.11 FM-ACTION-TYPE-DECOMPOSITION

`FM-ACTION-TYPE-DECOMPOSITION~` + `FM-ACTION-TYPE-REF~` #PCDATA

**Figure 48: DTD-diagram for FM-ACTION-TYPE-DECOMPOSITION**

Child elements `<fm-action-type-ref>`

parent elements `<fm-action-type>`

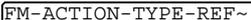
**Table 47: Attributes for FM-ACTION-TYPE-DECOMPOSITION**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description

The FM-Action-Type-Decomposition is equivalent to the FM-Function-Type-Decomposition

## 5.12 FM-ACTION-TYPE-REF

 #PCDATA

**Figure 49: DTD-diagram for FM-ACTION-TYPE-REF**

Child elements none

parent elements `<fm-action>` `<fm-action-type-decomposition>`

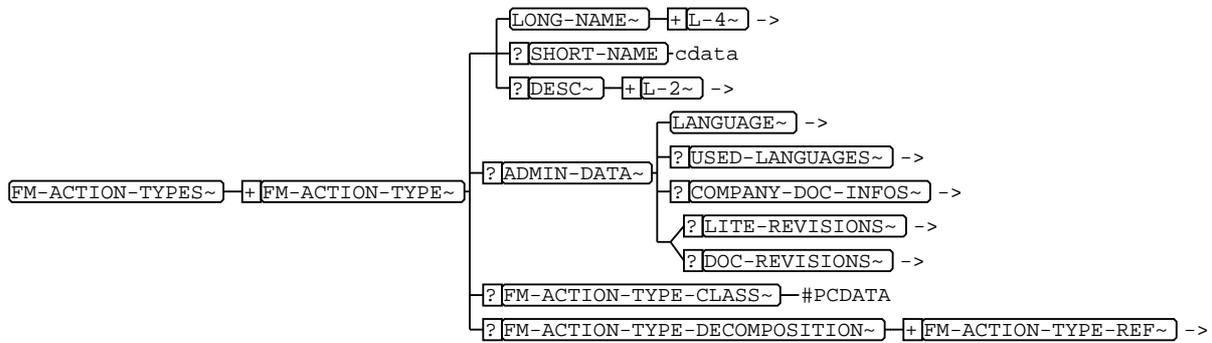
**Table 48: Attributes for FM-ACTION-TYPE-REF**

Name	Type	Class	Value	Remark
[FM-ACTION-TYPE]	idref	required		
[HYNAMES]	names	fixed	LINKEND FM-ACTION-TYPE	
[HYTIME]	name	fixed	CLINK	
[S]	cdata	implied		
[T]	cdata	implied		

Description

FM-Action-Type-Ref is a reference to an element FM-Action-Type.

## 5.13 FM-ACTION-TYPES



images/FM-ACTION-TYPES.bmp

Figure 50: DTD-diagram for FM-ACTION-TYPES

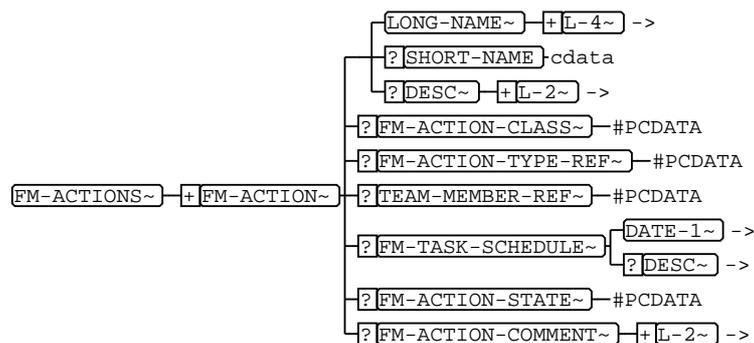
Child elements **<fm-action-type>**

parent elements **<msrfmea>**

Table 49: Attributes for FM-ACTION-TYPES

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

## 5.14 FM-ACTIONS



images/FM-ACTIONS.bmp

Figure 51: DTD-diagram for FM-ACTIONS

Child elements **<fm-action>**

parent elements **<msrfmea>**

**Table 50: Attributes for FM-ACTIONS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description

This is a collection with all existing FM-Actions in the instance. Each FM-Action may be referenced with FM-Action-Ref.

## 5.15 FM-CAUSES



**Figure 52: DTD-diagram for FM-CAUSES**

Child elements <fm-fault-ref>

parent elements <fm-fault>

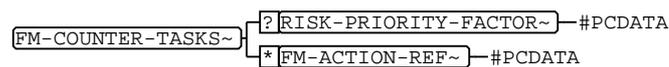
**Table 51: Attributes for FM-CAUSES**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description

This collection of Fm-fault-refs includes references to FM-Faults. Each reference is a Cause (Ursache) of the Fm-Fault.

## 5.16 FM-COUNTER-TASKS



**Figure 53: DTD-diagram for FM-COUNTER-TASKS**

Child elements <risk-priority-factor> <fm-action-ref>

parent elements <fm-task-set>

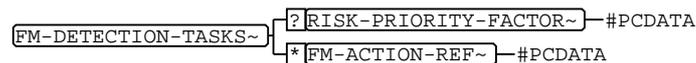
**Table 52: Attributes for FM-COUNTER-TASKS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description

This is a set of references to FM-Actions, the so-called counter-actions (Vermeidungsmaßnahmen)

## 5.17 FM-DETECTION-TASKS



**Figure 54: DTD-diagram for FM-DETECTION-TASKS**

Child elements <risk-priority-factor> <fm-action-ref>

parent elements <fm-task-set>

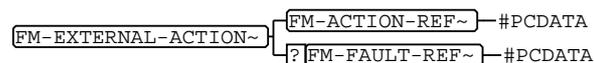
**Table 53: Attributes for FM-DETECTION-TASKS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description

This is a set of references to FM-Actions, the so-called detection-actions (Entdeckungsmaßnahmen)

## 5.18 FM-EXTERNAL-ACTION



**Figure 55: DTD-diagram for FM-EXTERNAL-ACTION**

Child elements <fm-action-ref> <fm-fault-ref>

parent elements <fm-external-actions-control> <fm-external-actions-detect>

Table 54: Attributes for FM-EXTERNAL-ACTION

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

## 5.19 FM-EXTERNAL-ACTIONS-CONTROL



Figure 56: DTD-diagram for FM-EXTERNAL-ACTIONS-CONTROL

Child elements <fm-external-action>

parent elements <fm-task-set>

Table 55: Attributes for FM-EXTERNAL-ACTIONS-CONTROL

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

## 5.20 FM-EXTERNAL-ACTIONS-DETECT



Figure 57: DTD-diagram for FM-EXTERNAL-ACTIONS-DETECT

Child elements <fm-external-action>

parent elements <fm-task-set>

**Table 56: Attributes for FM-EXTERNAL-ACTIONS-DETECT**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

## 6 FM-FAULT ... FM-FUNCTION-TYPE-REF

### 6.1 FM-FAULT

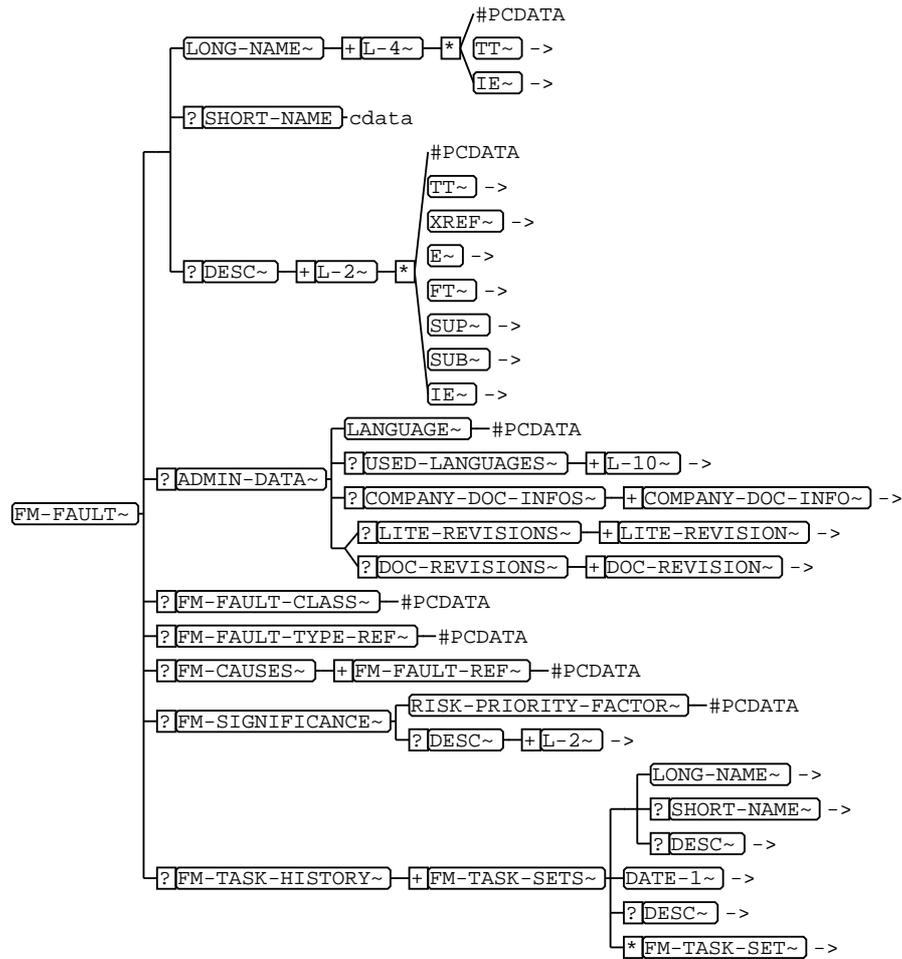


Figure 58: DTD-diagram for FM-FAULT

Child elements **<long-name>** **<short-name>** **<desc>** **<admin-data>** **<fm-fault-class>**  
**<fm-fault-type-ref>** **<fm-causes>** **<fm-significance>** **<fm-task-**  
**history>**

parent elements **<fm-faults>**

**Table 57: Attributes for FM-FAULT**

Name	Type	Class	Value	Remark
[F-ID-CLASS]	name	fixed	FM-FAULT	
[F-NAMESPACE]	names	fixed	FM-TASK-SET FM-TASK-SETS	
[ID]	id	required		
[S]	cdata	implied		
[T]	cdata	implied		

Description

FM-Faults are the (possible) failures of Fm-Functions. Each Fm-Fault may have a significance, which is used to compute the risk-priority-factor. The Fm-Fault holds the Fm-Chg element, which is the root to the Fm-Tasks and further to the Fm-Actions.

## 6.2 FM-FAULT-CLASS



**Figure 59: DTD-diagram for FM-FAULT-CLASS**

Child elements none

parent elements <fm-fault>

**Table 58: Attributes for FM-FAULT-CLASS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

## 6.3 FM-FAULT-REF



**Figure 60: DTD-diagram for FM-FAULT-REF**

Child elements none

parent elements **<fm-causes>** **<fm-external-action>** **<fm-fault-refs>** **<input>** **<output>**  
**<visible>**

**Table 59: Attributes for FM-FAULT-REF**

Name	Type	Class	Value	Remark
[FM-FAULT]	idref	required		
[HYNAMES]	names	fixed	LINKEND FM-FAULT	
[HYTIME]	name	fixed	CLINK	
[S]	cdata	implied		
[T]	cdata	implied		

## 6.4 FM-FAULT-REFS



**Figure 61: DTD-diagram for FM-FAULT-REFS**

Child elements **<fm-fault-ref>**

parent elements **<fm-function>**

**Table 60: Attributes for FM-FAULT-REFS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description

This is a collection with references to FM-Faults in the instance.

## 6.5 FM-FAULT-TYPE

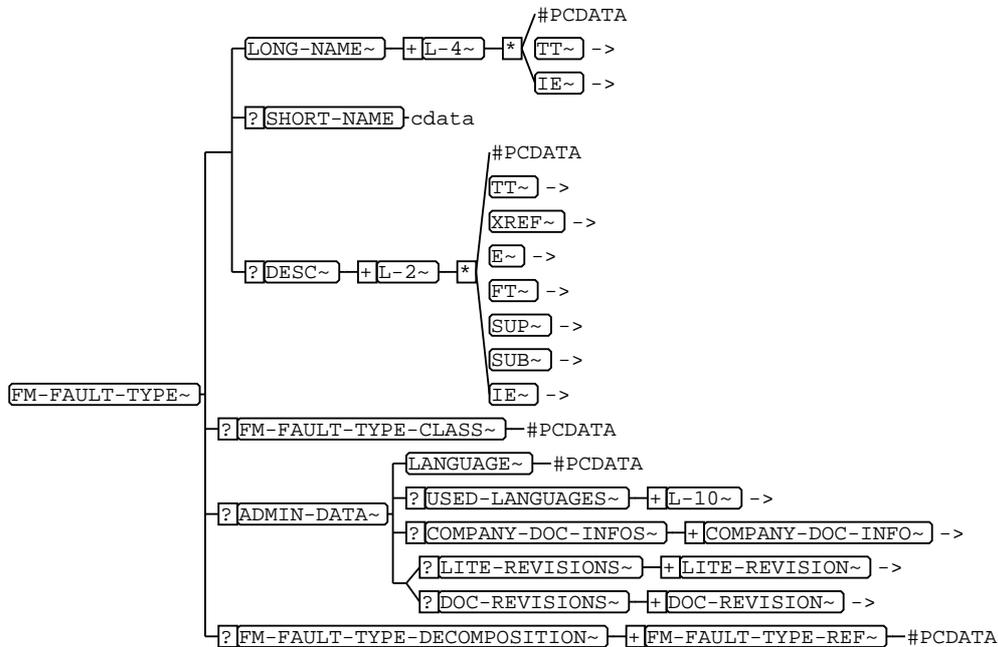


Figure 62: DTD-diagram for FM-FAULT-TYPE

Child elements **<long-name>** **<short-name>** **<desc>** **<fm-fault-type-class>** **<admin-data>** **<fm-fault-type-decomposition>**

parent elements **<fm-fault-types>**

Table 61: Attributes for FM-FAULT-TYPE

Name	Type	Class	Value	Remark
[F-ID-CLASS]	name	fixed	FM-FAULT-TYPE	
[ID]	id	required		
[S]	cdata	implied		
[T]	cdata	implied		

Description

The FM-Fault-Type element is equivalent to the FM-Function-Type element

## 6.6 FM-FAULT-TYPE-CLASS

`FM-FAULT-TYPE-CLASS~` — #PCDATA

**Figure 63: DTD-diagram for FM-FAULT-TYPE-CLASS**

Child elements none

parent elements `<fm-fault-type>`

**Table 62: Attributes for FM-FAULT-TYPE-CLASS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

images/FM-FAULT-TYPE-CLASS.bmp

## 6.7 FM-FAULT-TYPE-DECOMPOSITION

`FM-FAULT-TYPE-DECOMPOSITION~` + `FM-FAULT-TYPE-REF~` — #PCDATA

**Figure 64: DTD-diagram for FM-FAULT-TYPE-DECOMPOSITION**

Child elements `<fm-fault-type-ref>`

parent elements `<fm-fault-type>`

**Table 63: Attributes for FM-FAULT-TYPE-DECOMPOSITION**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

images/FM-FAULT-TYPE-DECOMPOSITION.bmp

## 6.8 FM-FAULT-TYPE-REF

`FM-FAULT-TYPE-REF~` — #PCDATA

Figure 65: DTD-diagram for FM-FAULT-TYPE-REF

Child elements none

parent elements `<fm-fault>` `<fm-fault-type-decomposition>`

Table 64: Attributes for FM-FAULT-TYPE-REF

Name	Type	Class	Value	Remark
[FM-FAULT-TYPE]	idref	required		
[HYNAMES]	names	fixed	LINKEND FM-FAULT-TYPE	
[HYTIME]	name	fixed	CLINK	
[S]	cdata	implied		
[T]	cdata	implied		

## 6.9 FM-FAULT-TYPES

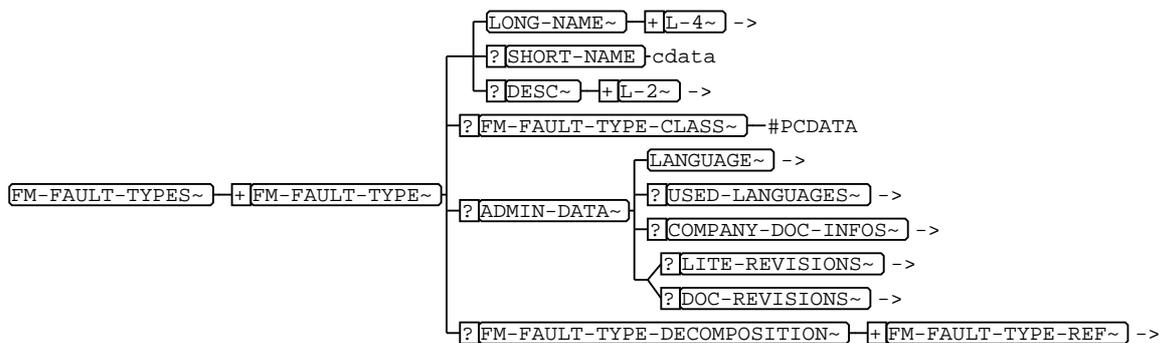


Figure 66: DTD-diagram for FM-FAULT-TYPES

Child elements `<fm-fault-type>`

parent elements `<msrfmea>`

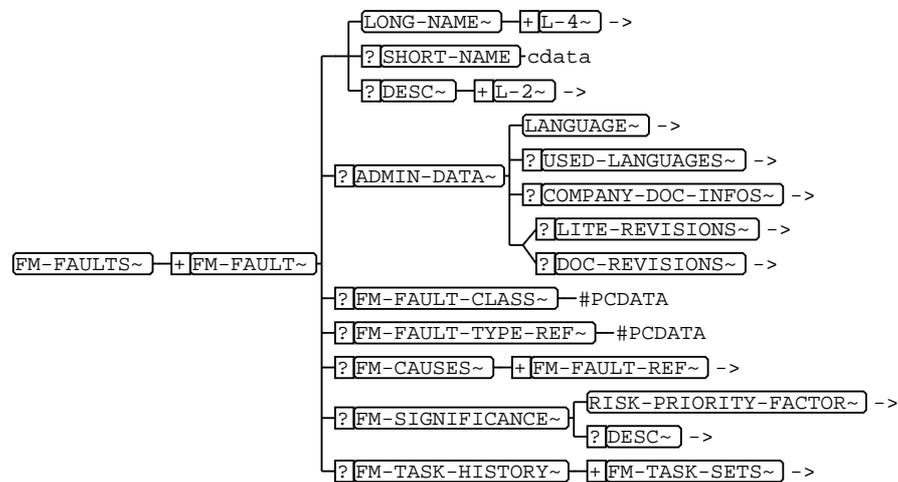
**Table 65: Attributes for FM-FAULT-TYPES**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description

This is a collection with all existing FM-Fault-Types in the instance. Each FM-Fault-Type may be referenced by a FM-Fault-Type-Ref element.

## 6.10 FM-FAULTS



**Figure 67: DTD-diagram for FM-FAULTS**

Child elements **<fm-fault>**

parent elements **<msrfmea>**

**Table 66: Attributes for FM-FAULTS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description

This is a collection with all existing FM-Faults in the instance. Each FM-Fault may be referenced by a FM-Fault-Ref element.

## 6.11 FM-FORM-SHEET

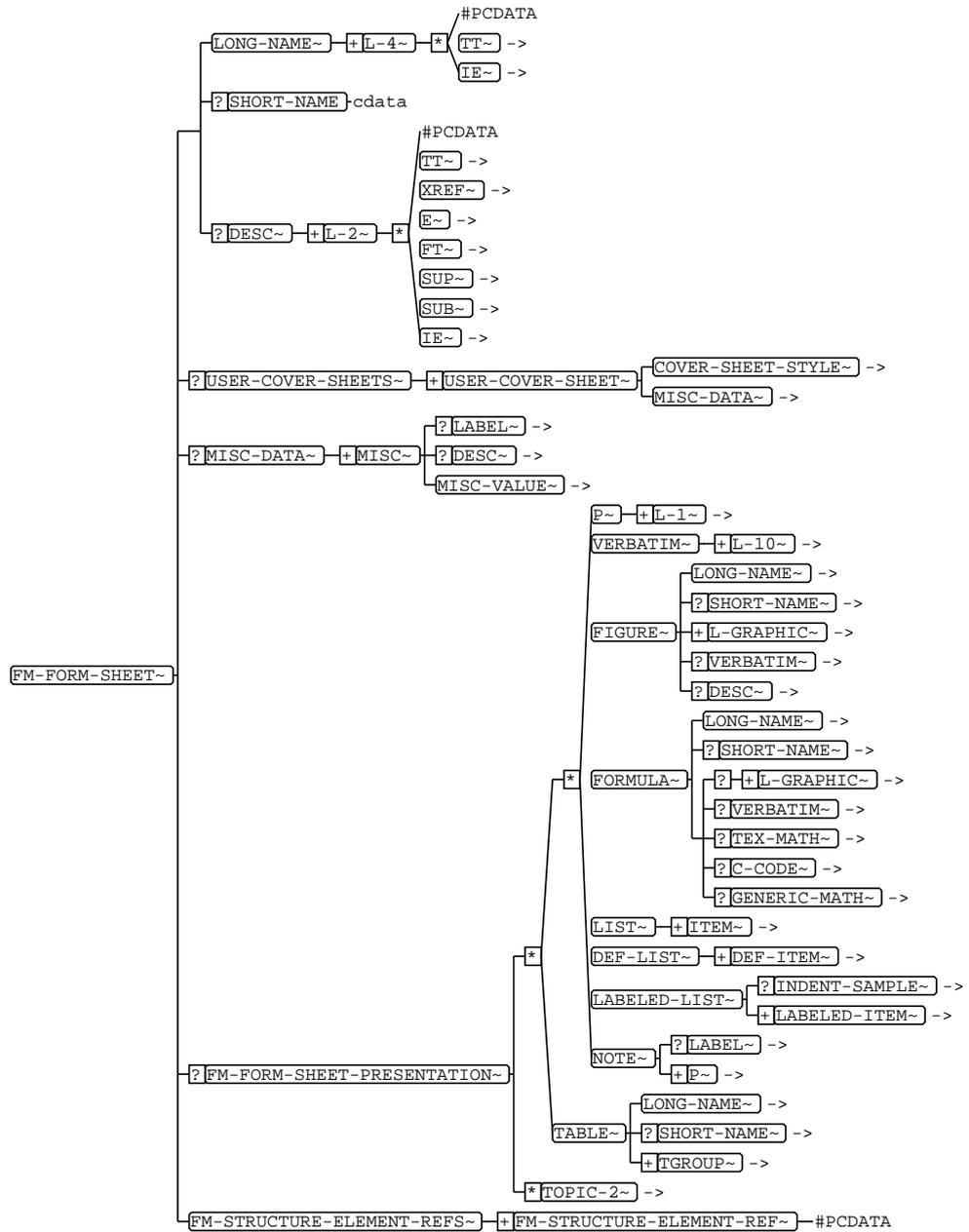


Figure 68: DTD-diagram for FM-FORM-SHEET

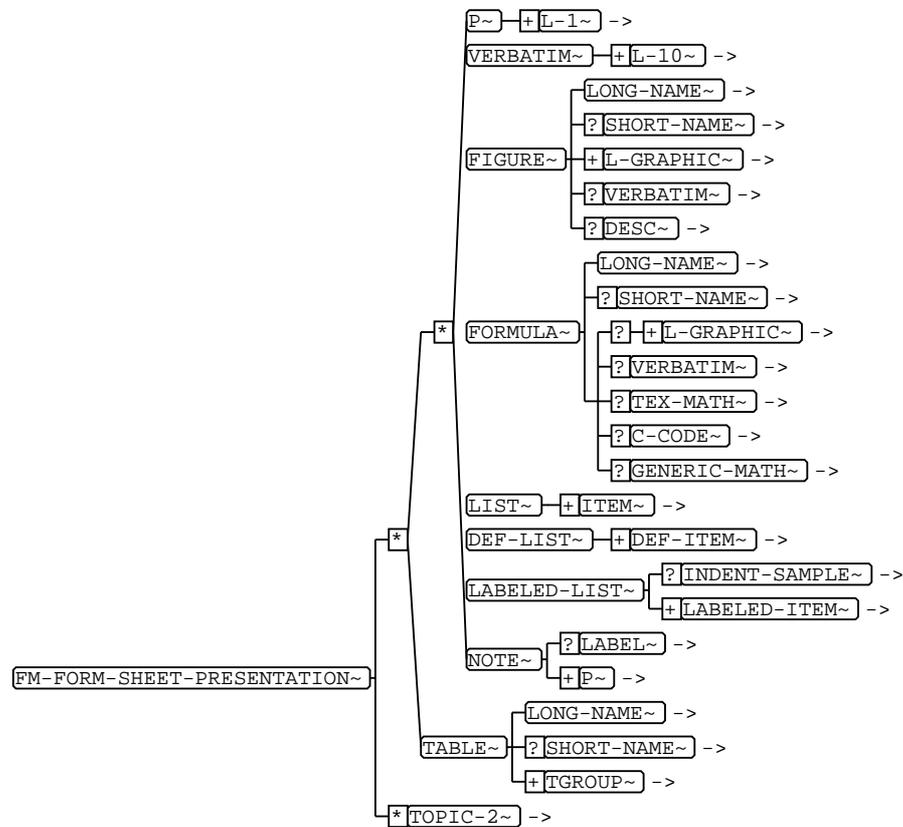
Child elements **<long-name>** **<short-name>** **<desc>** **<user-cover-sheets>** **<misc-data>** **<fm-form-sheet-presentation>** **<fm-structure-element-refs>**

parent elements **<fm-form-sheets>**

**Table 67: Attributes for FM-FORM-SHEET**

Name	Type	Class	Value	Remark
[F-ID-CLASS]	name	fixed	FM-FORM-SHEET	
[ID]	id	required		
[S]	cdata	implied		
[T]	cdata	implied		

## 6.12 FM-FORM-SHEET-PRESENTATION



**Figure 69: DTD-diagram for FM-FORM-SHEET-PRESENTATION**

Child elements **<p> <verbatim> <figure> <formula> <list> <def-list> <labeled-list> <note> <table> <topic-2>**

parent elements **<fm-form-sheet>**

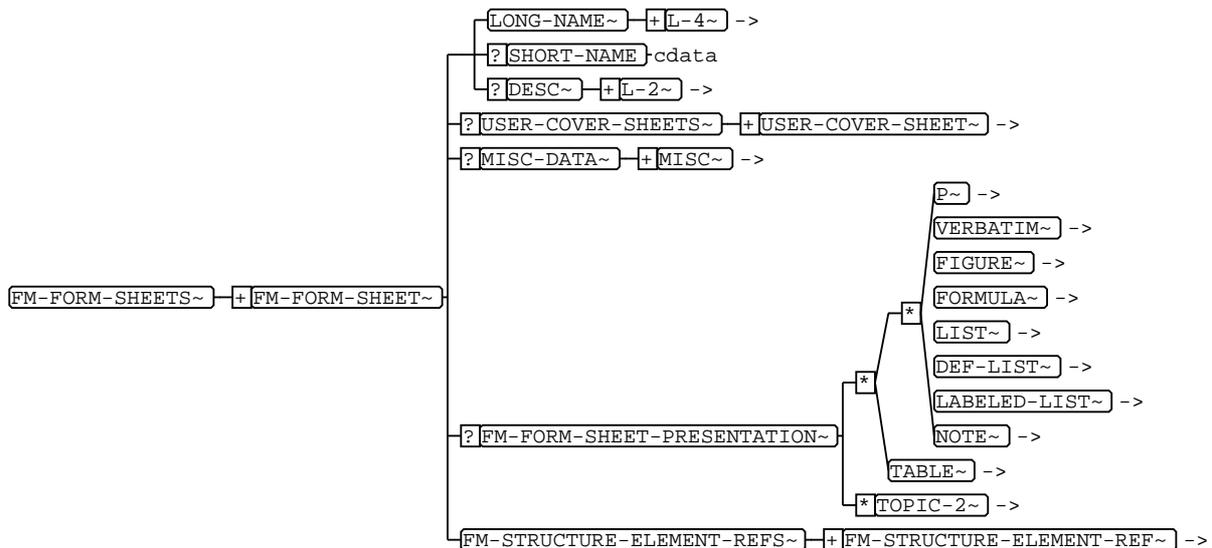
**Table 68: Attributes for FM-FORM-SHEET-PRESENTATION**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description

This is a calcs-tab-description of the visual representation of a fmea-form. Some different layouts are available but just the last active layout is exported. This presentation-layer has no semantic information because all the semantic information of a fmea-form can be restored from the "real" fmea-elements, f. e. Fm-Structure-Element, Fm-Fault, Fm-Function, Fm-Causes etc.

## 6.13 FM-FORM-SHEETS



**Figure 70: DTD-diagram for FM-FORM-SHEETS**

Child elements **<fm-form-sheet>**

parent elements **<fm-structure>**

**Table 69: Attributes for FM-FORM-SHEETS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

## 6.14 FM-FUNCTION

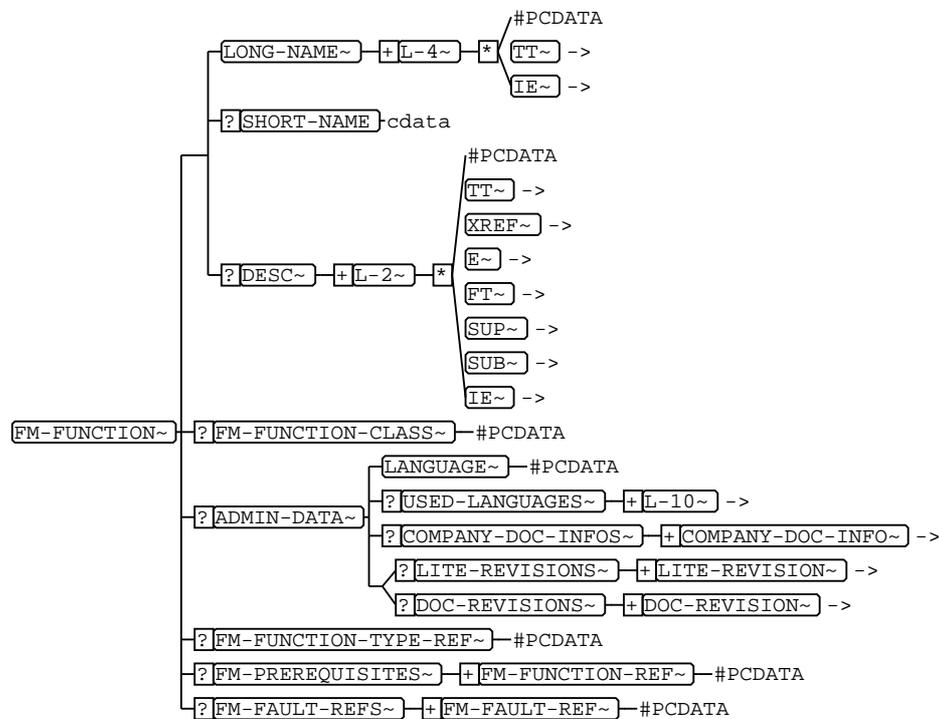


Figure 71: DTD-diagram for FM-FUNCTION

Child elements **<long-name>** **<short-name>** **<desc>** **<fm-function-class>** **<admin-data>** **<fm-function-type-ref>** **<fm-prerequisites>** **<fm-fault-refs>**

parent elements **<fm-functions>**

Table 70: Attributes for FM-FUNCTION

Name	Type	Class	Value	Remark
[F-ID-CLASS]	name	fixed	FM-FUNCTION	
[ID]	id	required		
[S]	cdata	implied		
[T]	cdata	implied		

### Description

Each FM-Function is anchored at one systemelement (FM-Structure-Element). All the functions should describe the aim of their systemelement. Each function is an instance of its type (FM-Function-Type) and may be referenced by FM-Function-Ref.

## 6.15 FM-FUNCTION-CLASS



**Figure 72: DTD-diagram for FM-FUNCTION-CLASS**

Child elements none

parent elements **<fm-function>**

**Table 71: Attributes for FM-FUNCTION-CLASS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

## 6.16 FM-FUNCTION-REF



**Figure 73: DTD-diagram for FM-FUNCTION-REF**

Child elements none

parent elements **<fm-prerequisites>** **<fm-se-functions>** **<input>** **<output>** **<visible>**

**Table 72: Attributes for FM-FUNCTION-REF**

Name	Type	Class	Value	Remark
[FM-FUNCTION]	idref	required		
[HYNAMES]	names	fixed	LINKEND FM-FUNCTION	
[HYTIME]	name	fixed	CLINK	
[S]	cdata	implied		
[T]	cdata	implied		

## 6.17 FM-FUNCTION-TYPE

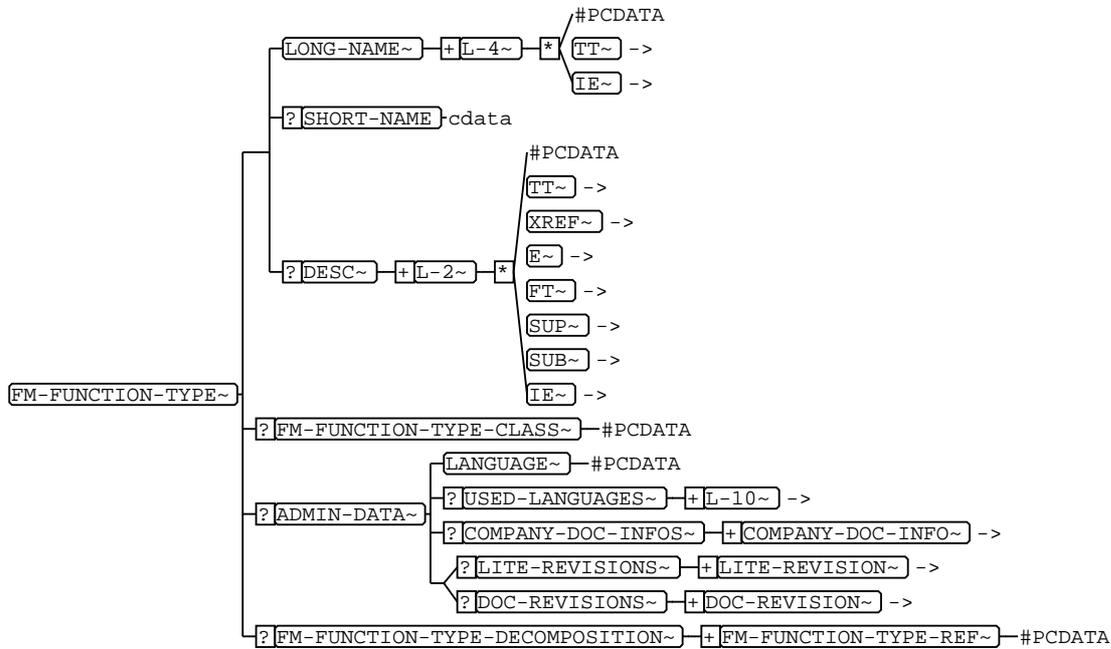


Figure 74: DTD-diagram for FM-FUNCTION-TYPE

Child elements **<long-name>** **<short-name>** **<desc>** **<fm-function-type-class>**  
**<admin-data>** **<fm-function-type-decomposition>**

parent elements **<fm-function-types>**

Table 73: Attributes for FM-FUNCTION-TYPE

Name	Type	Class	Value	Remark
[F-ID-CLASS]	name	fixed	FM-FUNCTION-TYPE	
[ID]	id	required		
[S]	cdata	implied		
[T]	cdata	implied		

### Description

The FM-Function-Type is the name-provider for each fm-function. This technique is used for fm-functions, fm-faults and fm-actions. Each of these instances has a reference to its type, f. e. fm-function has a reference to its type within FM-Function-Type-Ref.

## 6.18 FM-FUNCTION-TYPE-CLASS

`FM-FUNCTION-TYPE-CLASS~` — #PCDATA

**Figure 75: DTD-diagram for FM-FUNCTION-TYPE-CLASS**

Child elements none

parent elements `<fm-function-type>`

**Table 74: Attributes for FM-FUNCTION-TYPE-CLASS**

Name	Type	Class	Value	Remark
[S]	CDATA	implied		
[T]	CDATA	implied		

images/FM-FUNCTION-TYPE-CLASS.bmp

## 6.19 FM-FUNCTION-TYPE-DECOMPOSITION

`FM-FUNCTION-TYPE-DECOMPOSITION~` + `FM-FUNCTION-TYPE-REF~` — #PCDATA

**Figure 76: DTD-diagram for FM-FUNCTION-TYPE-DECOMPOSITION**

Child elements `<fm-function-type-ref>`

parent elements `<fm-function-type>`

**Table 75: Attributes for FM-FUNCTION-TYPE-DECOMPOSITION**

Name	Type	Class	Value	Remark
[S]	CDATA	implied		
[T]	CDATA	implied		

Description

images/FM-FUNCTION-TYPE-DECOMPOSITION.bmp

The FM-Function-Type-Decomposition has the structure of a tree. Each FM-Function-Type has children with other FM-Function-Types. Each FM-Function-Type inherits the name of his parent - the so-called classification-name.

## 6.20 FM-FUNCTION-TYPE-REF

 #PCDATA

**Figure 77: DTD-diagram for FM-FUNCTION-TYPE-REF**

Child elements none

parent elements `<fm-function>` `<fm-function-type-decomposition>`

**Table 76: Attributes for FM-FUNCTION-TYPE-REF**

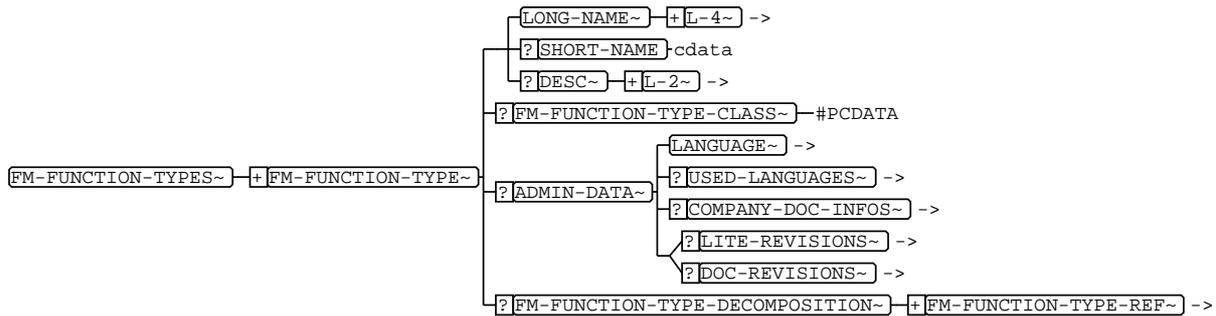
Name	Type	Class	Value	Remark
[FM-FUNCTION-TYPE]	idref	required		
[HYNAMES]	names	fixed	LINKEND FM-FUNCTION-TYPE	
[HYTIME]	name	fixed	CLINK	
[S]	cdata	implied		
[T]	cdata	implied		

Description

The FM-Function-Type-Ref is a reference to a FM-Function-Type within the sgml-instance.

## 7 FM-FUNCTION-TYPES ... FM-STRUCTURE-ROOT

### 7.1 FM-FUNCTION-TYPES



images/FM-FUNCTION-TYPES.bmp

Figure 78: DTD-diagram for FM-FUNCTION-TYPES

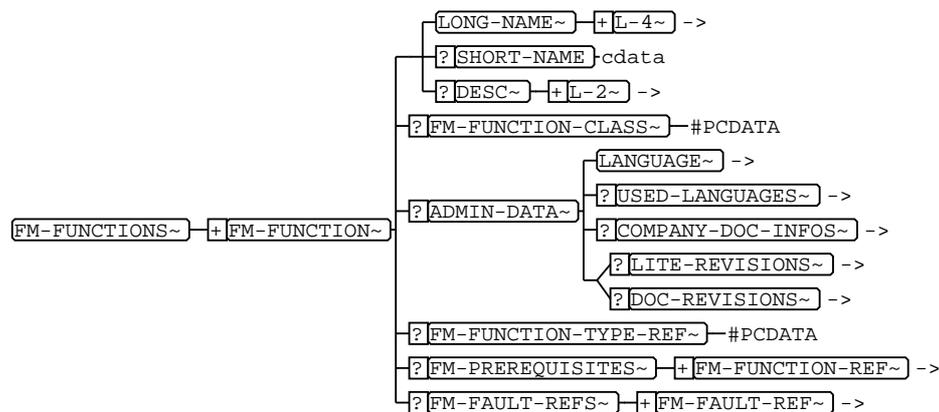
Child elements `<fm-function-type>`

parent elements `<msrfmea>`

Table 77: Attributes for FM-FUNCTION-TYPES

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

### 7.2 FM-FUNCTIONS



images/FM-FUNCTIONS.bmp

Figure 79: DTD-diagram for FM-FUNCTIONS

Child elements **<fm-function>**

parent elements **<msrfmea>**

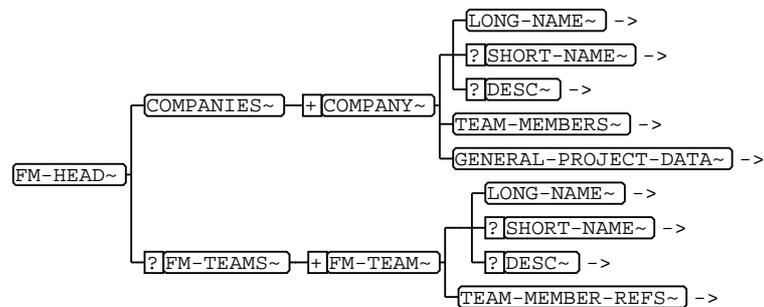
**Table 78: Attributes for FM-FUNCTIONS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description

This is a collection with all existing FM-Functions in the instance. Each FM-Function may be referenced by a FM-Function-Ref element.

## 7.3 FM-HEAD



images/FM-HEAD.bmp

**Figure 80: DTD-diagram for FM-HEAD**

Child elements **<companies>** **<fm-teams>**

parent elements **<msrfmea>**

**Table 79: Attributes for FM-HEAD**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description

This is used to hold information about the shared companies within the sgml-instance, the user-profile, employed persons (team-members) and their teams.

## 7.4 FM-ID-PREFIX



**Figure 81: DTD-diagram for FM-ID-PREFIX**

Child elements none

parent elements **<fm-tool>**

**Table 80: Attributes for FM-ID-PREFIX**

Name	Type	Class	Value	Remark
[S]	CDATA	implied		
[T]	CDATA	implied		

images/FM-ID-PREFIX.bmp

## 7.5 FM-IDTABLE



**Figure 82: DTD-diagram for FM-IDTABLE**

Child elements **<idc>**

parent elements **<fm-tool>**

**Table 81: Attributes for FM-IDTABLE**

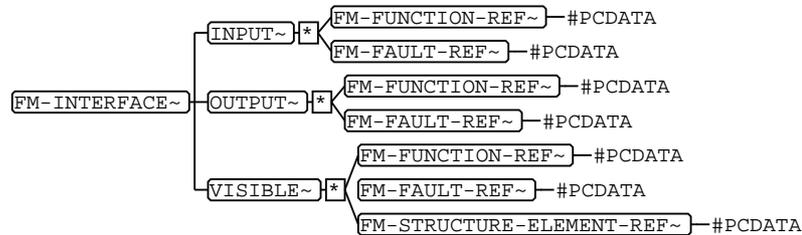
Name	Type	Class	Value	Remark
[S]	CDATA	implied		
[T]	CDATA	implied		
[TOOL]	name	implied		

Description

The Fm-Idtable identifies identities, that are generated by other applications than the Id-Owner. This "mapping" enables the parser, to recognize strange elements, that were formerly changed by himself. Each application uses its own Fm-Idtable, found in Fm-Idtables.

images/FM-IDTABLE.bmp

## 7.6 FM-INTERFACE



images/FM-INTERFACE.bmp

Figure 83: DTD-diagram for FM-INTERFACE

Child elements **<input>** **<output>** **<visible>**

parent elements **<fm-structure>**

Table 82: Attributes for FM-INTERFACE

Name	Type	Class	Value	Remark
[S]	CDATA	implied		
[T]	CDATA	implied		

Description

This element is not used yet. In the future the modules will be implemented. The interface is used to describe incoming, outgoing and visible references to/from a module.

## 7.7 FM-ORPHAN-HOME



images/FM-ORPHAN-HOME.bmp

Figure 84: DTD-diagram for FM-ORPHAN-HOME

Child elements **<fm-structure-element-ref>**

parent elements **<fm-structure>**

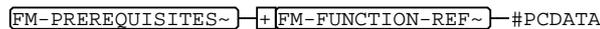
Table 83: Attributes for FM-ORPHAN-HOME

Name	Type	Class	Value	Remark
[S]	CDATA	implied		
[T]	CDATA	implied		

Description

The orphan home is a FM-Structure-Element which holds an orphan FM-Function. All "unanchored" Objects are anchored at the orphans.

## 7.8 FM-PREREQUISITES



**Figure 85: DTD-diagram for FM-PREREQUISITES**

Child elements **<fm-function-ref>**

parent elements **<fm-function>**

**Table 84: Attributes for FM-PREREQUISITES**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description

This collection includes references to FM-Functions. Each reference is a prerequisite (Ursache) of the Fm-Function. This is similar to the causes of Fm-Faults.

## 7.9 FM-SE-DECOMPOSITION



**Figure 86: DTD-diagram for FM-SE-DECOMPOSITION**

Child elements **<fm-structure-element-ref>**

parent elements **<fm-structure-element>**

**Table 85: Attributes for FM-SE-DECOMPOSITION**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description

The Fm-Se-Decomposition describes the tree-structure of the Systemelements within a structure. The root-element is referenced in Fm-Structure. The Fm-Se-Decomposition is the children-collection of each Systemelement.

## 7.10 FM-SE-FUNCTIONS

FM-SE-FUNCTIONS~ + FM-FUNCTION-REF~ #PCDATA

**Figure 87: DTD-diagram for FM-SE-FUNCTIONS**

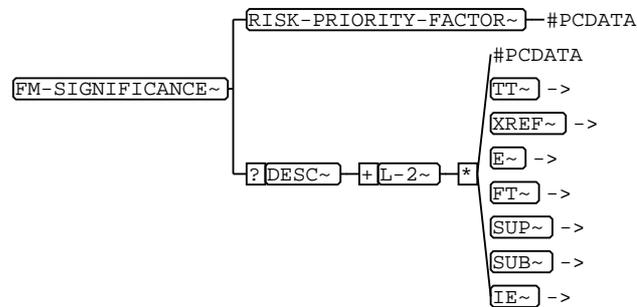
Child elements <fm-function-ref>

parent elements <fm-structure-element>

**Table 86: Attributes for FM-SE-FUNCTIONS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

## 7.11 FM-SIGNIFICANCE



**Figure 88: DTD-diagram for FM-SIGNIFICANCE**

Child elements <risk-priority-factor> <desc>



parent elements **<fm-fault>**

**Table 87: Attributes for FM-SIGNIFICANCE**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

## 7.12 FM-STRUCTURE

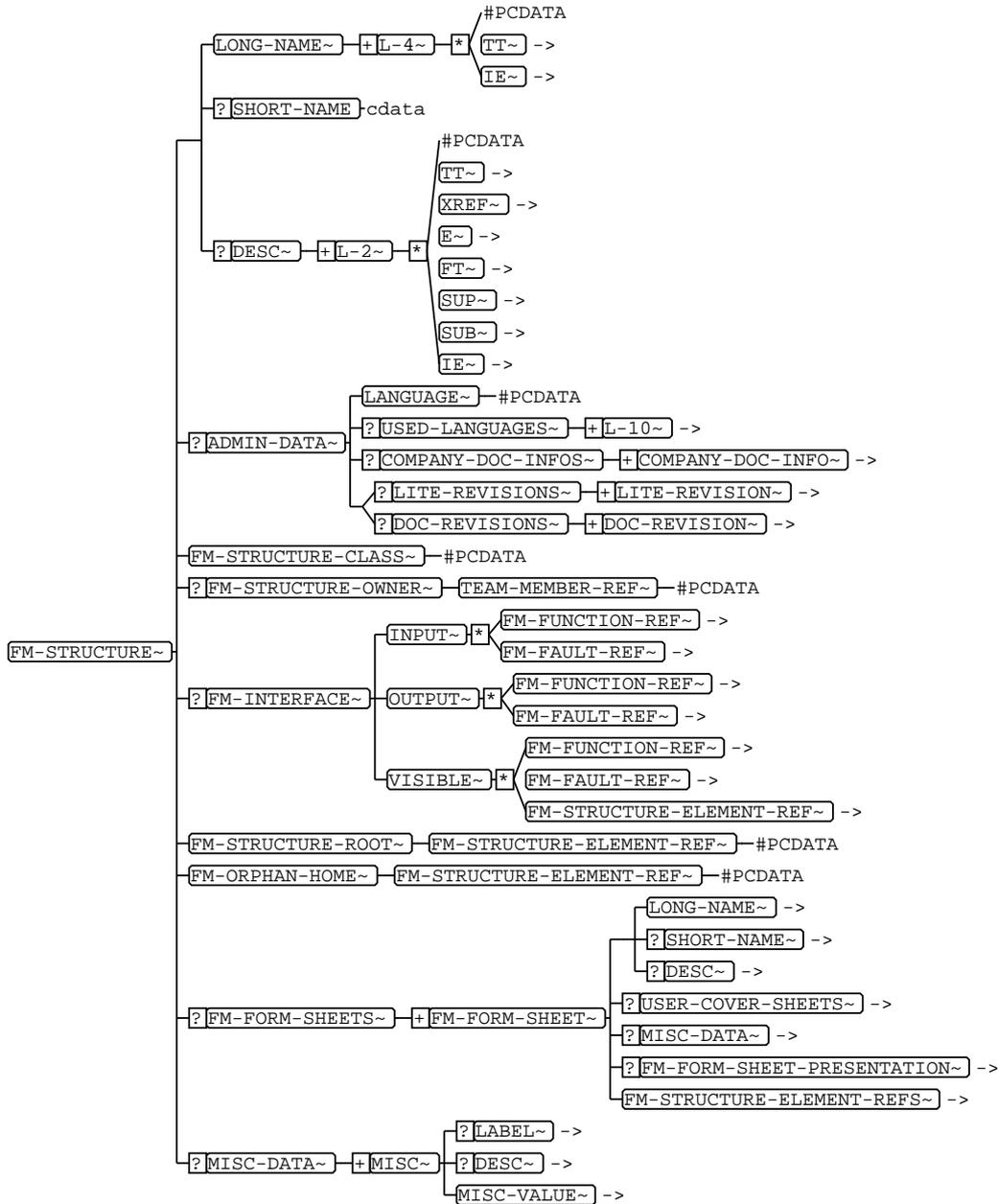


Figure 89: DTD-diagram for FM-STRUCTURE

Child elements **<long-name>** **<short-name>** **<desc>** **<admin-data>** **<fm-structure-class>** **<fm-structure-owner>** **<fm-interface>** **<fm-structure-root>** **<fm-orphan-home>** **<fm-form-sheets>** **<misc-data>**

parent elements **<fm-structures>**

**Table 88: Attributes for FM-STRUCTURE**

Name	Type	Class	Value	Remark
[F-ID-CLASS]	name	fixed	FM-STRUCTURE	
[F-NAMESPACE]	names	fixed	FM-FORM-SHEET	
[ID]	id	required		
[S]	cdata	implied		
[T]	cdata	implied		

Description

The FM-Structure is visualized by a tree. The root is one Fm-Structure-element. Each FM-Structure is owned by a team-member and must be classified as system or process (FM-Structure-Class).

## 7.13 FM-STRUCTURE-CLASS

`[FM-STRUCTURE-CLASS~]—#PCDATA`

**Figure 90: DTD-diagram for FM-STRUCTURE-CLASS**

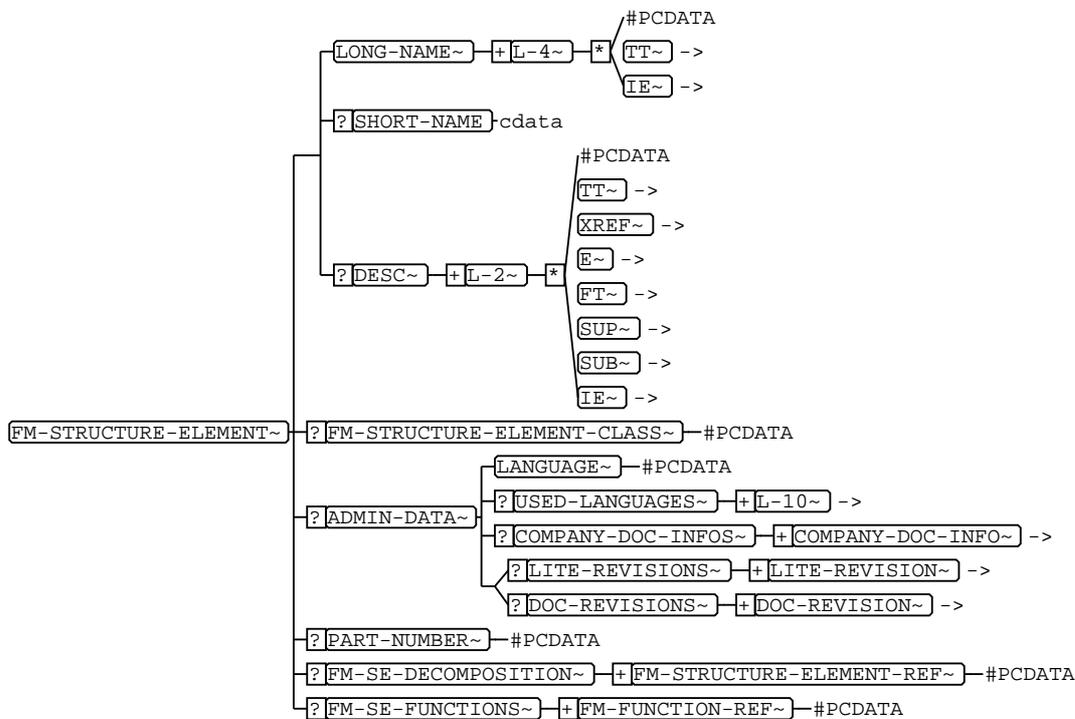
Child elements none

parent elements **<fm-structure>**

**Table 89: Attributes for FM-STRUCTURE-CLASS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

## 7.14 FM-STRUCTURE-ELEMENT



images/FM-STRUCTURE-ELEMENT.bmp

Figure 91: DTD-diagram for FM-STRUCTURE-ELEMENT

Child elements **<long-name>** **<short-name>** **<desc>** **<fm-structure-element-class>**  
**<admin-data>** **<part-number>** **<fm-se-decomposition>** **<fm-se-functions>**

parent elements **<fm-structure-elements>**

Table 90: Attributes for FM-STRUCTURE-ELEMENT

Name	Type	Class	Value	Remark
[F-ID-CLASS]	name	fixed	FM-STRUCTURE-ELEMENT	
[ID]	id	required		
[S]	cdata	implied		
[T]	cdata	implied		

### Description

The FM-Structure-Elements (systemelements) are the parts, of which a Structure (physically) exists. Fm-Structure-Elements are organized hierarchically as a tree (see Fm-Se-Decomposition). Each systemelement has a name and is described by Fm-Functions.

## 7.15 FM-STRUCTURE-ELEMENT-CLASS

`FM-STRUCTURE-ELEMENT-CLASS~`—#PCDATA

**Figure 92: DTD-diagram for FM-STRUCTURE-ELEMENT-CLASS**

Child elements none

parent elements `<fm-structure-element>`

**Table 91: Attributes for FM-STRUCTURE-ELEMENT-CLASS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

images/FM-STRUCTURE-ELEMENT-CLASS.bmp

## 7.16 FM-STRUCTURE-ELEMENT-REF

`FM-STRUCTURE-ELEMENT-REF~`—#PCDATA

**Figure 93: DTD-diagram for FM-STRUCTURE-ELEMENT-REF**

Child elements none

parent elements `<fm-orphan-home>` `<fm-se-decomposition>` `<fm-structure-element-refs>` `<fm-structure-root>` `<visible>`

**Table 92: Attributes for FM-STRUCTURE-ELEMENT-REF**

Name	Type	Class	Value	Remark
[FM-STRUCTURE-ELEMENT]	idref	required		

images/FM-STRUCTURE-ELEMENT-REF.bmp

**Table 92 (Cont.): Attributes for FM-STRUCTURE-ELEMENT-REF**

Name	Type	Class	Value	Remark
[HYNAMES]	names	fixed	LINKEND FM-STRUCTURE-ELEMENT	
[HYTIME]	name	fixed	CLINK	
[S]	cdata	implied		
[T]	cdata	implied		

Description

A reference to a FM-Structure-Element, f.e. in Fm-Se-Decomposition.

## 7.17 FM-STRUCTURE-ELEMENT-REFS

`FM-STRUCTURE-ELEMENT-REFS~` + `FM-STRUCTURE-ELEMENT-REF~` #PCDATA

**Figure 94: DTD-diagram for FM-STRUCTURE-ELEMENT-REFS**

Child elements `<fm-structure-element-ref>`

parent elements `<fm-form-sheet>`

**Table 93: Attributes for FM-STRUCTURE-ELEMENT-REFS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

images/FM-STRUCTURE-ELEMENTREFS.bmp

## 7.18 FM-STRUCTURE-ELEMENTS

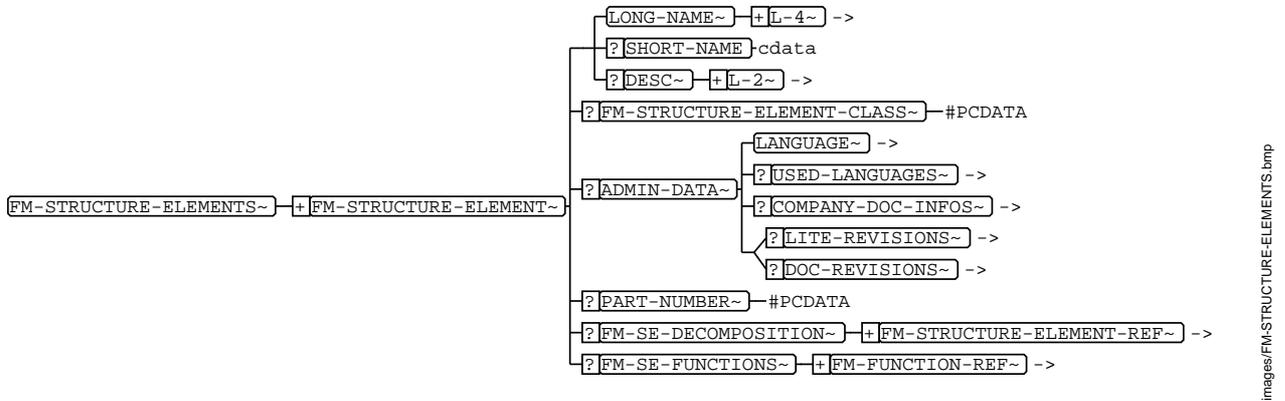


Figure 95: DTD-diagram for FM-STRUCTURE-ELEMENTS

Child elements **<fm-structure-element>**

parent elements **<msrfmea>**

Table 94: Attributes for FM-STRUCTURE-ELEMENTS

Name	Type	Class	Value	Remark
[S]	CDATA	implied		
[T]	CDATA	implied		

Description

This is a collection with all existing FM-Structure-Elements in the instance. Each FM-Structure-Element may be referenced by a FM-Structure-Element-Ref element.

## 7.19 FM-STRUCTURE-OWNER



Figure 96: DTD-diagram for FM-STRUCTURE-OWNER

Child elements **<team-member-ref>**

parent elements **<fm-structure>**

**Table 95: Attributes for FM-STRUCTURE-OWNER**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description

The Structure-Owner is "responsible" for the Fm-Structure. He determines the User-Access and the visibility of "his" structures.

## 7.20 FM-STRUCTURE-ROOT



**Figure 97: DTD-diagram for FM-STRUCTURE-ROOT**

Child elements **<fm-structure-element-ref>**

parent elements **<fm-structure>**

**Table 96: Attributes for FM-STRUCTURE-ROOT**

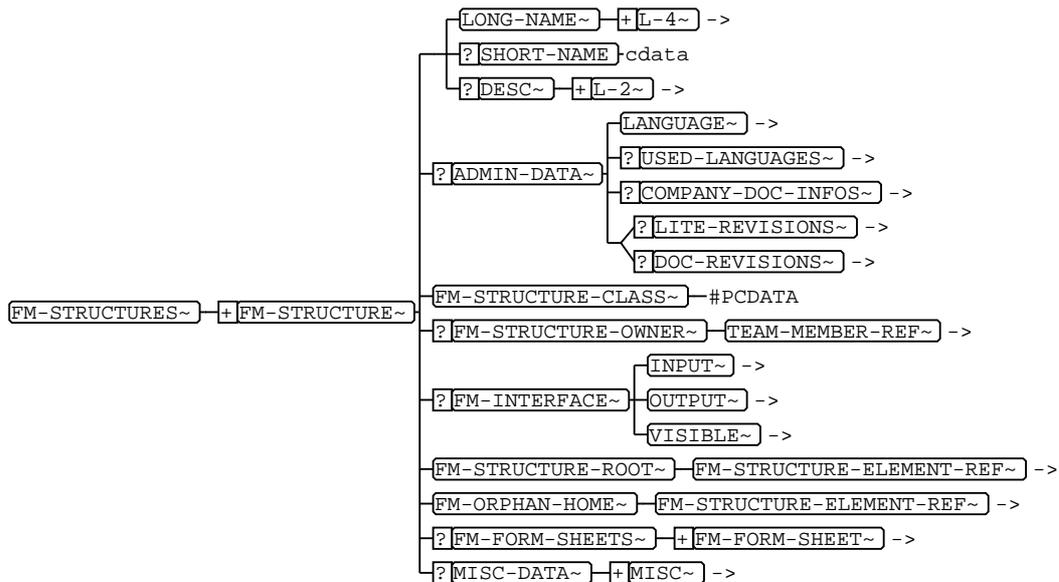
Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description

This is a reference to a FM-Structure-Element and describes the root of the structure-tree.

## 8 FM-STRUCTURES ... FT

### 8.1 FM-STRUCTURES



images/FM-STRUCTURES.bmp

**Figure 98: DTD-diagram for FM-STRUCTURES**

Child elements **<fm-structure>**

parent elements **<msrfmea>**

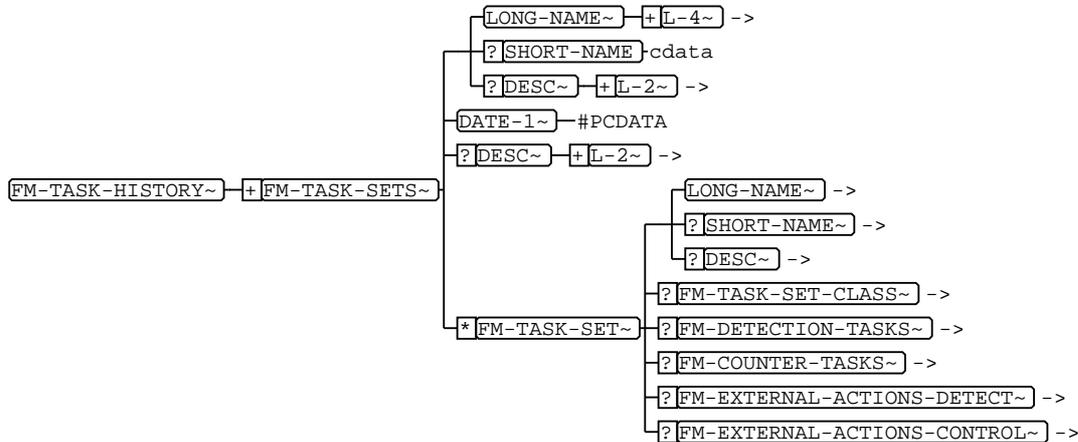
**Table 97: Attributes for FM-STRUCTURES**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description

This is a collection with all existing FM-Structures in the instance.

## 8.2 FM-TASK-HISTORY



images/FM-TASK-HISTORY.bmp

Figure 99: DTD-diagram for FM-TASK-HISTORY

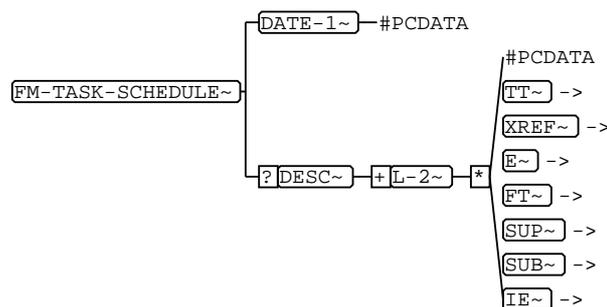
Child elements **<fm-task-sets>**

parent elements **<fm-fault>**

Table 98: Attributes for FM-TASK-HISTORY

Name	Type	Class	Value	Remark
[S]	CDATA	implied		
[T]	CDATA	implied		

## 8.3 FM-TASK-SCHEDULE



images/FM-TASK-SCHEDULE.bmp

Figure 100: DTD-diagram for FM-TASK-SCHEDULE

Child elements **<date-1>** **<desc>**

parent elements **<fm-action>**

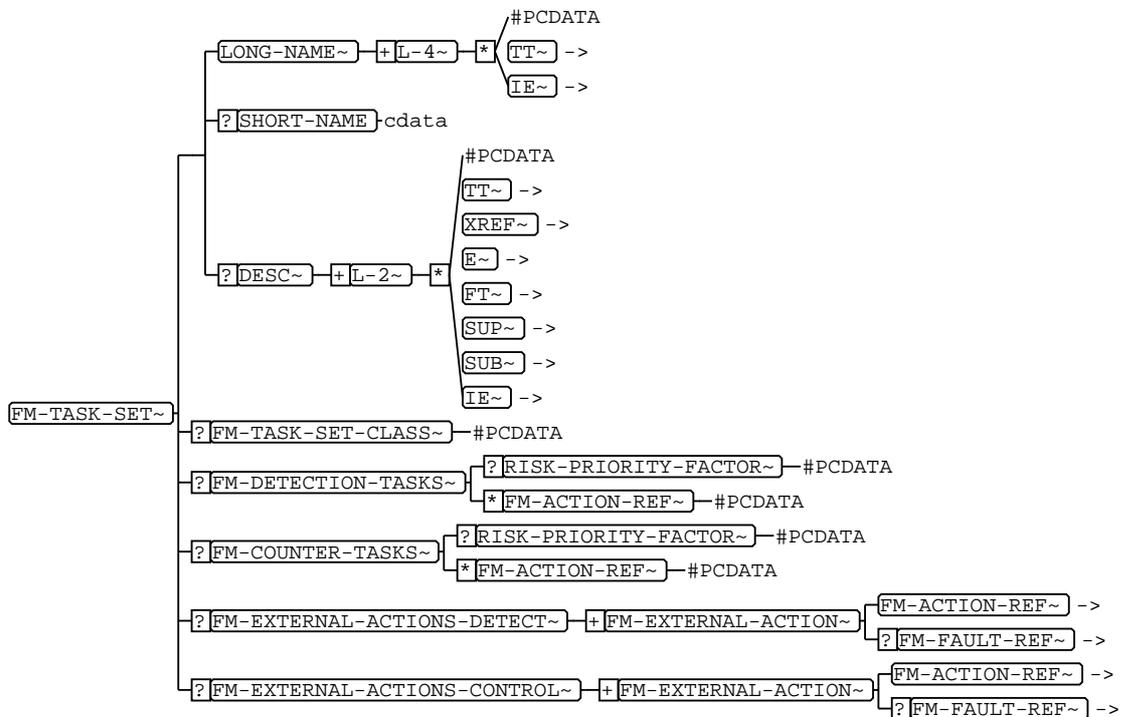
**Table 99: Attributes for FM-TASK-SCHEDULE**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description

Fm-Actions may have deadlines.

## 8.4 FM-TASK-SET



**Figure 101: DTD-diagram for FM-TASK-SET**

Child elements `<long-name>` `<short-name>` `<desc>` `<fm-task-set-class>` `<fm-detection-tasks>` `<fm-counter-tasks>` `<fm-external-actions-detect>` `<fm-external-actions-control>`

parent elements `<fm-task-sets>`

**Table 100: Attributes for FM-TASK-SET**

Name	Type	Class	Value	Remark
[F-ID-CLASS]	name	fixed	FM-TASK-SET	
[ID]	id	required		

**Table 100 (Cont.): Attributes for FM-TASK-SET**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description

Fm-Task-Sets are used to group the Fm-Actions by incidence and discovery.

## 8.5 FM-TASK-SET-CLASS

`FM-TASK-SET-CLASS~` — #PCDATA

**Figure 102: DTD-diagram for FM-TASK-SET-CLASS**

Child elements none

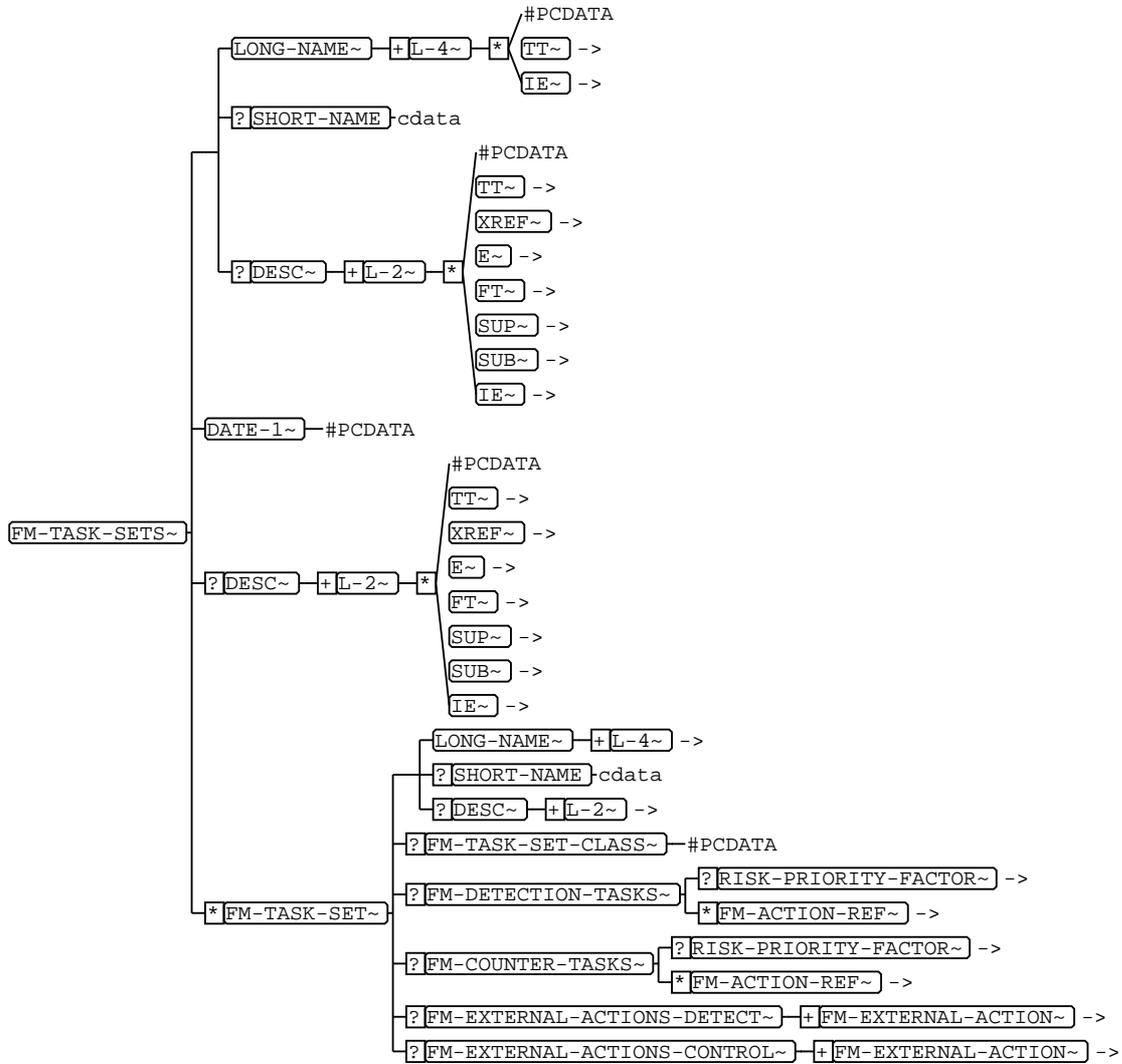
parent elements `<fm-task-set>`

**Table 101: Attributes for FM-TASK-SET-CLASS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

images/FM-TASK-SET-CLASS.bmp

## 8.6 FM-TASK-SETS



images/FM-TASK-SETS.bmp

Figure 103: DTD-diagram for FM-TASK-SETS

Child elements `<long-name>` `<short-name>` `<desc>` `<date-1>` `<desc>` `<fm-task-set>`

parent elements `<fm-task-history>`

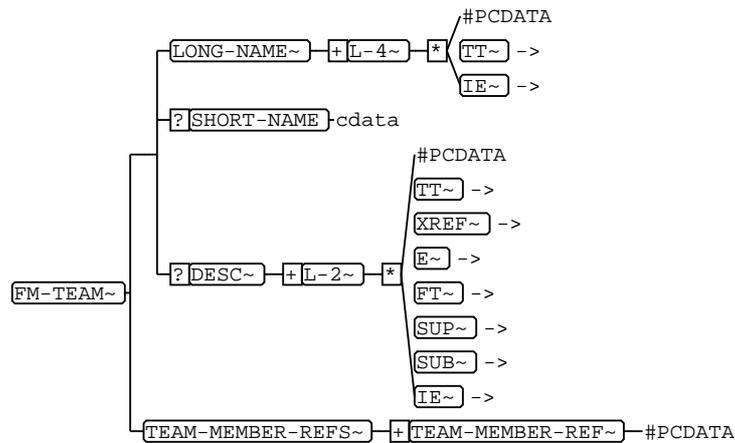
Table 102: Attributes for FM-TASK-SETS

Name	Type	Class	Value	Remark
[F-ID-CLASS]	name	fixed	FM-TASK-SETS	
[F-NAMESPACE]	names	fixed	FM-TASK-SET	
[ID]	id	required		

**Table 102 (Cont.): Attributes for FM-TASK-SETS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

## 8.7 FM-TEAM



images/FM-TEAM.bmp

**Figure 104: DTD-diagram for FM-TEAM**

Child elements **<long-name>** **<short-name>** **<desc>** **<team-member-refs>**

parent elements **<fm-teams>**

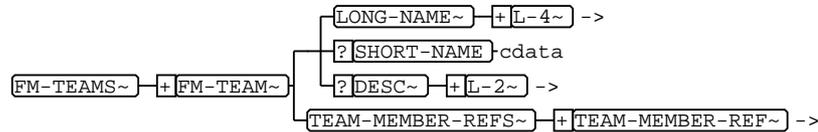
**Table 103: Attributes for FM-TEAM**

Name	Type	Class	Value	Remark
[F-ID-CLASS]	name	fixed	FM-TEAM	
[ID]	id	required		
[S]	cdata	implied		
[T]	cdata	implied		

### Description

A Fm-Team has references to Fm-Team-Members. Each team is named within the Long/Short-Name-element.

## 8.8 FM-TEAMS



images/FM-TEAMS.bmp

Figure 105: DTD-diagram for FM-TEAMS

Child elements **<fm-team>**

parent elements **<fm-head>**

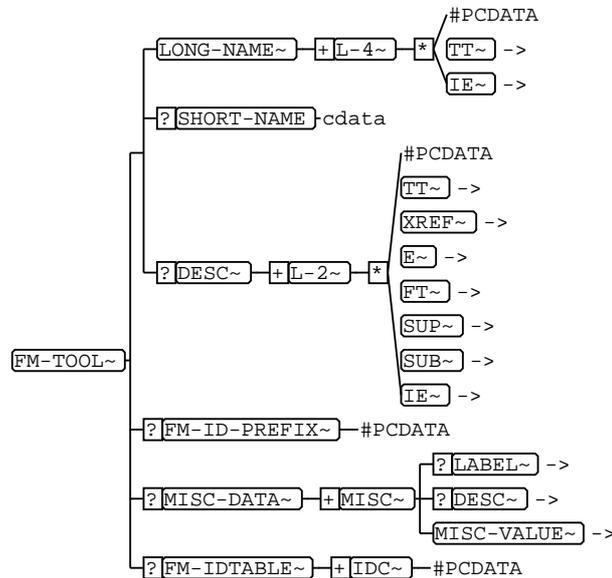
Table 104: Attributes for FM-TEAMS

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description

This is a collection with all existing FM-Teams in the instance.

## 8.9 FM-TOOL



images/FM-TOOL.bmp

Figure 106: DTD-diagram for FM-TOOL

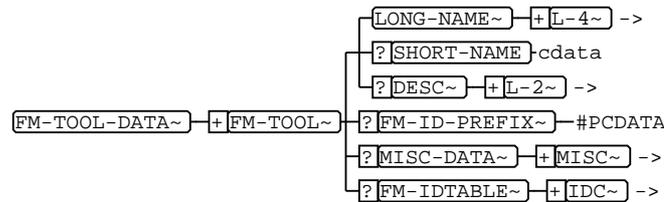
Child elements **<long-name>** **<short-name>** **<desc>** **<fm-id-prefix>** **<misc-data>**  
**<fm-idtable>**

parent elements **<fm-tool-data>**

**Table 105: Attributes for FM-TOOL**

Name	Type	Class	Value	Remark
[F-ID-CLASS]	name	fixed	FM-TOOL	
[ID]	id	required		
[ID-AWARE]	nmtkgrp	default	ID-AWARE ID-AWARE NO-ID-AWARE	
[S]	cdata	implied		
[T]	cdata	implied		

## 8.10 FM-TOOL-DATA



images/FM-TOOL-DATA.bmp

**Figure 107: DTD-diagram for FM-TOOL-DATA**

Child elements **<fm-tool>**

parent elements **<msrfmea>**

**Table 106: Attributes for FM-TOOL-DATA**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

## 8.11 FORMULA

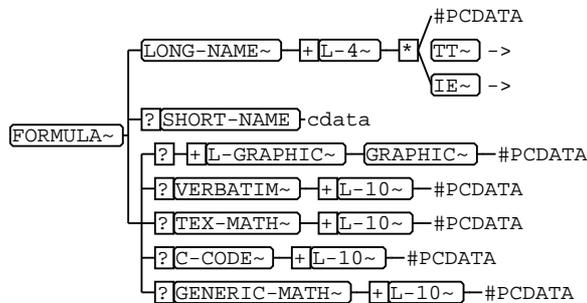


Figure 108: DTD-diagram for FORMULA

Child elements `<long-name>` `<short-name>` `<l-graphic>` `<verbatim>` `<tex-math>` `<c-code>` `<generic-math>`

parent elements `<chapter>` `<entry>` `<fm-form-sheet-presentation>` `<introduction>` `<item>` `<labeled-item>` `<ncoi-1>` `<remark>` `<topic-1>` `<topic-2>`

Table 107: Attributes for FORMULA

Name	Type	Class	Value	Remark
[F-ID-CLASS]	name	fixed	FORMULA	
[ID]	id	required		
[S]	cdata	implied		
[T]	cdata	implied		

Description Null

## 8.12 FT

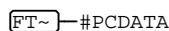


Figure 109: DTD-diagram for FT

Child elements none

parent elements `<l-1>` `<l-2>`

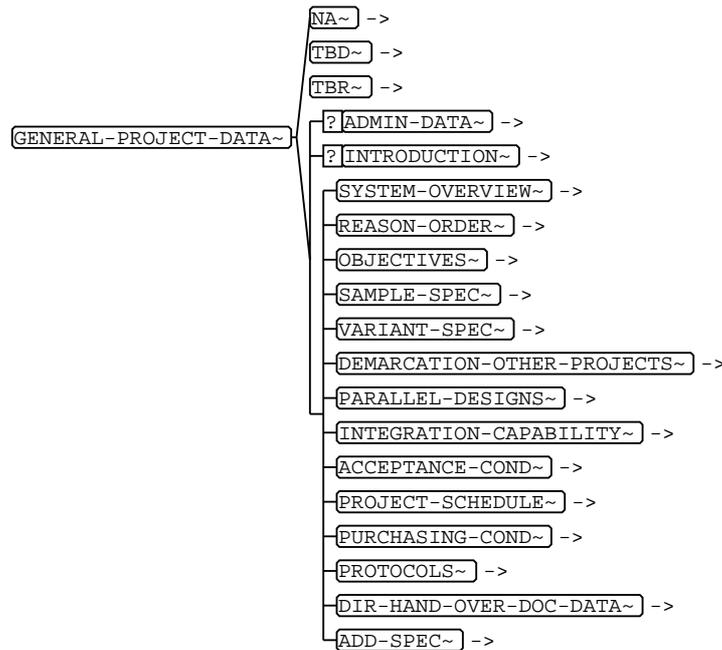
Table 108: Attributes for FT

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Identifies the body of a footnote in the document.

## 9 GENERAL-PROJECT-DATA ... GRAPHIC

### 9.1 GENERAL-PROJECT-DATA



images\GENERAL-PROJECT-DATA.bmp

Figure 110: DTD-diagram for GENERAL-PROJECT-DATA

Child elements `<na>` `<tbd>` `<tbr>` `<admin-data>` `<introduction>` `<system-overview>` `<reason-order>` `<objectives>` `<sample-spec>` `<variant-spec>` `<demarcation-other-projects>` `<parallel-designs>` `<integration-capability>` `<acceptance-cond>` `<project-schedule>` `<purchasing-cond>` `<protocols>` `<dir-hand-over-doc-data>` `<add-spec>`

parent elements `<company>`

Table 109: Attributes for GENERAL-PROJECT-DATA

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Specification of all general project data.

## 9.2 GENERIC-MATH

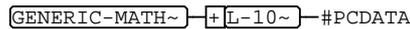


Figure 111: DTD-diagram for GENERIC-MATH

Child elements <l-10>

parent elements <formula>

Table 110: Attributes for GENERIC-MATH

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Null

## 9.3 GRAPHIC



Figure 112: DTD-diagram for GRAPHIC

Child elements none

parent elements <l-graphic>

Table 111: Attributes for GRAPHIC

Name	Type	Class	Value	Remark
[CATEGORY]	nmtkgrp	implied	BARCODE CON- CEPTUAL EN- GINEERING FLOWCHART GRAPH LO- GO SCHEMATIC WAVEFORM	
[FILENAME]	cdata	required		
[FIT]	number	default	0	
[HEIGHT]	cdata	implied		

**Table 111 (Cont.): Attributes for GRAPHIC**

Name	Type	Class	Value	Remark
[NOTATION]	cdata	required		
[S]	cdata	implied		
[SCALE]	cdata	implied		
[T]	cdata	implied		
[WIDTH]	cdata	implied		

Description Identifies a graphic. A graphic is stored in difference formats (notation attribute) and is used as an illustration in the document.

## 10 HOMEPAGE ... HOMEPAGE

### 10.1 HOMEPAGE

#PCDATA

**Figure 113: DTD-diagram for HOMEPAGE**

Child elements none

parent elements <team-member>

**Table 112: Attributes for HOMEPAGE**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Homepage of a team member

# 11 IDC ... ITEM-LABEL

## 11.1 IDC

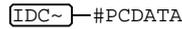


Figure 114: DTD-diagram for IDC

Child elements none

parent elements <fm-idtable>

Table 113: Attributes for IDC

Name	Type	Class	Value	Remark
[MAPPED-ID]	CDATA	required		
[S]	CDATA	implied		
[T]	CDATA	implied		

images/IDC.bmp

## 11.2 IE

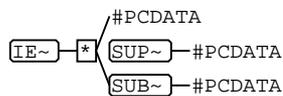


Figure 115: DTD-diagram for IE

Child elements <sup> <sub>

parent elements <l-1> <l-2> <l-4> <long-name-1>

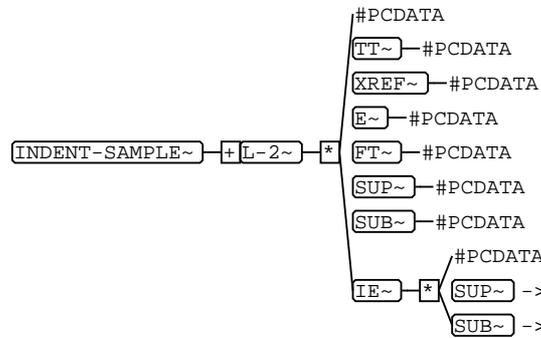
Table 114: Attributes for IE

Name	Type	Class	Value	Remark
[S]	CDATA	implied		
[T]	CDATA	implied		
[TYPE]	CDATA	implied		

images/IE.bmp

Description Identifies text of an item to be extracted for the index.

## 11.3 INDENT-SAMPLE



images/INDENT-SAMPLE.bmp

Figure 116: DTD-diagram for INDENT-SAMPLE

Child elements <l-2>

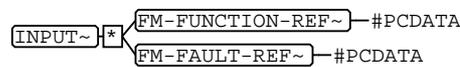
parent elements <labeled-list>

Table 115: Attributes for INDENT-SAMPLE

Name	Type	Class	Value	Remark
[ITEM-LABEL-POS]	nmtkgrp	default	NO-NEWLINE NO-NEWLINE NEWLINE NEWLINE-IF-NECESSARY	
[S]	cdata	implied		
[T]	cdata	implied		

Description Null

## 11.4 INPUT



images/INPUT.bmp

Figure 117: DTD-diagram for INPUT

Child elements <fm-function-ref> <fm-fault-ref>

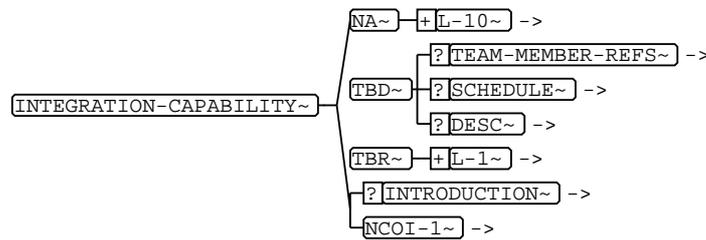
parent elements <fm-interface>

**Table 116: Attributes for INPUT**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description This element defines the input of the actual function.

## 11.5 INTEGRATION-CAPABILITY



images/INTEGRATION-CAPABILITY.bmp

**Figure 118: DTD-diagram for INTEGRATION-CAPABILITY**

Child elements `<na>` `<tbd>` `<tbr>` `<introduction>` `<ncoi-1>`

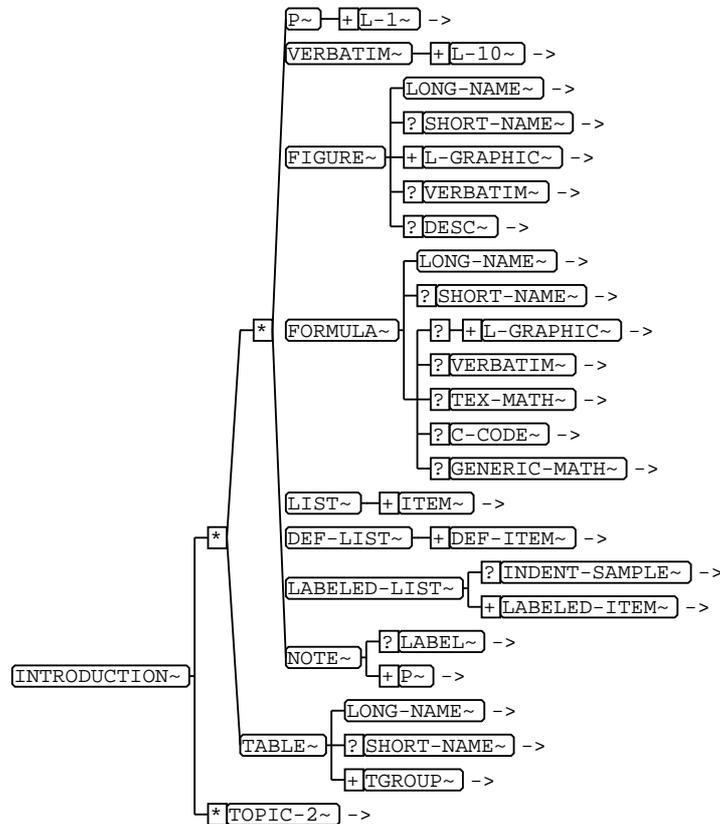
parent elements `<general-project-data>`

**Table 117: Attributes for INTEGRATION-CAPABILITY**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description This element contains all information about the integration capability of this project.

## 11.6 INTRODUCTION



images/INTRODUCTION.bmp

Figure 119: DTD-diagram for INTRODUCTION

Child elements `<p>` `<verbatim>` `<figure>` `<formula>` `<list>` `<def-list>` `<labeled-list>` `<note>` `<table>` `<topic-2>`

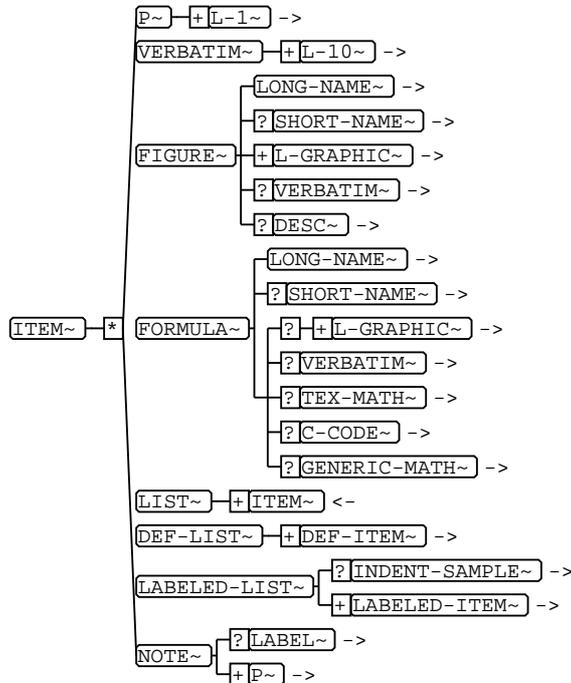
parent elements `<acceptance-cond>` `<add-spec>` `<company-revision-info>` `<demarcation-other-projects>` `<dir-hand-over-doc-data>` `<general-project-data>` `<integration-capability>` `<objectives>` `<parallel-designs>` `<project-schedule>` `<protocols>` `<purchasing-cond>` `<reason-order>` `<sample-spec>` `<system-overview>` `<variant-spec>`

Table 118: Attributes for INTRODUCTION

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description This element can be used to create an introduction.

## 11.7 ITEM



images\ITEM.bmp

Figure 120: DTD-diagram for ITEM

Child elements `<p>` `<verbatim>` `<figure>` `<formula>` `<list>` `<def-list>` `<labeled-list>` `<note>`

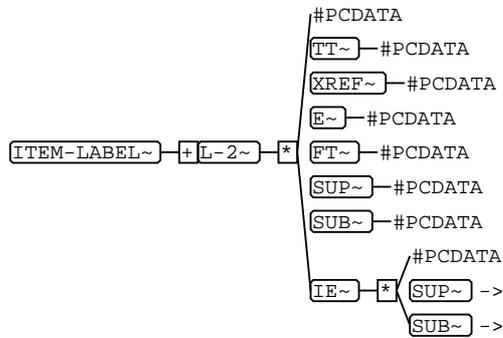
parent elements `<list>`

Table 119: Attributes for ITEM

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Identifies an item typically occurring within a list.

## 11.8 ITEM-LABEL



images/ITEM-LABEL.bmp

Figure 121: DTD-diagram for ITEM-LABEL

Child elements <l-2>

parent elements <labeled-item>

Table 120: Attributes for ITEM-LABEL

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Null

## 12 L-1 ... LONG-NAME-1

### 12.1 L-1

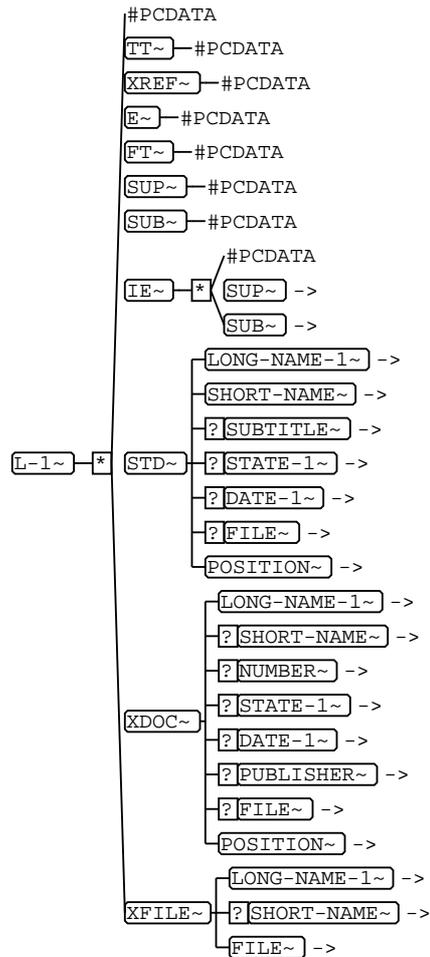


Figure 122: DTD-diagram for L-1

Child elements <tt> <xref> <e> <ft> <sup> <sub> <ie> <std> <xdoc> <xfile>

parent elements <p> <tbr>

Table 121: Attributes for L-1

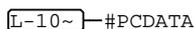
Name	Type	Class	Value	Remark
[L]	CDATA	required		
[S]	CDATA	implied		

**Table 121 (Cont.): Attributes for L-1**

Name	Type	Class	Value	Remark
[T]	cdata	implied		

## 12.2

### L-10

 #PCDATA

images/L-10.bmp

**Figure 123: DTD-diagram for L-10**

Child elements none

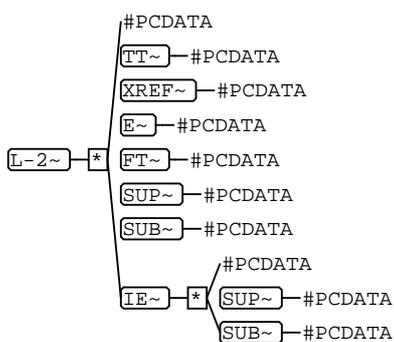
parent elements `<c-code>` `<date>` `<doc-label>` `<generic-math>` `<na>` `<revision-label>`  
`<role>` `<state>` `<tex-math>` `<used-languages>` `<verbatim>`

**Table 122: Attributes for L-10**

Name	Type	Class	Value	Remark
[L]	cdata	required		
[S]	cdata	implied		
[T]	cdata	implied		

## 12.3

### L-2



images/L-2.bmp

**Figure 124: DTD-diagram for L-2**

Child elements `<tt>` `<xref>` `<e>` `<ft>` `<sup>` `<sub>` `<ie>`

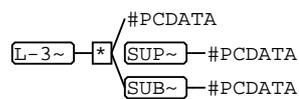
parent elements `<change>` `<desc>` `<fm-action-comment>` `<indent-sample>` `<item-label>` `<reason>`

**Table 123: Attributes for L-2**

Name	Type	Class	Value	Remark
[L]	cdata	required		
[S]	cdata	implied		
[T]	cdata	implied		

## 12.4

### L-3



images/L-3.bmp

**Figure 125: DTD-diagram for L-3**

Child elements `<sup>` `<sub>`

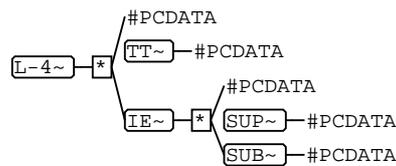
parent elements `<text>` `<unit>`

**Table 124: Attributes for L-3**

Name	Type	Class	Value	Remark
[L]	cdata	required		
[S]	cdata	implied		
[T]	cdata	implied		

## 12.5

### L-4



images/L-4.bmp

**Figure 126: DTD-diagram for L-4**

Child elements `<tt>` `<ie>`

parent elements `<label>` `<long-name>`

**Table 125: Attributes for L-4**

Name	Type	Class	Value	Remark
[L]	cdata	required		
[S]	cdata	implied		
[T]	cdata	implied		

## 12.6 L-GRAPHIC



Figure 127: DTD-diagram for L-GRAPHIC

Child elements **<graphic>**

parent elements **<figure>** **<formula>**

Table 126: Attributes for L-GRAPHIC

Name	Type	Class	Value	Remark
[L]	CDATA	required		
[S]	CDATA	implied		
[T]	CDATA	implied		

## 12.7 LABEL

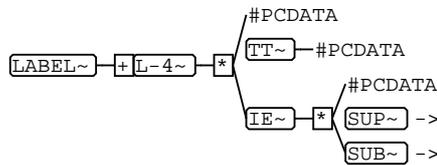


Figure 128: DTD-diagram for LABEL

Child elements **<l-4>**

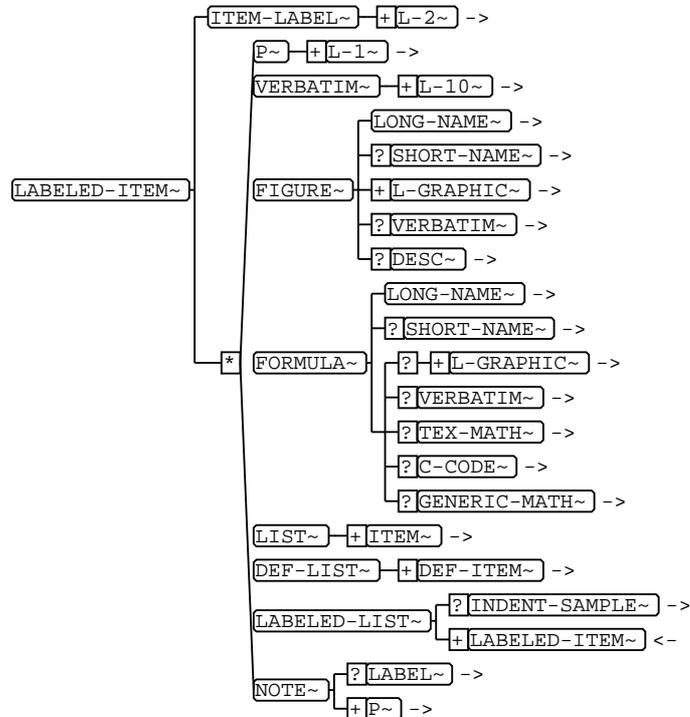
parent elements **<misc>** **<note>** **<prms>**

Table 127: Attributes for LABEL

Name	Type	Class	Value	Remark
[S]	CDATA	implied		
[T]	CDATA	implied		

Description This element contents a short label.

## 12.8 LABELED-ITEM



images/LABELED-ITEM.bmp

Figure 129: DTD-diagram for LABELED-ITEM

Child elements `<item-label>` `<p>` `<verbatim>` `<figure>` `<formula>` `<list>` `<def-list>`  
`<labeled-list>` `<note>`

parent elements `<labeled-list>`

Table 128: Attributes for LABELED-ITEM

Name	Type	Class	Value	Remark
[HELP-ENTRY]	cdata	implied		
[S]	cdata	implied		
[T]	cdata	implied		

Description Null

## 12.9 LABELLED-LIST

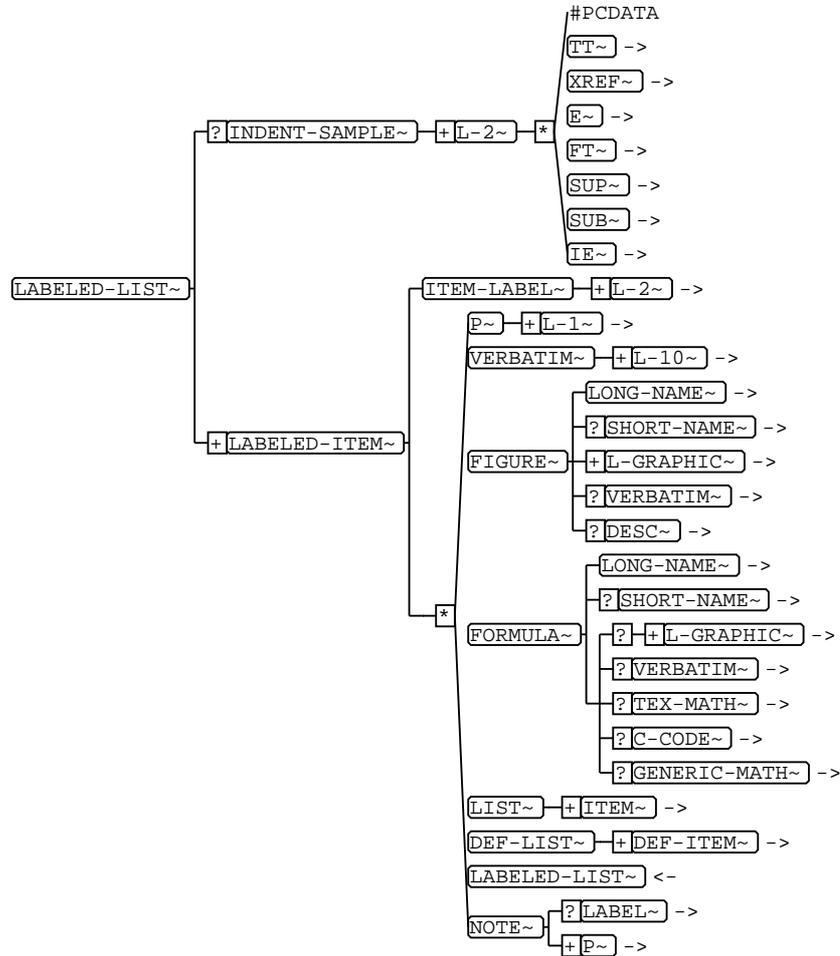


Figure 130: DTD-diagram for LABELLED-LIST

Child elements `<indent-sample>` `<labeled-item>`

parent elements `<chapter>` `<entry>` `<fm-form-sheet-presentation>` `<introduction>`  
`<item>` `<labeled-item>` `<ncoi-1>` `<remark>` `<topic-1>` `<topic-2>`

Table 129: Attributes for LABELLED-LIST

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Null

## 12.10 LANGUAGE

`LANGUAGE~` - #PCDATA

Figure 131: DTD-diagram for LANGUAGE

Child elements none

parent elements `<admin-data>`

Table 130: Attributes for LANGUAGE

Name	Type	Class	Value	Remark
[S]	CDATA	implied		
[T]	CDATA	implied		

Description Defines the language of the document (fragment).

## 12.11 LIST

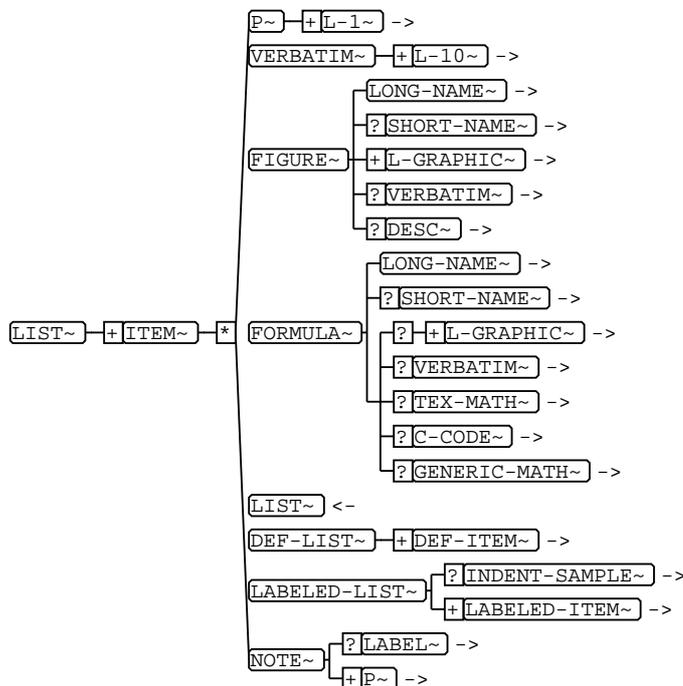


Figure 132: DTD-diagram for LIST

Child elements `<item>`

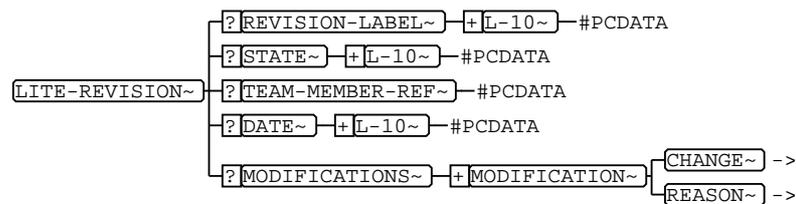
parent elements **<chapter>** **<entry>** **<fm-form-sheet-presentation>** **<introduction>**  
**<item>** **<labeled-item>** **<ncoi-1>** **<remark>** **<topic-1>** **<topic-2>**

**Table 131: Attributes for LIST**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		
[TYPE]	nmtkgrp	required	UNNUMBER NUMBER	

Description Identifies a list which is composed of one or more list items. There are two types of lists, numbered and unnumbered lists. They are classified by the type attribute.

## 12.12 LITE-REVISION



images/LITE-REVISION.bmp

**Figure 133: DTD-diagram for LITE-REVISION**

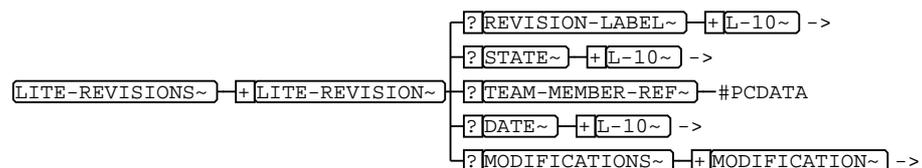
Child elements **<revision-label>** **<state>** **<team-member-ref>** **<date>** **<modifications>**

parent elements **<lite-revisions>**

**Table 132: Attributes for LITE-REVISION**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

## 12.13 LITE-REVISIONS



images/LITE-REVISIONS.bmp

**Figure 134: DTD-diagram for LITE-REVISIONS**

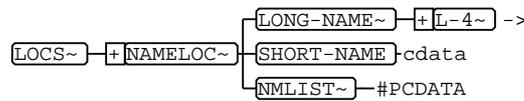
Child elements **<lite-revision>**

parent elements **<admin-data>**

**Table 133: Attributes for LITE-REVISIONS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

## 12.14 LOCS



images/LOCS.bmp

**Figure 135: DTD-diagram for LOCS**

Child elements **<nameloc>**

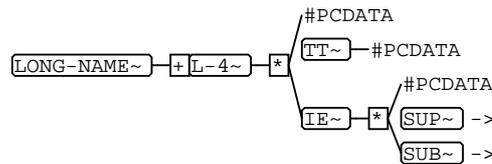
parent elements **<msrfmea>**

**Table 134: Attributes for LOCS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Null

## 12.15 LONG-NAME



images/LONG-NAME.bmp

**Figure 136: DTD-diagram for LONG-NAME**

Child elements **<l-4>**

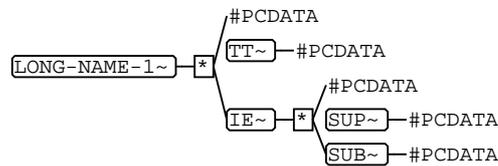
parent elements **<chapter> <company> <def-item> <figure> <fm-action> <fm-action-type> <fm-fault> <fm-fault-type> <fm-form-sheet> <fm-function> <fm-function-type> <fm-structure> <fm-structure-element> <fm-task-set> <fm-task-sets> <fm-team> <fm-tool> <formula> <name-loc> <prm> <sample> <table> <team-member> <topic-1> <topic-2> <variant-char> <variant-def>**

**Table 135: Attributes for LONG-NAME**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Defines a long name (label, title). This element exists only in elements with identifier.

## 12.16 LONG-NAME-1



images/LONG-NAME-1.bmp

**Figure 137: DTD-diagram for LONG-NAME-1**

Child elements <tt> <ie>

parent elements <std> <xdoc> <xfile>

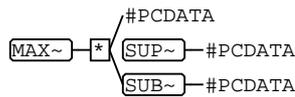
**Table 136: Attributes for LONG-NAME-1**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Null

## 13 MAX ... MSRFMEA

### 13.1 MAX



images/MAX.bmp

Figure 138: DTD-diagram for MAX

Child elements **<sup>** **<sub>**

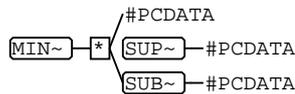
parent elements **<prm-char>**

Table 137: Attributes for MAX

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description This element defines the maximum value of a typical range. When you define **<min>** and **<max>** you have to leave **<typ>** empty.

### 13.2 MIN



images/MIN.bmp

Figure 139: DTD-diagram for MIN

Child elements **<sup>** **<sub>**

parent elements **<prm-char>**

Table 138: Attributes for MIN

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Defines the minimum value of a typical range. When you define **<min>** and **<max>** you have to leave **<typ>** empty.

### 13.3 MISC

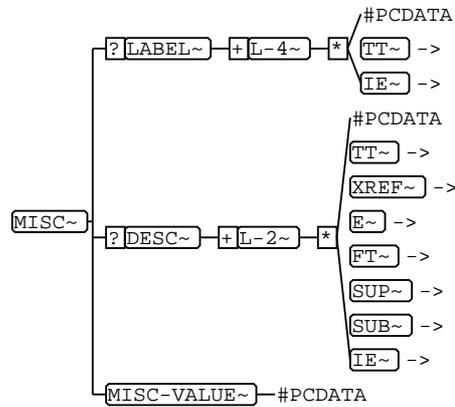


Figure 140: DTD-diagram for MISC

Child elements <label> <desc> <misc-value>

parent elements <misc-data>

Table 139: Attributes for MISC

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

### 13.4 MISC-DATA

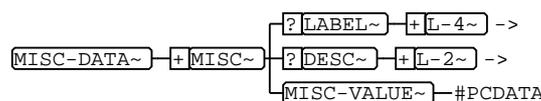


Figure 141: DTD-diagram for MISC-DATA

Child elements <misc>

parent elements <fm-form-sheet> <fm-structure> <fm-tool> <user-cover-sheet>

Table 140: Attributes for MISC-DATA

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

## 13.5 MISC-VALUE

`MISC-VALUE~` — #PCDATA

Figure 142: DTD-diagram for MISC-VALUE

Child elements none

parent elements `<misc>`

Table 141: Attributes for MISC-VALUE

Name	Type	Class	Value	Remark
[FIELD-NAME]	cdata	required		
[S]	cdata	implied		
[T]	cdata	implied		

## 13.6 MODIFICATION

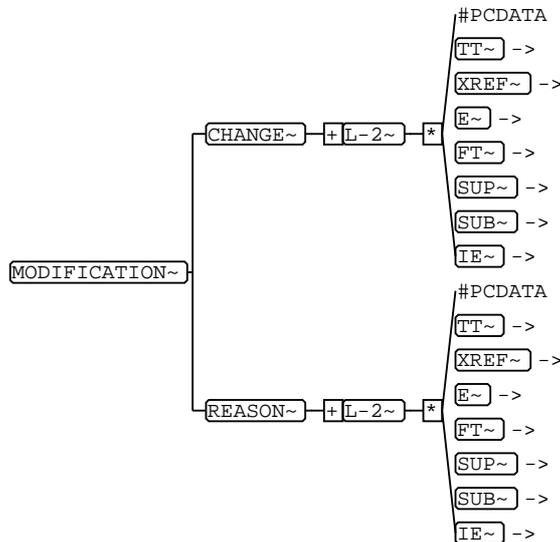


Figure 143: DTD-diagram for MODIFICATION

Child elements `<change>` `<reason>`

parent elements `<modifications>`

**Table 142: Attributes for MODIFICATION**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		
[TYPE]	nmtkgrp	required	CONTENT-RELATED DOC-RELATED	

Description Description of a modification (value before and after the changes, position of change).

## 13.7 MODIFICATIONS



**Figure 144: DTD-diagram for MODIFICATIONS**

Child elements **<modification>**

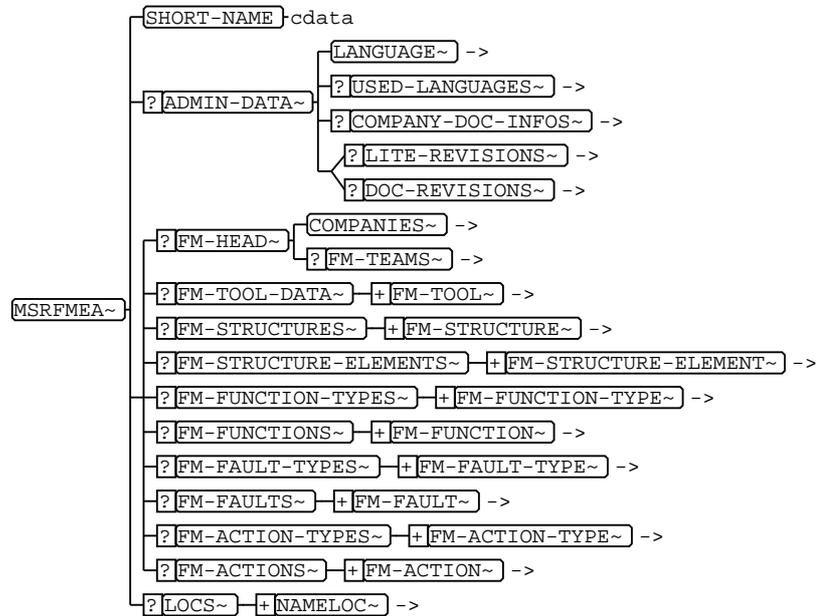
parent elements **<doc-revision>** **<lite-revision>**

**Table 143: Attributes for MODIFICATIONS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description This element contains all changes that are made in the document.

## 13.8 MSRFMEA



images/MSRFMEA.bmp

Figure 145: DTD-diagram for MSRFMEA

Child elements **<short-name>** **<admin-data>** **<fm-head>** **<fm-tool-data>** **<fm-structures>** **<fm-structure-elements>** **<fm-function-types>** **<fm-functions>** **<fm-fault-types>** **<fm-faults>** **<fm-action-types>** **<fm-actions>** **<locs>**

parent elements none



**Table 144: Attributes for MSRFMEA**

Name	Type	Class	Value	Remark
[F-NAMESPACE]	names	fixed	CHAPTER COMPAN Y DEF-ITEM FIG- URE FM-ACTION FM-ACTION-TYPE FM-FAULT FM- FAULT-TYPE FM- FORM-SHEET FM- FUNCTION FM- FUNCTION-TYPE FM-STRUCTURE FM-STRUCTURE- ELEMENT FM- TASK-SET FM- TASK-SETS FM- TEAM FM-TOOL FORMULA PRM SAMPLE STD TABLE TEAM- MEMBER TOP- IC VARIANT-CHAR VARIANT-DEF X- DOC XFILE EX- TERNAL	
[F-PUBID]	cdata	fixed	-//MSR//DTD M- SR FMEA DT- D:V1.5.0:ML:MSRFMEA.DTD//EN	
[HYTIME]	name	fixed	HYDOC	
[PUBID]	cdata	default	-//MSR//DTD M- SR FMEA DT- D:V1.5.0:ML:MSRFMEA.DTD//EN	
[S]	cdata	implied		
[T]	cdata	implied		

## 14 NA ... NUMBER

### 14.1 NA

NA~+L-10~#PCDATA

Figure 146: DTD-diagram for NA

Child elements <l-10>

parent elements <acceptance-cond> <add-spec> <demarcation-other-projects> <dir-hand-over-doc-data> <general-project-data> <integration-capability> <objectives> <parallel-designs> <project-schedule> <protocols> <purchasing-cond> <reason-order> <sample-spec> <system-overview> <variant-spec>

Table 145: Attributes for NA

Name	Type	Class	Value	Remark
[S]	CDATA	implied		
[T]	CDATA	implied		

Description Specifies that this information (see parent element) isn't applicable for this project. The context of this element describes the reason why the information isn't applicable.

### 14.2 NAMELOC

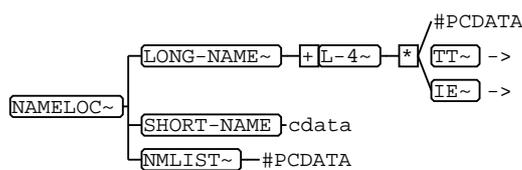


Figure 147: DTD-diagram for NAMELOC

Child elements <long-name> <short-name> <nmlist>

parent elements <locs>

Table 146: Attributes for NAMELOC

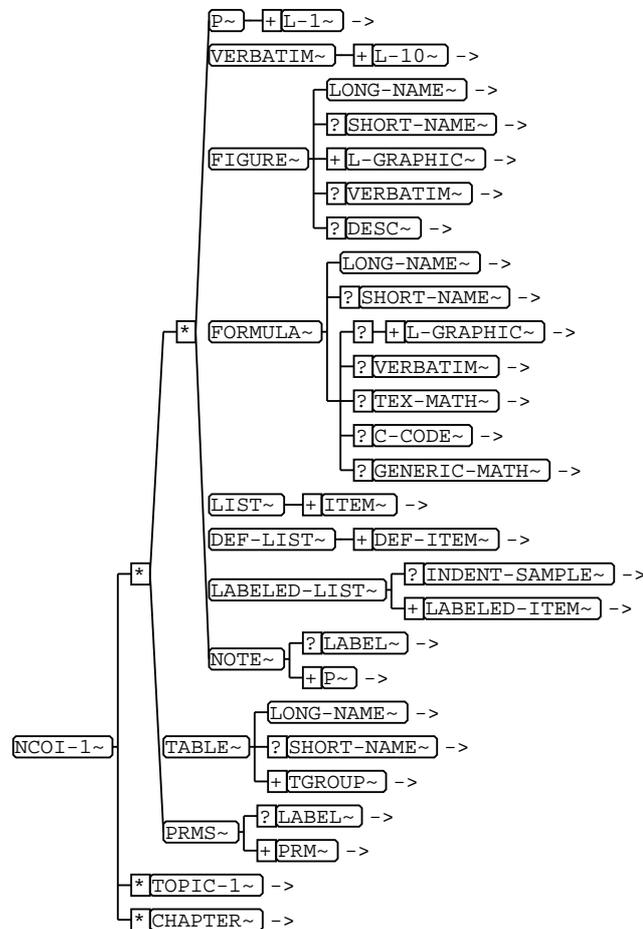
Name	Type	Class	Value	Remark
[HYTIME]	name	fixed	NAMELOC	
[ID]	id	required		

**Table 146 (Cont.): Attributes for NAMELOC**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Null

## 14.3 NCOI-1



**Figure 148: DTD-diagram for NCOI-1**

Child elements `<p>` `<verbatim>` `<figure>` `<formula>` `<list>` `<def-list>` `<labeled-list>`  
`<note>` `<table>` `<prms>` `<topic-1>` `<chapter>`

parent elements `<acceptance-cond>` `<add-spec>` `<demarcation-other-projects>`  
`<dir-hand-over-doc-data>` `<integration-capability>` `<objectives>`

<parallel-designs> <project-schedule> <protocols> <purchasing-cond> <reason-order> <sample> <system-overview>

**Table 147: Attributes for NCOI-1**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description This element contents the following objects to define a 'none content orientend information': topics tables figures paragraphs lists Only use these objects when you can't define all your informations in other elements!

## 14.4 NMLIST

 NMLIST~ - #PCDATA

**Figure 149: DTD-diagram for NMLIST**

Child elements none

parent elements <nameloc>

**Table 148: Attributes for NMLIST**

Name	Type	Class	Value	Remark
[DOCORSUB]	entity	implied		
[HYTIME]	name	fixed	NMLIST	
[NAMETYPE]	nmtkgrp	default	ELEMENT ENTITY ELEMENT	
[S]	cdata	implied		
[T]	cdata	implied		

Description Null

## 14.5 NOTE

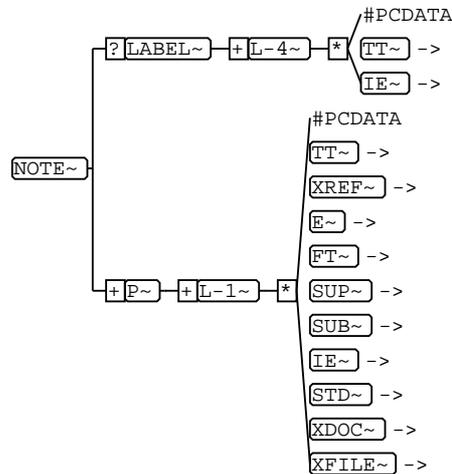


Figure 150: DTD-diagram for NOTE

Child elements `<label>` `<p>`

parent elements `<chapter>` `<entry>` `<fm-form-sheet-presentation>` `<introduction>`  
`<item>` `<labeled-item>` `<ncoi-1>` `<remark>` `<topic-1>` `<topic-2>`

Table 149: Attributes for NOTE

Name	Type	Class	Value	Remark
[NOTE-TYPE]	nmtkgrp	required	CAUTION HINT TIP INSTRUCTION EX- ERCISE OTHER	
[S]	cdata	implied		
[T]	cdata	implied		
[USER-DEFINED-TYPE]	cdata	implied		

Description Null

## 14.6 NUMBER



Figure 151: DTD-diagram for NUMBER

Child elements none



parent elements <xdoc>

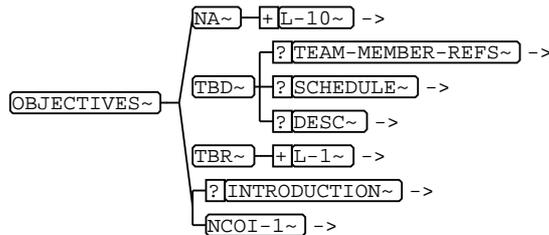
**Table 150: Attributes for NUMBER**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Definition of a number.

## 15 OBJECTIVES ... OUTPUT

### 15.1 OBJECTIVES



images/OBJECTIVES.bmp

Figure 152: DTD-diagram for OBJECTIVES

Child elements `<na>` `<tbd>` `<tbr>` `<introduction>` `<ncoi-1>`

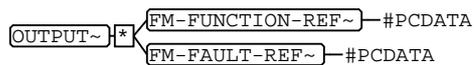
parent elements `<general-project-data>`

Table 151: Attributes for OBJECTIVES

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description In this element the objectives of the project can be specified.

### 15.2 OUTPUT



images/OUTPUT.bmp

Figure 153: DTD-diagram for OUTPUT

Child elements `<fm-function-ref>` `<fm-fault-ref>`

parent elements `<fm-interface>`

Table 152: Attributes for OUTPUT

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Definition of the output of a function.

## 16 P ... PURCHASING-COND

### 16.1 P

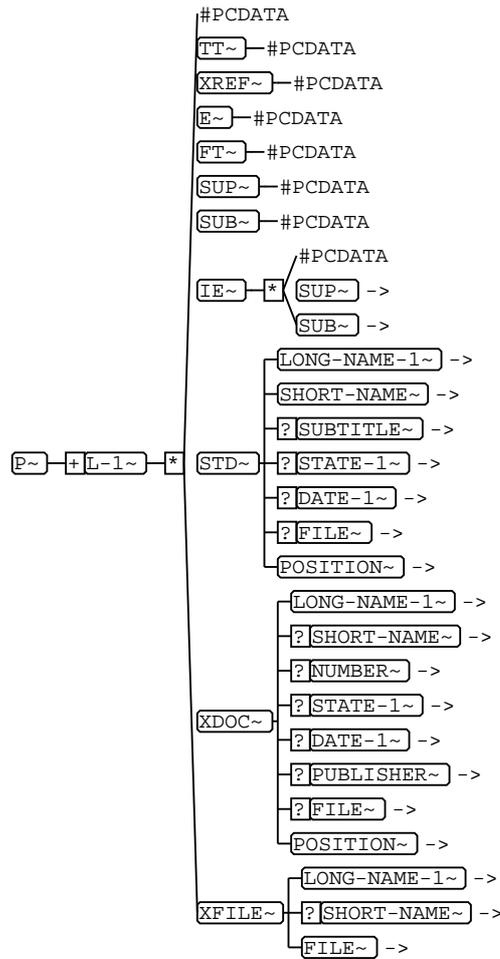


Figure 154: DTD-diagram for P

Child elements <l-1>

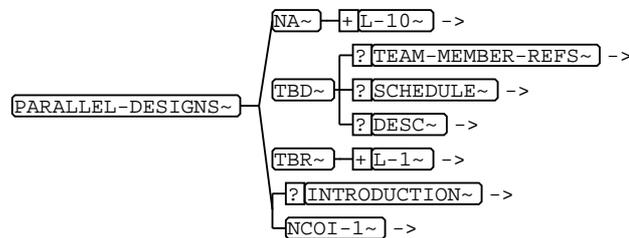
parent elements <chapter> <cond> <def> <entry> <fm-form-sheet-presentation>  
<introduction> <item> <labeled-item> <ncoi-1> <note> <remark>  
<topic-1> <topic-2>

**Table 153: Attributes for P**

Name	Type	Class	Value	Remark
[HELP-ENTRY]	cdata	implied		
[S]	cdata	implied		
[T]	cdata	implied		

Description Identifies text within a paragraph.

## 16.2 PARALLEL-DESIGNS



images/PARALLEL-DESIGNS.bmp

**Figure 155: DTD-diagram for PARALLEL-DESIGNS**

Child elements **<na>** **<tbd>** **<tbr>** **<introduction>** **<ncoi-1>**

parent elements **<general-project-data>**

**Table 154: Attributes for PARALLEL-DESIGNS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Description of projects with concurrent informations (part type specifications).

## 16.3 PART-NUMBER



images/PART-NUMBER.bmp

**Figure 156: DTD-diagram for PART-NUMBER**

Child elements none

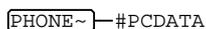
parent elements **<fm-structure-element>**

**Table 155: Attributes for PART-NUMBER**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description This element defines the number of a part.

## 16.4 PHONE



**Figure 157: DTD-diagram for PHONE**

Child elements none

parent elements <team-member>

**Table 156: Attributes for PHONE**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Definition of a phone number.

## 16.5 POSITION



**Figure 158: DTD-diagram for POSITION**

Child elements none

parent elements <std> <xdoc>

**Table 157: Attributes for POSITION**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Describes the important position in the standard or external document.

## 16.6 PRIVATE-CODE

`PRIVATE-CODE~` — #PCDATA

Figure 159: DTD-diagram for PRIVATE-CODE

Child elements none

parent elements `<private-codes>`

Table 158: Attributes for PRIVATE-CODE

Name	Type	Class	Value	Remark
[S]	CDATA	implied		
[T]	CDATA	implied		
[TYPE]	CDATA	implied		

Description This element allows you to interchange one private (encoded) data.

## 16.7 PRIVATE-CODES

`PRIVATE-CODES~` + `PRIVATE-CODE~` — #PCDATA

Figure 160: DTD-diagram for PRIVATE-CODES

Child elements `<private-code>`

parent elements `<company-doc-info>`

Table 159: Attributes for PRIVATE-CODES

Name	Type	Class	Value	Remark
[S]	CDATA	implied		
[T]	CDATA	implied		

Description This element allows you to interchange private (encoded) data.

## 16.8 PRM

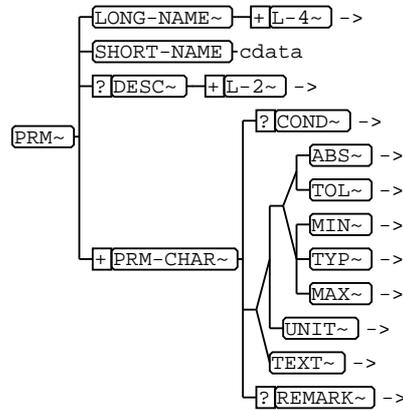


Figure 161: DTD-diagram for PRM

Child elements `<long-name>` `<short-name>` `<desc>` `<prm-char>`

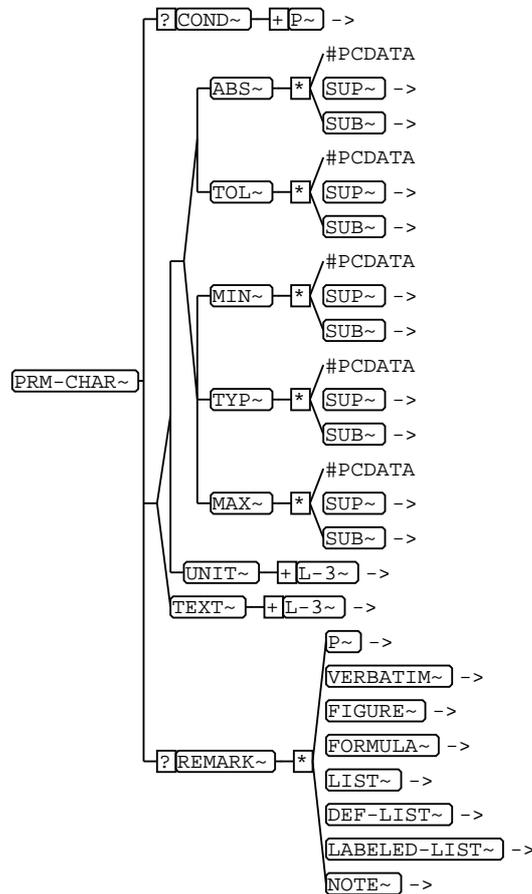
parent elements `<prms>`

Table 160: Attributes for PRM

Name	Type	Class	Value	Remark
[F-ID-CLASS]	name	fixed	PRM	
[ID]	id	required		
[S]	CDATA	implied		
[T]	CDATA	implied		

Description Definition of a numeric or alphanumeric (without `<operator>`, `<unit>` and `<tolerance>`) parameter.

## 16.9 PRM-CHAR



images/PRM-CHAR.bmp

Figure 162: DTD-diagram for PRM-CHAR

Child elements `<cond>` `<abs>` `<tol>` `<min>` `<typ>` `<max>` `<unit>` `<text>` `<remark>`

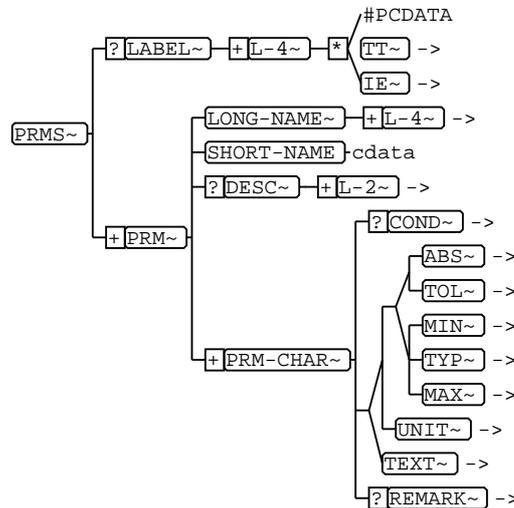
parent elements `<prm>`

Table 161: Attributes for PRM-CHAR

Name	Type	Class	Value	Remark
[S]	CDATA	implied		
[T]	CDATA	implied		

Description A parameter consists of one or more characteristics. Each characteristic groups an `<operator>`, `<value>`, `<unit>`, `<tolerance>` and `<cond>`. Since it is possible to define a range with two parameter characteristics.

## 16.10 PRMS



images/PRMS.bmp

Figure 163: DTD-diagram for PRMS

Child elements `<label>` `<prm>`

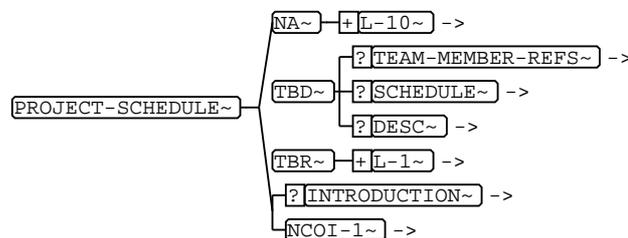
parent elements `<chapter>` `<ncoi-1>` `<topic-1>`

Table 162: Attributes for PRMS

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Groups one or more parameters to a parameter table.

## 16.11 PROJECT-SCHEDULE



images/PROJECT-SCHEDULE.bmp

Figure 164: DTD-diagram for PROJECT-SCHEDULE

Child elements `<na>` `<tbd>` `<tbr>` `<introduction>` `<ncoi-1>`

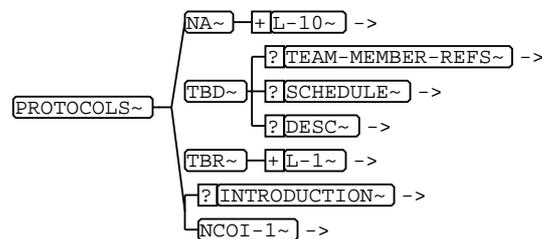
parent elements `<general-project-data>`

**Table 163: Attributes for PROJECT-SCHEDULE**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description This element contains a project schedule.

## 16.12 PROTOCOLS



images/PROTOCOLS.bmp

**Figure 165: DTD-diagram for PROTOCOLS**

Child elements `<na>` `<tbd>` `<tbr>` `<introduction>` `<ncoi-1>`

parent elements `<general-project-data>`

**Table 164: Attributes for PROTOCOLS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description This element contains all protocols (from the actual company) of this project.

## 16.13 PUBLISHER



images/PUBLISHER.bmp

**Figure 166: DTD-diagram for PUBLISHER**

Child elements none

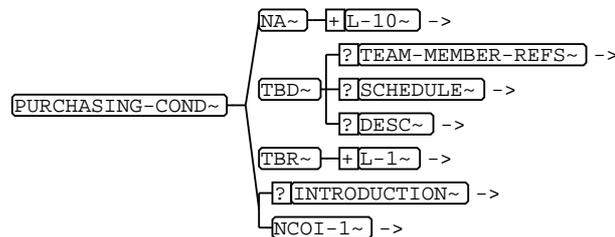
parent elements `<xdoc>`

**Table 165: Attributes for PUBLISHER**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Definition of the publisher of the external document.

## 16.14 PURCHASING-COND



images/PURCHASING-COND.bmp

**Figure 167: DTD-diagram for PURCHASING-COND**

Child elements `<na>` `<tbd>` `<tbr>` `<introduction>` `<ncoi-1>`

parent elements `<general-project-data>`

**Table 166: Attributes for PURCHASING-COND**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description This element groups existing purchasing conditions.

## 17 REASON ... ROW

### 17.1 REASON

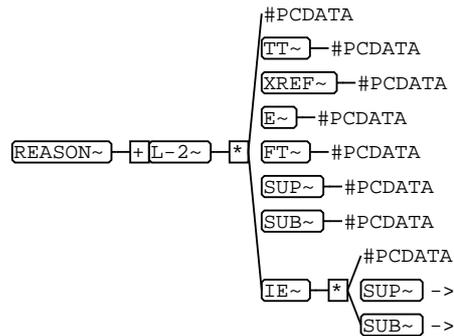


Figure 168: DTD-diagram for REASON

Child elements <l-2>

parent elements <modification>

Table 167: Attributes for REASON

Name	Type	Class	Value	Remark
[S]	CDATA	implied		
[T]	CDATA	implied		

Description Reason of the change.

### 17.2 REASON-ORDER

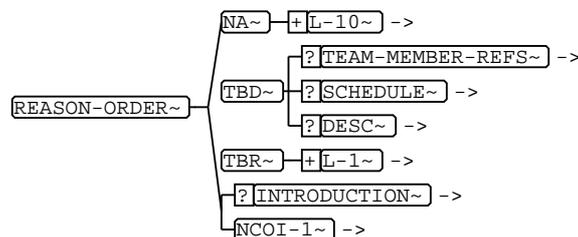


Figure 169: DTD-diagram for REASON-ORDER

Child elements <na> <tbd> <tbr> <introduction> <ncoi-1>

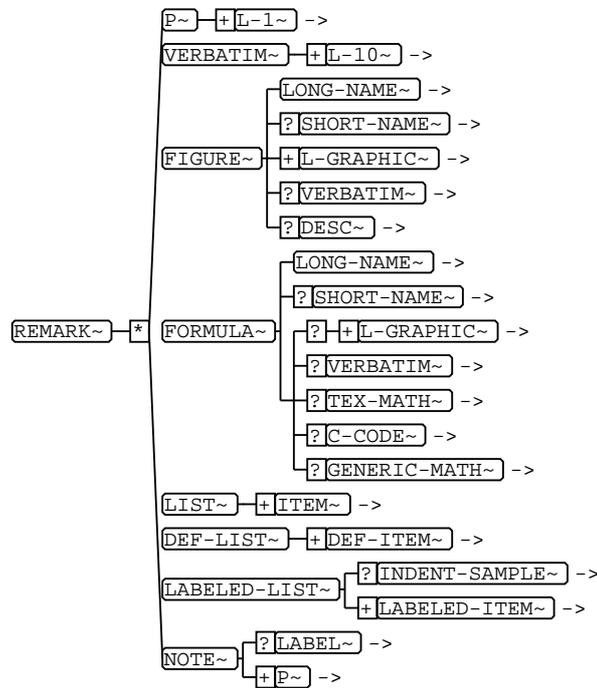
parent elements <general-project-data>

**Table 168: Attributes for REASON-ORDER**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Reason of the order.

## 17.3 REMARK



**Figure 170: DTD-diagram for REMARK**

Child elements `<p>` `<verbatim>` `<figure>` `<formula>` `<list>` `<def-list>` `<labeled-list>` `<note>`

parent elements `<prm-char>`

**Table 169: Attributes for REMARK**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Defines a remark.

## 17.4 REVISION-LABEL

`REVISION-LABEL~+|L-10~#PCDATA`

Figure 171: DTD-diagram for REVISION-LABEL

Child elements `<l-10>`

parent elements `<company-revision-info>` `<lite-revision>`

Table 170: Attributes for REVISION-LABEL

Name	Type	Class	Value	Remark
[S]	CDATA	implied		
[T]	CDATA	implied		

Description Label of a revision.

## 17.5 RISK-PRIORITY-FACTOR

`RISK-PRIORITY-FACTOR~#PCDATA`

Figure 172: DTD-diagram for RISK-PRIORITY-FACTOR

Child elements none

parent elements `<fm-counter-tasks>` `<fm-detection-tasks>` `<fm-significance>`

Table 171: Attributes for RISK-PRIORITY-FACTOR

Name	Type	Class	Value	Remark
[S]	CDATA	implied		
[T]	CDATA	implied		

## 17.6 ROLE

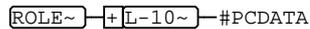


Figure 173: DTD-diagram for ROLE

Child elements <l-10>

parent elements <roles>

Table 172: Attributes for ROLE

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Definition of a team member role (e.g. project leader).

## 17.7 ROLES



Figure 174: DTD-diagram for ROLES

Child elements <role>

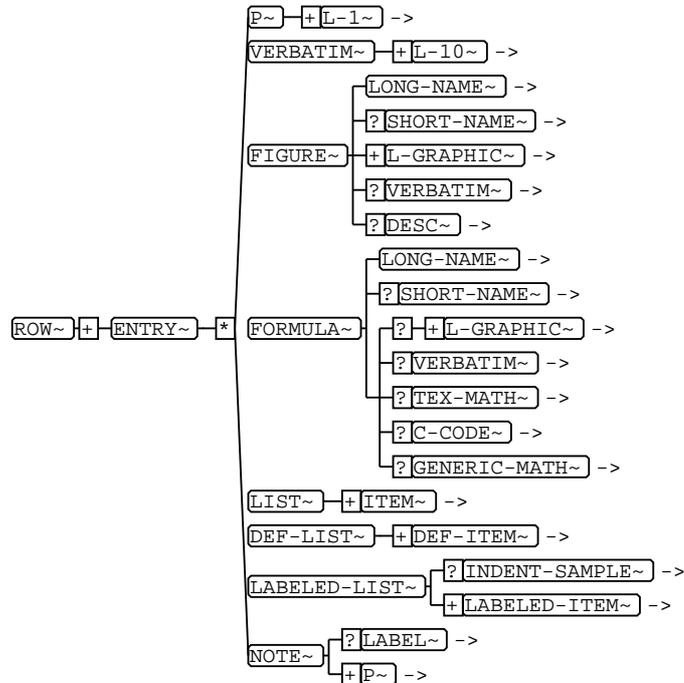
parent elements <team-member>

Table 173: Attributes for ROLES

Name	Type	Class	Value	Remark
[F-CHILD-TYPE]	cdata	fixed	role:selection	
[S]	cdata	implied		
[T]	cdata	implied		

Description Each team member has one or more roles in the project.

## 17.8 ROW



images/ROW.bmp

**Figure 175: DTD-diagram for ROW**

Child elements **<entry>**

parent elements **<tbody> <tfoot> <thead>**

**Table 174: Attributes for ROW**

Name	Type	Class	Value	Remark
[ROWSEP]	number	implied		
[S]	cdata	implied		
[T]	cdata	implied		

Description Identifies the row information in a <tbody> of a table. Default values come from the <table>, <tbody>, <thead> or <tfoot> attributes.

## 18 SAMPLE ... SYSTEM-OVERVIEW

### 18.1 SAMPLE

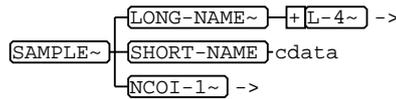


Figure 176: DTD-diagram for SAMPLE

Child elements <long-name> <short-name> <ncoi-1>

parent elements <samples>

Table 175: Attributes for SAMPLE

Name	Type	Class	Value	Remark
[F-CHILD-TYPE]	cdata	fixed	long-name:selection	
[F-ID-CLASS]	name	fixed	SAMPLE	
[ID]	id	required		
[S]	cdata	implied		
[T]	cdata	implied		

Description Definition of a sample.

### 18.2 SAMPLE-REF



Figure 177: DTD-diagram for SAMPLE-REF

Child elements none

parent elements <schedule>

Table 176: Attributes for SAMPLE-REF

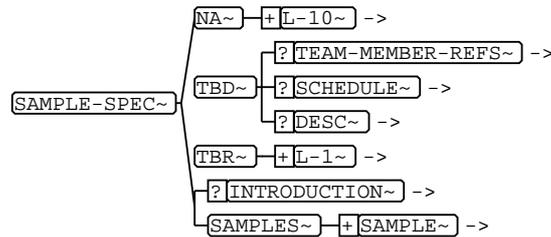
Name	Type	Class	Value	Remark
[HYNAMES]	names	fixed	LINKEND SAMPLE	
[HYTIME]	name	fixed	CLINK	
[S]	cdata	implied		
[SAMPLE]	idref	required		

**Table 176 (Cont.): Attributes for SAMPLE-REF**

Name	Type	Class	Value	Remark
[T]	cdata	implied		

Description Reference to a sample.

## 18.3 SAMPLE-SPEC



images/SAMPLE-SPEC.bmp

**Figure 178: DTD-diagram for SAMPLE-SPEC**

Child elements **<na> <tbd> <tbr> <introduction> <samples>**

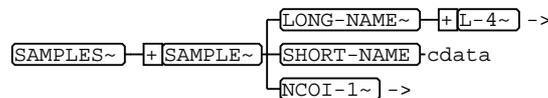
parent elements **<general-project-data>**

**Table 177: Attributes for SAMPLE-SPEC**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Null

## 18.4 SAMPLES



images/SAMPLES.bmp

**Figure 179: DTD-diagram for SAMPLES**

Child elements **<sample>**

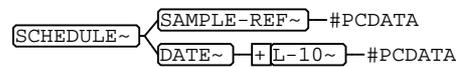
parent elements **<sample-spec>**

**Table 178: Attributes for SAMPLES**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Definition of a samples.

## 18.5 SCHEDULE



**Figure 180: DTD-diagram for SCHEDULE**

Child elements **<sample-ref>** **<date>**

parent elements **<tbl>**

**Table 179: Attributes for SCHEDULE**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Null

## 18.6 SHORT-NAME



**Figure 181: DTD-diagram for SHORT-NAME**

Child elements none

parent elements **<chapter>** **<company>** **<def-item>** **<figure>** **<fm-action>** **<fm-action-type>** **<fm-fault>** **<fm-fault-type>** **<fm-form-sheet>** **<fm-function>** **<fm-function-type>** **<fm-structure>** **<fm-structure-element>** **<fm-task-set>** **<fm-task-sets>** **<fm-team>** **<fm-tool>** **<formula>** **<msrfmea>** **<nameloc>** **<prm>** **<sample>** **<std>** **<table>** **<team-member>** **<topic-1>** **<topic-2>** **<variant-char>** **<variant-def>** **<xdoc>** **<xfile>**

**Table 180: Attributes for SHORT-NAME**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Identifier or label of a parameter.

## 18.7 SPANSPEC

`<SPANSPEC>` empty

**Figure 182: DTD-diagram for SPANSPEC**

Child elements none

parent elements `<tgroup>`

**Table 181: Attributes for SPANSPEC**

Name	Type	Class	Value	Remark
[ALIGN]	nmtkgrp	default	CENTER LEFT RIGHT CEN- TER JUSTIFY CHAR	
[CHAR]	cdata	implied		
[CHAROFF]	nutoken	implied		
[COLSEP]	number	implied		
[NAMEEND]	nmtoken	required		
[NAMEST]	nmtoken	required		
[ROWSEP]	number	implied		
[S]	cdata	implied		
[SPANNAME]	nmtoken	required		
[T]	cdata	implied		

Description Identifies a horizontal span of columns and associated attributes that can subsequently be referenced by its spanname to provide attributes repeatedly used in the entries or entry tables in several rows of the table group controlled by the group `<colsdef>`, or within the specific `<thead>`, `<tfoot>`, or `<tbody>` context in which the `<spanspec>` occurs. `<Namest>` and `<nameend>` identify the first and last columns in increasing order that identify the span. The reason `<colname>` is used rather than `<colnum>` in identifying `<spanspec>` is that the names are independent of revisions that may change the number of inserted/deleted columns, as long as `namest` remains to the left of (has a

smaller column than) <nameend>. <spanspec>s set on <thead> or <tfoot> override those on the containing <tgroup> and apply to just the <thead> or <tfoot>. <spanspec>s from the containing <tgroup> apply to <tbody>.

## 18.8 STATE

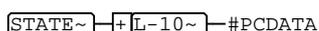


Figure 183: DTD-diagram for STATE

Child elements <l-10>

parent elements <company-revision-info> <lite-revision>

Table 182: Attributes for STATE

Name	Type	Class	Value	Remark
[S]	CDATA	implied		
[T]	CDATA	implied		

Description Processing state of a document, i.e draft, released.

## 18.9 STATE-1



Figure 184: DTD-diagram for STATE-1

Child elements none

parent elements <std> <xdoc>

Table 183: Attributes for STATE-1

Name	Type	Class	Value	Remark
[S]	CDATA	implied		
[T]	CDATA	implied		

Description Definition of a state (multilingual).

## 18.10 STD

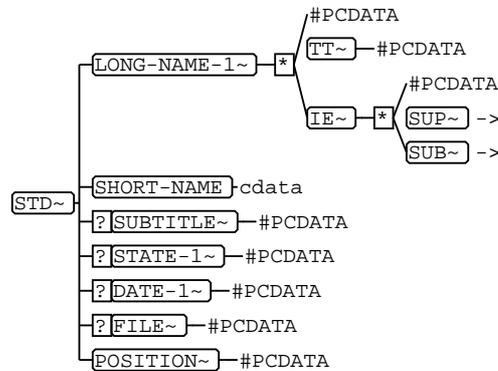


Figure 185: DTD-diagram for STD

Child elements **<long-name-1>** **<short-name>** **<subtitle>** **<state-1>** **<date-1>** **<file>**  
**<position>**

parent elements **<l-1>**

Table 184: Attributes for STD

Name	Type	Class	Value	Remark
[F-CHILD-TYPE]	cdata	fixed	date-1:date	
[F-ID-CLASS]	name	fixed	STD	
[ID]	id	required		
[S]	cdata	implied		
[T]	cdata	implied		

Description Specification of a standard. A <xref> can refer to a standard within a paragraph.

## 18.11 SUB

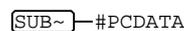


Figure 186: DTD-diagram for SUB

Child elements none

parent elements **<abs>** **<ie>** **<l-1>** **<l-2>** **<l-3>** **<max>** **<min>** **<tol>** **<typ>**

**Table 185: Attributes for SUB**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Text which appears or is displayed below the normal base line of text.

## 18.12 SUBTITLE



**Figure 187: DTD-diagram for SUBTITLE**

Child elements none

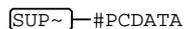
parent elements <std>

**Table 186: Attributes for SUBTITLE**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description This element defines a subtitle of the standard.

## 18.13 SUP



**Figure 188: DTD-diagram for SUP**

Child elements none

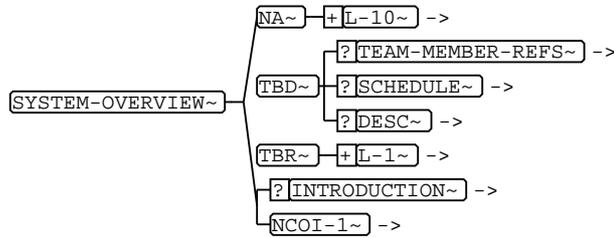
parent elements <abs> <ie> <l-1> <l-2> <l-3> <max> <min> <tol> <typ>

**Table 187: Attributes for SUP**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Text which appears or is displayed above the normal base line of text.

## 18.14 SYSTEM-OVERVIEW



images/SYSTEM-OVERVIEW.bmp

**Figure 189: DTD-diagram for SYSTEM-OVERVIEW**

Child elements `<na>` `<tbd>` `<tbr>` `<introduction>` `<ncoi-1>`

parent elements `<general-project-data>`

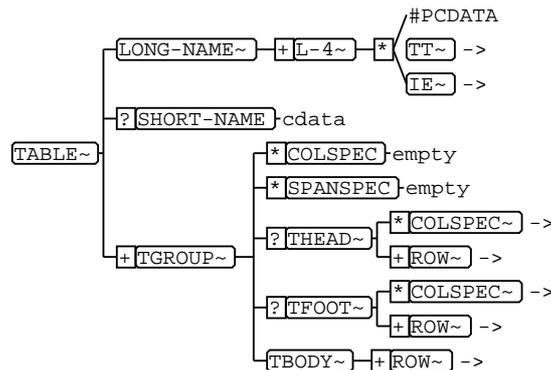
**Table 188: Attributes for SYSTEM-OVERVIEW**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Null

## 19 TABLE ... TYP

### 19.1 TABLE



images/TABLE.bmp

Figure 190: DTD-diagram for TABLE

Child elements `<long-name>` `<short-name>` `<tgroup>`

parent elements `<chapter>` `<fm-form-sheet-presentation>` `<introduction>` `<ncoi-1>`  
`<topic-1>` `<topic-2>`

Table 189: Attributes for TABLE

Name	Type	Class	Value	Remark
[COLSEP]	number	implied		
[F-ID-CLASS]	name	fixed	TABLE	
[FLOAT]	nmtkgrp	implied	FLOAT NO-FLOAT	
[FRAME]	nmtkgrp	implied	TOP BOTTOM TOPBOT ALL SIDES NONE	
[HELP-ENTRY]	cdata	implied		
[ID]	id	required		
[ORIENT]	nmtkgrp	implied	PORT LAND	
[PGWIDE]	number	implied		
[ROWSEP]	number	implied		
[S]	cdata	implied		
[SHORTENTRY]	number	implied		
[T]	cdata	implied		
[TABSTYLE]	nmtoken	implied		
[TOCENTRY]	number	default	1	

Description Identifies a table.

## 19.2 TBD

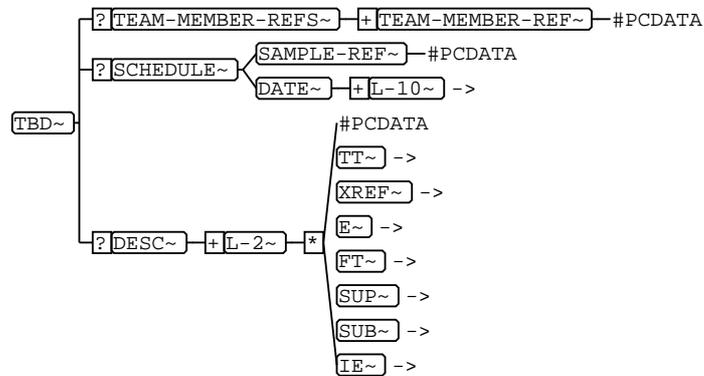


Figure 191: DTD-diagram for TBD

Child elements **<team-member-refs>** **<schedule>** **<desc>**

parent elements **<acceptance-cond>** **<add-spec>** **<demarcation-other-projects>**  
**<dir-hand-over-doc-data>** **<general-project-data>** **<integration-capability>** **<objectives>** **<parallel-designs>** **<project-schedule>**  
**<protocols>** **<purchasing-cond>** **<reason-order>** **<sample-spec>**  
**<system-overview>** **<variant-spec>**

Table 190: Attributes for TBD

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Specifies that this information (see parent element) will be defined. The context of this element describes the reason why the information isn't defined.

## 19.3 TBODY

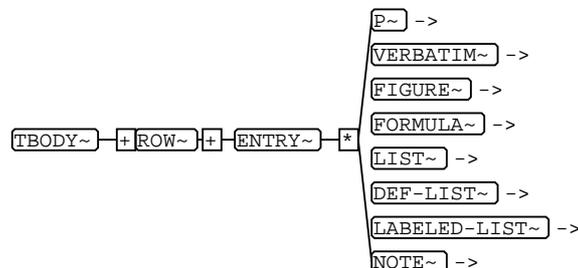


Figure 192: DTD-diagram for TBODY

Child elements **<row>**

parent elements <group>

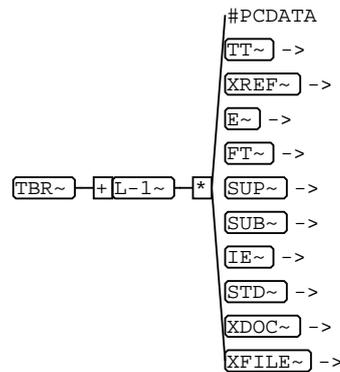
**Table 191: Attributes for TBODY**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		
[VALIGN]	nmtkgrp	default	TOP TOP MIDDLE BOT- TOM	

Description Defines the table body.

## 19.4

## TBR



**Figure 193: DTD-diagram for TBR**

Child elements <l-1>

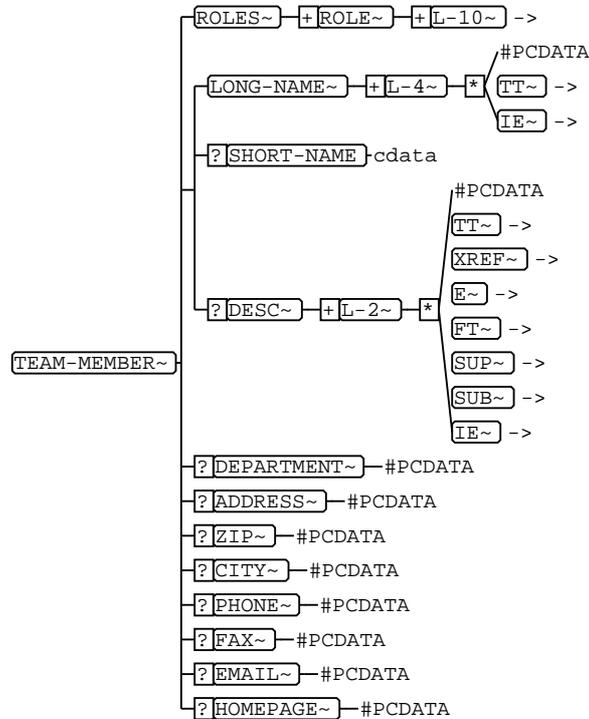
parent elements <acceptance-cond> <add-spec> <demarcation-other-projects>  
<dir-hand-over-doc-data> <general-project-data> <integration-capability>  
<objectives> <parallel-designs> <project-schedule> <protocols>  
<purchasing-cond> <reason-order> <sample-spec> <system-overview>  
<variant-spec>

**Table 192: Attributes for TBR**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Null

## 19.5 TEAM-MEMBER



images/TEAM-MEMBER.bmp

Figure 194: DTD-diagram for TEAM-MEMBER

Child elements `<roles>` `<long-name>` `<short-name>` `<desc>` `<department>` `<address>` `<zip>` `<city>` `<phone>` `<fax>` `<email>` `<homepage>`

parent elements `<team-members>`

Table 193: Attributes for TEAM-MEMBER

Name	Type	Class	Value	Remark
[F-ID-CLASS]	name	fixed	TEAM-MEMBER	
[ID]	id	required		
[S]	CDATA	implied		
[T]	CDATA	implied		

Description Definition of a team member.

## 19.6 TEAM-MEMBER-REF



Figure 195: DTD-diagram for TEAM-MEMBER-REF

Child elements none

parent elements <doc-revision> <fm-action> <fm-structure-owner> <lite-revision>  
<team-member-refs>

Table 194: Attributes for TEAM-MEMBER-REF

Name	Type	Class	Value	Remark
[HYNAMES]	names	fixed	LINKEND TEAM-MEMBER	
[HYTIME]	name	fixed	CLINK	
[S]	cdata	implied		
[T]	cdata	implied		
[TEAM-MEMBER]	idref	required		

Description Reference to an team member.

## 19.7 TEAM-MEMBER-REFS



Figure 196: DTD-diagram for TEAM-MEMBER-REFS

Child elements <team-member-ref>

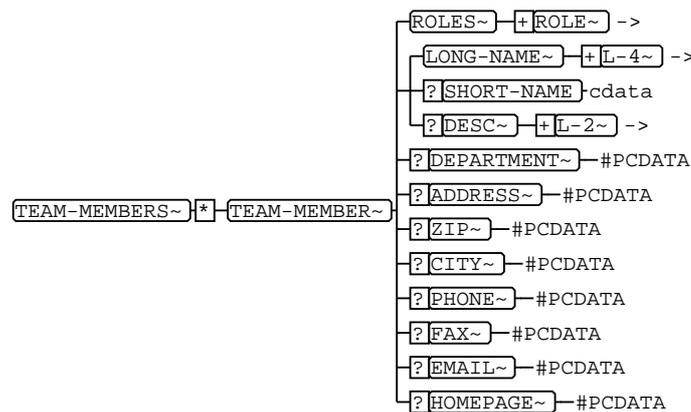
parent elements <fm-team> <tbid>

Table 195: Attributes for TEAM-MEMBER-REFS

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description List of references to team member.

## 19.8 TEAM-MEMBERS



images/TEAM-MEMBERS.bmp

Figure 197: DTD-diagram for TEAM-MEMBERS

Child elements **<team-member>**

parent elements **<company>**

Table 196: Attributes for TEAM-MEMBERS

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description This element groups some team-member of a company for the actual project.

## 19.9 TEX-MATH



images/TEX-MATH.bmp

Figure 198: DTD-diagram for TEX-MATH

Child elements **<l-10>**

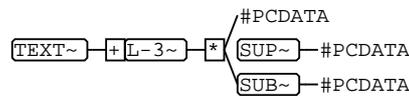
parent elements **<formula>**

**Table 197: Attributes for TEX-MATH**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Describes a TeX (LaTeX) formular

## 19.10 TEXT



images/TEXT.bmp

**Figure 199: DTD-diagram for TEXT**

Child elements **<l-3>**

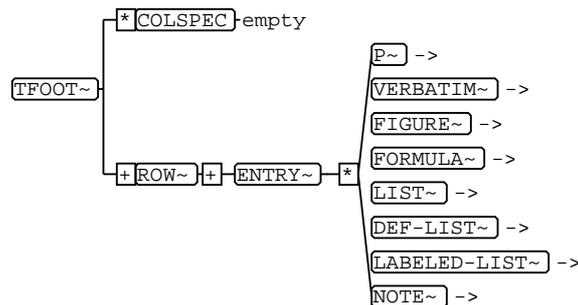
parent elements **<prm-char>**

**Table 198: Attributes for TEXT**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Definition of text.

## 19.11 TFOOT



images/TFOOT.bmp

**Figure 200: DTD-diagram for TFOOT**

Child elements **<colspec>** **<row>**

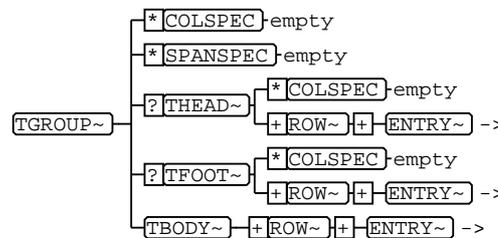
parent elements **<tgroup>**

**Table 199: Attributes for TFOOT**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		
[VALIGN]	nmtkgrp	default	TOP TOP MIDDLE BOT- TOM	

Description Identifies the footer information in a table displayed after the <tbody> and also at the bottom of any <tbody> rows before a physical break.

## 19.12 TGROUP



images/TGROUP.bmp

**Figure 201: DTD-diagram for TGROUP**

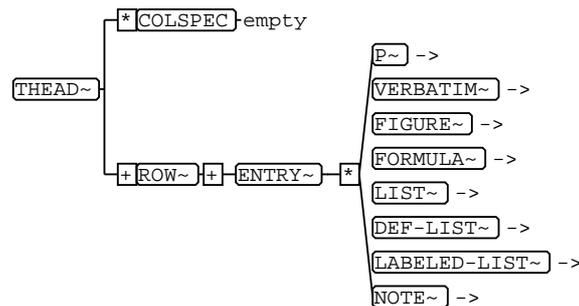
Child elements <colspec> <spanspec> <thead> <tfoot> <tbody>  
parent elements <table>

**Table 200: Attributes for TGROUP**

Name	Type	Class	Value	Remark
[ALIGN]	nmtkgrp	default	LEFT LEFT RIGHT CEN- TER JUSTIFY CHAR	
[CHAR]	cdata	default		
[CHAROFF]	nutoken	default	50	
[COLS]	number	required		
[COLSEP]	number	implied		
[ROWSEP]	number	implied		
[S]	cdata	implied		
[T]	cdata	implied		
[TGROUPSTYLE]	nmtoken	implied		

Description Each `<tgroup>` effectively identifies a new partition of a table. If a new `<colspec>` is provided, it replaces a previous one. If both `<colspec>` and `<spanspec>` are new, `<spanspec>` should refer to columns in the most recent `<colspec>`.

## 19.13 THEAD



images/thead.bmp

Figure 202: DTD-diagram for THEAD

Child elements `<colspec>` `<row>`

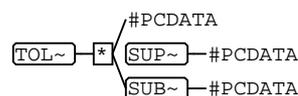
parent elements `<tgroup>`

Table 201: Attributes for THEAD

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[VALIGN]	nmtkgrp	default	BOTTOM TOP MIDDLE BOT- TOM	

Description Identifies the heading information in a table, displayed at the top of the table and again at the top of any continuation after a physical break between `<rows>` in `<tbody>`.

## 19.14 TOL



images/tol.bmp

Figure 203: DTD-diagram for TOL

Child elements `<sup>` `<sub>`

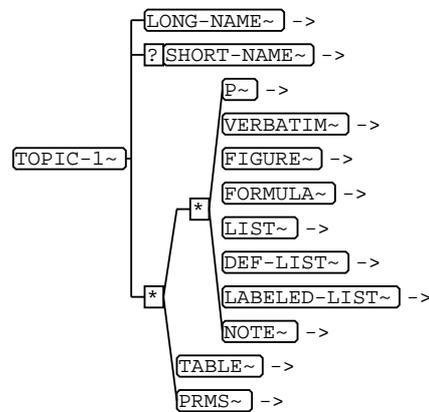
parent elements `<prm-char>`

**Table 202: Attributes for TOL**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Definition of a tolerance of the defined <value>.

## 19.15 TOPIC-1



images/TOPIC-1.bmp

**Figure 204: DTD-diagram for TOPIC-1**

Child elements **<long-name>** **<short-name>** **<p>** **<verbatim>** **<figure>** **<formula>**  
**<list>** **<def-list>** **<labeled-list>** **<note>** **<table>** **<prms>**

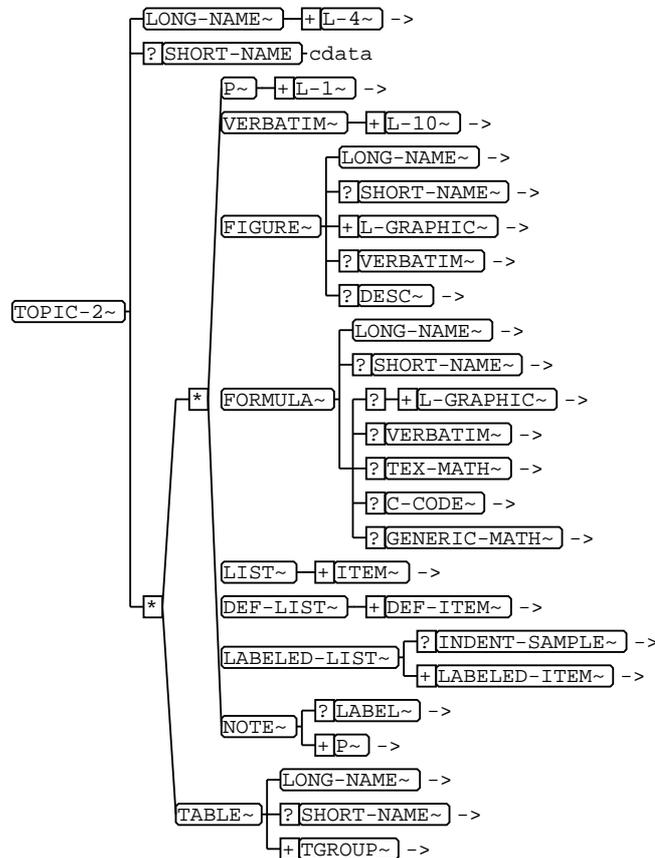
parent elements **<chapter>** **<ncoi-1>**

**Table 203: Attributes for TOPIC-1**

Name	Type	Class	Value	Remark
[F-ID-CLASS]	name	fixed	TOPIC	
[HELP-ENTRY]	cdata	implied		
[ID]	id	required		
[S]	cdata	implied		
[T]	cdata	implied		

Description This element groups tables, parameter groups, figures, lists and paragraphs. It has the same function as a sub-chapter or sub-section.

## 19.16 TOPIC-2



images/TOPIC-2.bmp

Figure 205: DTD-diagram for TOPIC-2

Child elements **<long-name>** **<short-name>** **<p>** **<verbatim>** **<figure>** **<formula>**  
**<list>** **<def-list>** **<labeled-list>** **<note>** **<table>**

parent elements **<fm-form-sheet-presentation>** **<introduction>**

Table 204: Attributes for TOPIC-2

Name	Type	Class	Value	Remark
[F-ID-CLASS]	name	fixed	TOPIC	
[HELP-ENTRY]	CDATA	implied		
[ID]	id	required		
[S]	CDATA	implied		
[T]	CDATA	implied		

Description This element groups tables, figures, lists and paragraphs. It has the same function as a sub-chapter or sub-section.

## 19.17 TT

 #PCDATA

**Figure 206: DTD-diagram for TT**

Child elements none

parent elements <l-1> <l-2> <l-4> <long-name-1>

**Table 205: Attributes for TT**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		
[TYPE]	nmtgrp	required	SGMLTAG SGML- ATTRIBUTE TOOL PRODUCT VARIABLE STATE PRM MATERIAL CONTROL- ELEMENT CODE ORGANISATION OTHER	
[USER-DEFINED-TYPE]	cdata	implied		

Description technical term

## 19.18 TYP

 \*  #PCDATA  
 #PCDATA

**Figure 207: DTD-diagram for TYP**

Child elements <sup> <sub>

parent elements <prm-char>

**Table 206: Attributes for TYP**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Defines a typical value.

## 20 UNIT ... USER-COVER-SHEETS

### 20.1 UNIT

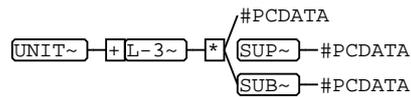


Figure 208: DTD-diagram for UNIT

Child elements <l-3>

parent elements <prm-char>

Table 207: Attributes for UNIT

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Definition of a unit. Please use the standardized SI symbols.

### 20.2 USED-LANGUAGES



Figure 209: DTD-diagram for USED-LANGUAGES

Child elements <l-10>

parent elements <admin-data>

Table 208: Attributes for USED-LANGUAGES

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Null

## 20.3 USER-COVER-SHEET

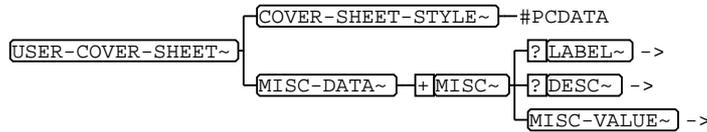


Figure 210: DTD-diagram for USER-COVER-SHEET

Child elements **<cover-sheet-style>** **<misc-data>**

parent elements **<user-cover-sheets>**

Table 209: Attributes for USER-COVER-SHEET

Name	Type	Class	Value	Remark
[S]	CDATA	IMPLIED		
[T]	CDATA	IMPLIED		

## 20.4 USER-COVER-SHEETS



Figure 211: DTD-diagram for USER-COVER-SHEETS

Child elements **<user-cover-sheet>**

parent elements **<fm-form-sheet>**

Table 210: Attributes for USER-COVER-SHEETS

Name	Type	Class	Value	Remark
[S]	CDATA	IMPLIED		
[T]	CDATA	IMPLIED		

## 21 VALUE ... VISIBLE

### 21.1 VALUE

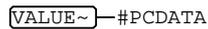


Figure 212: DTD-diagram for VALUE

Child elements none

parent elements <variant-char-value>

Table 211: Attributes for VALUE

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Specifies the value of a variant characteristic.

### 21.2 VARIANT-CHAR

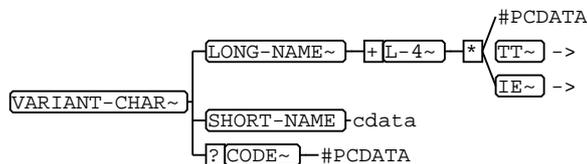


Figure 213: DTD-diagram for VARIANT-CHAR

Child elements <long-name> <short-name> <code>

parent elements <variant-chars>

Table 212: Attributes for VARIANT-CHAR

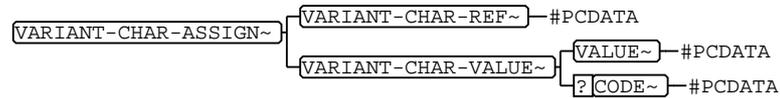
Name	Type	Class	Value	Remark
[F-ID-CLASS]	name	fixed	VARIANT-CHAR	
[ID]	id	required		
[S]	cdata	implied		
[T]	cdata	implied		

**Table 212 (Cont.): Attributes for VARIANT-CHAR**

Name	Type	Class	Value	Remark
[TYPE]	nmtkgrp	required	NEW-PART-NUMBER NO-NEW-PART-NUMBER	

Description Definition of a variant characteristic.

## 21.3 VARIANT-CHAR-ASSIGN



**Figure 214: DTD-diagram for VARIANT-CHAR-ASSIGN**

Child elements `<variant-char-ref>` `<variant-char-value>`

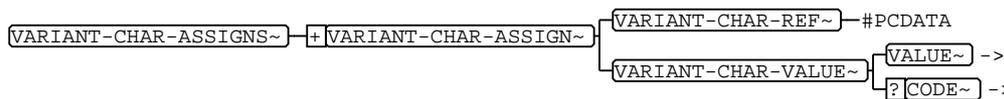
parent elements `<variant-char-assigns>`

**Table 213: Attributes for VARIANT-CHAR-ASSIGN**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Assigns a variant characteristic.

## 21.4 VARIANT-CHAR-ASSIGNS



**Figure 215: DTD-diagram for VARIANT-CHAR-ASSIGNS**

Child elements `<variant-char-assign>`

parent elements `<variant-def>`

**Table 214: Attributes for VARIANT-CHAR-ASSIGNS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Assigns variant characteristics.

## 21.5 VARIANT-CHAR-REF



**Figure 216: DTD-diagram for VARIANT-CHAR-REF**

Child elements none

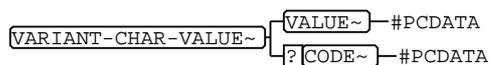
parent elements <variant-char-assign>

**Table 215: Attributes for VARIANT-CHAR-REF**

Name	Type	Class	Value	Remark
[HYNAMES]	names	fixed	LINKEND VARIANT-CHAR	
[HYTIME]	name	fixed	CLINK	
[S]	cdata	implied		
[T]	cdata	implied		
[VARIANT-CHAR]	idref	required		

Description Reference to a variant chararteristic.

## 21.6 VARIANT-CHAR-VALUE



**Figure 217: DTD-diagram for VARIANT-CHAR-VALUE**

Child elements <value> <code>

parent elements **<variant-char-assign>**

**Table 216: Attributes for VARIANT-CHAR-VALUE**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description This element contains the value of a variant characteristic.

## 21.7 VARIANT-CHARS



**Figure 218: DTD-diagram for VARIANT-CHARS**

Child elements **<variant-char>**

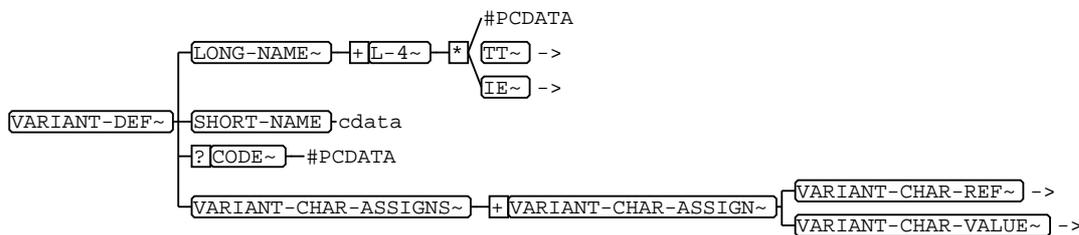
parent elements **<variant-spec>**

**Table 217: Attributes for VARIANT-CHARS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Definition of variant characteristics.

## 21.8 VARIANT-DEF



**Figure 219: DTD-diagram for VARIANT-DEF**

Child elements **<long-name>** **<short-name>** **<code>** **<variant-char-assigns>**

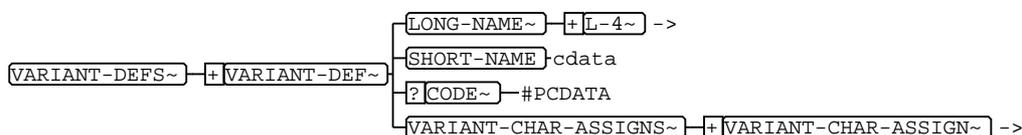
parent elements **<variant-defs>**

**Table 218: Attributes for VARIANT-DEF**

Name	Type	Class	Value	Remark
[F-ID-CLASS]	name	fixed	VARIANT-DEF	
[ID]	id	required		
[S]	cdata	implied		
[T]	cdata	implied		

Description General definition of a variant.

## 21.9 VARIANT-DEFS



images/VARIANTDEFS.bmp

**Figure 220: DTD-diagram for VARIANT-DEFS**

Child elements **<variant-def>**

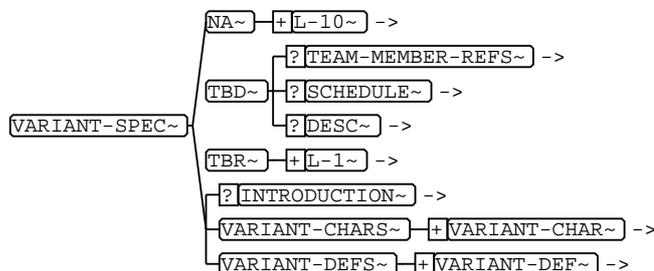
parent elements **<variant-spec>**

**Table 219: Attributes for VARIANT-DEFS**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description General definitions of a variant.

## 21.10 VARIANT-SPEC



images/VARIANTSPEC.bmp

**Figure 221: DTD-diagram for VARIANT-SPEC**

Child elements **<na>** **<tbd>** **<tbr>** **<introduction>** **<variant-chars>** **<variant-defs>**

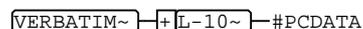
parent elements **<general-project-data>**

**Table 220: Attributes for VARIANT-SPEC**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description Specification of a variant.

## 21.11 VERBATIM



**Figure 222: DTD-diagram for VERBATIM**

Child elements **<l-10>**

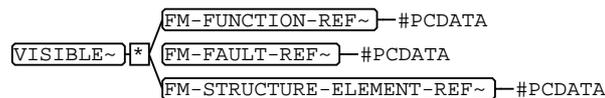
parent elements **<chapter>** **<entry>** **<figure>** **<fm-form-sheet-presentation>** **<formula>** **<introduction>** **<item>** **<labeled-item>** **<ncoi-1>** **<remark>** **<topic-1>** **<topic-2>**

**Table 221: Attributes for VERBATIM**

Name	Type	Class	Value	Remark
[ALLOW-BREAK]	number	default	1	
[FLOAT]	nmtkgrp	implied	FLOAT NO-FLOAT	
[HELP-ENTRY]	cdata	implied		
[S]	cdata	implied		
[T]	cdata	implied		

Description Used to indicate if the text is to be picked up and laid down as it is. Typically, it implies the usage of a monospace font and the designated point size. All record ends are retained. The use of tabs in verbatim text may cause unexpected results and should therefore be avoided.

## 21.12 VISIBLE



**Figure 223: DTD-diagram for VISIBLE**

Child elements **<fm-function-ref>** **<fm-fault-ref>** **<fm-structure-element-ref>**



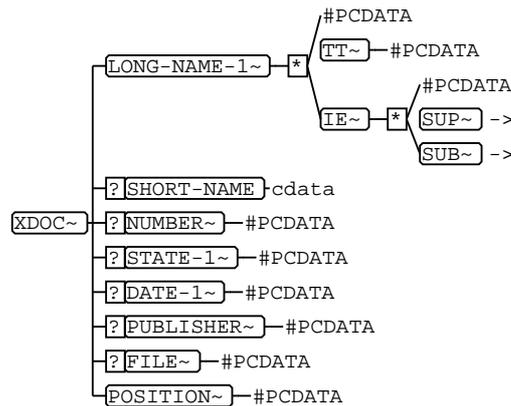
parent elements **<fm-interface>**

**Table 222: Attributes for VISIBLE**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

## 22 XDOC ... XREF

### 22.1 XDOC



images/XDOC.bmp

Figure 224: DTD-diagram for XDOC

Child elements **<long-name-1>** **<short-name>** **<number>** **<state-1>** **<date-1>** **<publisher>** **<file>** **<position>**

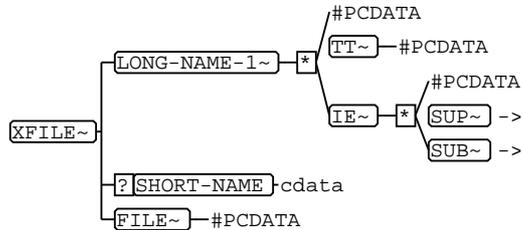
parent elements **<l-1>**

Table 223: Attributes for XDOC

Name	Type	Class	Value	Remark
[F-CHILD-TYPE]	cdata	fixed	date-1:date	
[F-ID-CLASS]	name	fixed	XDOC	
[ID]	id	required		
[S]	cdata	implied		
[T]	cdata	implied		

Description Specify an external document which is not accessed by the SGML-System. The content of this external document is 'not included' in the document instance or presented in a report.

## 22.2 XFILE



images/XFILE.bmp

Figure 225: DTD-diagram for XFILE

Child elements **<long-name-1>** **<short-name>** **<file>**

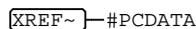
parent elements **<I-1>**

Table 224: Attributes for XFILE

Name	Type	Class	Value	Remark
[F-ID-CLASS]	name	fixed	XFILE	
[ID]	id	required		
[S]	cdata	implied		
[T]	cdata	implied		

Description Specify an external file which is not accessed by the SGML-System. The content of this external file is 'not included' in the document instance or presented in a report.

## 22.3 XREF



images/XREF.bmp

Figure 226: DTD-diagram for XREF

Child elements none

parent elements **<I-1>** **<I-2>**

Table 225: Attributes for XREF

Name	Type	Class	Value	Remark
[EXT-ID-CLASS]	cdata	implied		
[HYNAMES]	names	fixed	LINKEND ID-REF	
[HYTIME]	name	fixed	CLINK	

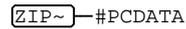
**Table 225 (Cont.): Attributes for XREF**

Name	Type	Class	Value	Remark
[ID-CLASS]	nmtkgrp	required	CHAPTER COMPANY DEF-ITEM FIGURE FM-ACTION FM-ACTION-TYPE FM-FAULT FM-FAULT-TYPE FM-FORM-SHEET FM-FUNCTION FM-FUNCTION-TYPE FM-STRUCTURE FM-STRUCTURE-ELEMENT FM-TASK-SET FM-TASK-SETS FM-TEAM FM-TOOL FORMULA PRM SAMPLE STD TABLE TEAM-MEMBER TOPIC VARIANT-CHAR VARIANT-DEF X-DOC XFILE EXTERNAL	
[ID-REF]	idref	required		
[S]	cdata	implied		
[T]	cdata	implied		

Description Reference inside a paragraph to objects (elements with identifier) in the document. The type attribute classifies this reference into following classes: - figures - tables - external documents - parameters - standards - other For the output, the processing system will use this classes for difference presentation.

## 23 ZIP ... ZIP

### 23.1 ZIP

#PCDATA

**Figure 227: DTD-diagram for ZIP**

Child elements none

parent elements <team-member>

**Table 226: Attributes for ZIP**

Name	Type	Class	Value	Remark
[S]	cdata	implied		
[T]	cdata	implied		

Description This element contains the ZIP of the used address.

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## Documentadministration

### Overview of Changes

Total	Documentpart	Nr.	Change	Reason	Related to
15.6.1999		5	initial release		Content
30.7.1999		4	Element description included		Content
8.9.1999		3	New DTD Version		Content
1.10.1999		2	New DTD Version		Content
2002-02-07		1	Create index, technical terms and reference. Convert to MSRREP V210 XML.		Content

### Versions Overview

Document Part	Date	Editor			
		Company	Version	State	Remarks
From page 23	2002-02-07	Roman Reimer			
	<a href="#">Changes 1</a>	MEDOC	5	RD	
	1.10.1999	Dipl.-Ing. Bernhard Weichel			
	<a href="#">Changes 2</a>	MEDOC	4	rd	
	8.9.1999	Dipl.-Ing. Bernhard Weichel			
	<a href="#">Changes 3</a>	MEDOC	3	rd	
	30.7.1999	Dipl.-Ing. Bernhard Weichel			
	<a href="#">Changes 4</a>	MEDOC	2	rd	
	15.6.1999	Dipl.-Ing. Bernhard Weichel			
	<a href="#">Changes 5</a>	MEDOC	1	rd	

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MEDOC

### **Language (`—lang`)**

English

### **Treatment of content for Xrefs (`—xrefcontent`)**

Xref classes are shown

### **Specifying 'See' for XRefs**

'See' is to be inserted for xrefs

### **Treatment of filenames in graphics (`—figname`)**

Filenames for graphics are shown

### **Treatment of width and height attributes of graphics (`—figdimension`)**

Width and height of graphics is not considered

### **Titlepage Graphic (`—graphic`)**

No title graphic specified

### **Logo Graphic (`—head-logo`)**

msrreportlogo.eps

### **Fixtext File (`—fixtext`)**

C:\Programme\Medoc\Metapage\mmapps\msrrep\lib\msrrep\_ft.xml

### **Output of Local Administrative Data (`—admindata`)**

Local administrative data is output

### **Filename**

C:\Docs\MEDOC\MSRFMEA\docs\en\leadoc\msrfmea-eadoc\_V210.xml

### **MetaMorphosis-Version**

3.2

### **Form Version**

2.0 (MetaPage)

### **Date**

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