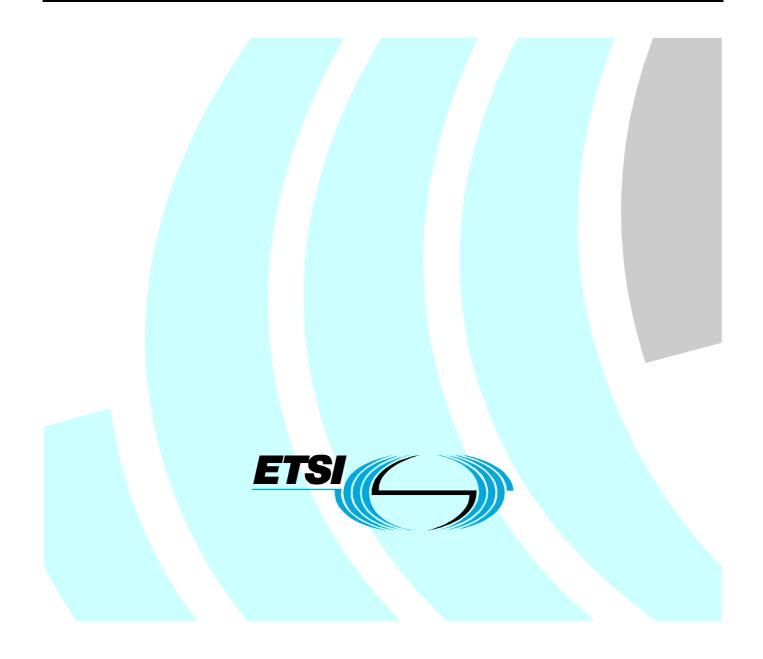
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Special Report

ETSI drafting rules



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Foreword

This Special Report (SR) has been produced by ETSI Secretariat.

The ETSI Secretariat provides further guidance on drafting of ETSI deliverables via its <u>editHelp!</u> function. The service consists of an on-line part, available via:

• <u>http://portal.etsi.org/edithelp/home.asp</u>

and personal advice, can be obtained from:

- tel +33 4 92 94 43 43
- fax +33 4 93 65 23 77 or
- e-mail edithelp@etsi.fr



NOTE:

Wherever <u>editHelp!</u> is mentioned in the present document (click on it), further information can be found on the web site.

The on-line *editHelp!* provides the latest version of the present document and other useful information.

Items concerning word-processor specific layout and formatting matters when using the Microsoft[®] Word for Windows[®] based ETSI skeleton documents and templates are shown with **shaded** background. Boiler plate text (i.e. text which shall be directly used in ETSI deliverables) is represented by *italic* characters.

Please be informed that the following significant changes have been made since V1.4.1:

- in clause 9 "Foreword of an ETSI deliverable" an option has been added for explaining the relationship between the various parts of a multi-part deliverable,
- in clause B4 more details about TTCN have been added.
- NOTE: A free-standing HTML version of the present document is available from: <u>http://portal.etsi.org/edithelp/edr/edr.asp</u> (Download EDRnavigator4_0.chm for a more user-friendly version of the ETSI drafting rules).

May we stress the **importance of the quality of inputs sent to the ETSI Secretariat by Rapporteurs**: Word documents which are corrupted, badly formatted or not conforming to the ETSI drafting rules **considerably increase the amount of time necessary to release and/or publish** deliverables.

1 Scope

The present document specifies rules for the structure and drafting of documents intended to become ETSI deliverables. These rules complement the ETSI Technical Working Procedures (TWP) (<u>http://portal.etsi.org/directives/home.asp</u>) and are intended to ensure that such documents are drafted in as uniform a manner as is practicable, irrespective of the technical content.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either **specific** (identified by date of publication, edition number, version number, etc.) or **non-specific**.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

ETSI Directives: "ETSI Statutes; ETSI Rules of Procedure; ETSI Board Working Procedures; Powers and Functions of the Board; Terms of Reference of the Operational Co-ordination Group (OCG); ETSI Technical Working Procedures".

ETSI TCR-TR 006: "Methods for Testing and Specification (MTS); ETSI and certification in telecommunications; Overview of outstanding issues and some recommendations".

ETSI EG 201 058: "Methods for Testing and Specification (MTS); Implementation Conformance Statement (ICS) proforma style guide".

ETSI SR 001 470: "Guidance to the production of candidate Harmonized Standards for application under the R&TTE Directive (1999/5/EC); Pro-forma candidate Harmonized Standard".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in the ETSI Directives and the following apply:

informative elements: elements that provide additional information intended to assist the understanding or use of the ETSI deliverable

informative reference: references that are not essential to the use of the ETSI deliverable but that assist the user with regard to a particular subject area

instruction: provision that conveys an action to be performed [ISO/IEC Guide 2: 1996, definition 7.3]

normative elements: elements setting out the provisions to which it is necessary to conform in order to be able to claim compliance with the ETSI deliverable

normative reference: references that are essential to the use of the ETSI deliverable, i.e. without which the deliverable cannot be implemented

provision: expression in the content of an ETSI deliverable, that takes the form of a statement, an instruction, a recommendation or a requirement

NOTE: These types of provision are distinguished by the form of wording they employ; e.g. instructions are expressed in the imperative mood, recommendations by the use of the auxiliary "should" and requirements by the use of the auxiliary "shall" (see clause 23).

publicly available: in the context of referencing documents within ETSI deliverables, a document that may be obtained from the source organization by any person (with or without payment), simply by quoting the reference given in the ETSI deliverable to the source organization or other typical supplier (e.g. National Standards Organization, Library, ...)

NOTE: ETSI deliverables are made publicly available during the various stages of the relevant approval procedures prior to publication and at the point of publication. Thus, for ETSI deliverables, public availability is a broader concept than publication. The specific status of a publicly available ETSI deliverable may be determined by examining its History clause.

This may also be true of other standardization bodies whose documents are referenced by ETSI and this is taken into account during the preparation of ETSI deliverables.

EXAMPLE: A Public Enquiry version of an ETSI deliverable is made publicly available by ETSI and therefore fulfils the above definition.

published: specific case of public availability for an ETSI deliverable, occurring when all relevant approval procedures have been successfully completed

NOTE: A published deliverable may be identified by examining the History clause of the document in question. The last line in the History box will contain the word "Publication".

recommendation: provision that conveys advice or guidance [ISO/IEC Guide 2: 1996, definition 7.4]

requirement: provision that conveys criteria to be fulfilled [ISO/IEC Guide 2: 1996, definition 7.5]

statement: provision that conveys information [ISO/IEC Guide 2: 1996, definition 7.2]

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

ASCII ASN.1	American Standard Code for Information Interchange Abstract Syntax Notation no. 1
CIF	Common Interchange Format
EN	European Standard (Telecommunications series)
EG	ETSI Guide
ES	ETSI Standard
ETS	European Telecommunication Standard
GDMO	Guidelines for the Definition of Managed Objects
GR	Graphical Rendition
HMSC	High level MSC
ICS	Implementation Conformance Statement
IPR	Intellectual Property Rights
MP	Machine Processable
MSC	Message Sequence Charts
PDF	Portable Document Format
SDL	Specification and Description Language
SDT	SDL Development Tool
SR	ETSI Special Report
TR	ETSI Technical Report
TS	ETSI Technical Specification
TTCN	Testing and Test Control Notation
TTCN	Tree and Tabular Combined Notation

NOTE: The introduction of TTCN-3 led to a name change from Tree and Tabular Combined Notation to Testing and Test Control Notation. It shall be made clear in each ETSI deliverable which version of TTCN applies.

4 General principles

4.1 Objective

The objective of an ETSI deliverable is to define clear and unambiguous provisions in order to facilitate international trade and communication. To achieve this objective, the ETSI deliverable shall:

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- be as complete as necessary within the limits specified by its scope;
- be consistent, clear and accurate;
- provide a framework for future technological development; and
- be comprehensible to qualified persons who have not participated in its preparation.

4.2 Homogeneity

Uniformity of structure, of style and of terminology shall be maintained not only within each ETSI deliverable, but also within a series of associated ETSI deliverables. The structure of associated ETSI deliverables and the numbering of their clauses shall, as far as possible, be identical. Analogous wording shall be used to express analogous provisions; identical wording shall be used to express identical provisions.

The same term shall be used throughout each ETSI deliverable or series of ETSI deliverables to designate a given concept. The use of an alternative term (synonym) for a concept already defined shall be avoided. As far as possible, only one meaning shall be attributed to each term chosen.

These requirements are particularly important not only to ensure comprehension of the ETSI deliverable but also to derive the maximum benefit available through automated text processing techniques.

4.3 Consistency of ETSI deliverables

In order to achieve the aim of consistency within the complete body of ETSI deliverables, the text of every ETSI deliverable shall be in accordance with the relevant provisions of existing basic ETSI deliverables. This relates particularly to:

- standardized terminology;
- principles and methods of terminology;
- quantities, units and their symbols;
- abbreviations;
- bibliographic references; and
- graphical symbols.

In addition, for specific technical aspects, the relevant provisions of general ETSI deliverables dealing with the following subjects shall be respected:

- limits;
- tolerance of dimensions and uncertainty of measurement;
- preferred numbers;
- statistical methods;
- environmental conditions and associated tests.

4.4 Equivalence of official language versions

ETSI deliverables shall be in the English language only.

4.5 Fitness for implementation as a national, regional or international standard

The content of an ETSI deliverable shall be drawn up in such a way as to facilitate its direct application and its adoption without change as a national, regional or international standard (see ETSI Rules of Procedure, article 13.7).

4.6 Planning

Rules for the planning of new work items are given in the ETSI Directives. When creating a new work item, it is useful to consider whether the end result will be one or more ETSI deliverables (for example, a multi-part standard). In the case where multiple deliverables are expected, some thought should be given to the intended structure and any interrelationships between the various components as this facilitates work planning in both the Technical Body and in the Secretariat.

In the case of a multi-part ETSI deliverable, a list of the intended parts together with their titles should be drawn up. The drafting rules given in the present document shall be applied from the very beginning of the work and throughout all subsequent stages to avoid delay at any stage.

4.7 Legal master of an ETSI deliverable

ETSI deliverables are made publicly available by ETSI in PDF format. Other formats may also be available.

From a legal point of view, the official version of a document is the one which is recognized by the author as being the definitive and mature version of his/her work at a certain date. The official version of a document constitutes a reference from which it is possible to identify that amendments have been made.

In ETSI, the definitive version of an ETSI deliverable (until further amendments are made) is the one that has been checked by the Secretariat and incorporates the amendments resulting from the Approval process prescribed for the ETSI deliverable in the Technical Working Procedures. These versions have been for a long time the paper versions of the ETSI deliverables, since the documents were not available entirely in electronic format. When the Secretariat has ensured that the ETSI deliverables produced are available in PDF format, the official version of the ETSI deliverable is the electronic PDF file kept in ETSI.

However, the information contained in an electronic file is not directly visible, and becomes only visible for the public when the file is either opened on the computer screen or when the file is printed. Therefore, it can be said that the official versions of the ETSI deliverables, which are entirely produced in electronic format, are the printed version on ETSI printers of the PDF files, which are kept at a specific location in the ETSI Secretariat.

In case of a complaint for a mistake included in an ETSI deliverable, the legal reference would so far be the paper version of the ETSI deliverable kept in ETSI, or the printing of the PDF version of the ETSI deliverable kept by ETSI.

5 Structure

5.1 Subdivision of the subject matter

5.1.1 General

ETSI deliverables are so diverse that no universally acceptable rules can be established for the subdivision of the subject matter.

However, as a general rule, an individual ETSI deliverable shall be prepared for each subject to be standardized, and published as a complete entity. In specific cases and for practical reasons, for example:

- the ETSI deliverable is likely to become too voluminous;
- subsequent portions of the content are interlinked;
- portions of the ETSI deliverable could be referred to in regulations; or
- portions of the ETSI deliverable are intended to serve for certification purposes,

the ETSI deliverable may be split into separate parts under the same number. This has the advantage that each part can be changed separately when the need arises.

In particular, the aspects of a product which will be of separate interest to different parties (e.g. manufacturers, operators, certification bodies, legislative bodies) shall be clearly distinguished, preferably as parts of an ETSI deliverable or as separate ETSI deliverables.

Such individual aspects are, for example:

- performance requirements;
- maintenance and service requirements; and
- quality assessment.

The terms that shall be used to designate the divisions and subdivisions that an ETSI deliverable may have are shown in table 1.

Term	Example of numbering
part	ES 201 111-1
sub-part	ES 201 111-1-2
clause	1
clause	1.1
clause	1.1.1
annex	A
clause	A.1
clause	A.1.1

Table 1: Names of divisions and subdivisions

5.1.2 Subdivision of the subject matter within a series of parts

There are two systems in use for subdividing into parts:

- a) Each part deals with a specific aspect of the subject and can stand alone.
- b) There are both common and specific aspects to the subject. The common aspects shall be given in part 1. Specific aspects (which may modify or supplement the common aspects and therefore cannot stand alone) shall be given in individual parts.

Since the complete series of parts is normally under the control of the same Technical Body, the use of non-specific references (see clause 12.4) is permitted, provided that corresponding changes are implemented simultaneously in all parts.

5.1.3 Subdivision of the subject matter within an individual ETSI deliverable

Type of element	Arrangement of elements in an ETSI deliverable (note)	Permitted content of element(s) in an ETSI deliverable (note)	Reference
	Title page	Title	clause 6
	Table of contents	(generated content)	clause 7
	Intellectual Property Rights	Text	clause 8
Informative preliminary	Foreword	Note(s)	clause 9
	Transposition	Table	clause 9a
	Introduction	Text Figure(s) Table(s) Note(s)	clause 10
Normative general	Scope	Text Figure(s) Table(s) Note(s)	clause 11
	Reference(s)	Reference(s)	clause 12
Normative technical	Definition(s) Symbols and abbreviations Requirements :	Text Figure(s) Table(s) Note(s)	clause 13 clause 14 clause 15
	Normative annex		clause 16.2
Informative	Informative guidance Informative annex	Text Figure(s) Table(s Note(s)	clause 16.3
supplementary	Bibliography	Informative reference(s) and reading material	clause 17
	Index	(generated content)	clause 18
	History	Table	clause 19

Table 2: Example of a typical arrangement of elements in an ETSI deliverable

An ETSI deliverable need not contain all the normative technical elements shown in table 2 and it may contain normative technical elements other than those shown. Both the nature of the normative technical elements and their sequence are determined by the nature of the ETSI deliverable in question.

An ETSI deliverable may also contain notes to figures and tables (see clauses 20.3.1 and 20.3.2).

5.2 Description and numbering of divisions and subdivisions

5.2.1 Parts and sub-parts

The number of a part shall be indicated by Arabic numerals, beginning with 1 (limited to 2 digits), following the ETSI deliverable number and preceded by a hyphen, for example:

• ES 201 999-1, ES 201 999-2, EN 300 356-33, EN 300 356-34.

The number of a sub-part shall be indicated by Arabic numerals, beginning with 1-1 (limited to 2 digits), following the ETSI deliverable number and preceded by a hyphen, for example:

• ES 201 999-1-1, ES 201 999-1-2, EN 300 356-33-10, EN 300 356-33-11.

5.2.1a General numbering issues

The "IPR" clause, the "Foreword" clause and the "Introduction" clause (optional) shall be unnumbered.

The clauses in each ETSI deliverable shall be numbered with Arabic numerals, beginning with 1 for the "Scope".

Every attempt shall be made to use continuous numbering. However, if continuous numbering cannot be maintained, a new element may be inserted in existing text using an appropriate alphanumeric designation that does not disturb the existing numbering scheme. This applies to all elements (e.g. clause, annex, figure, table, note, list).

- EXAMPLE 1: It is necessary to update an ETSI deliverable. A new clause needs to be inserted between the existing clauses 8 and 9. A new clause 8a may be inserted in preference to re-numbering the existing clauses.
- EXAMPLE 2: A new figure needs to be inserted between existing figures 4 and 5. A new figure 4a may be inserted to avoid re-numbering of all subsequent figures.

Similarly, an existing element may be deleted and replaced with the term "Void" to minimize disruption to the numbering scheme.

- EXAMPLE 3: During the updating of an ETSI deliverable, it is decided that annex C is no longer required. The title of annex C becomes "Void". Later annexes may therefore remain unchanged.
- EXAMPLE 4: It is decided to delete a note 3, so the text of note 3 becomes "Void." and there is no need to re-number note 4.

5.2.2 Clause

Each clause shall have a title which shall be placed after its number (except "IPR", "Foreword" and "Introduction" clauses, which are unnumbered), separated by a tab.

A clause can have numbered subdivisions, e.g. 5.1, 5.2, 5.1.1, 5.1.2, etc. This process of subdivisions may be continued as far as the sixth heading level (e.g. 6.5.4.3.2.1).

For numbering see 5.2.1a.

- Use the **Heading** style appropriate to its level (see table A.1).
- Separate the number of the heading and the text of the heading with a tab.
- Treat clause titles as normal text (i.e. no additional capitalization), but no full stop.

5.2.3 Automatic numbering

Automatic numbering **shall not be used** in ETSI deliverables as errors occur when the deliverable is converted to PDF format.

It is highly recommended to use sequence numbering (see clause A.4), as it is stable and therefore much safer than the Word default system.

A deliverable in which the Microsoft[®] Word for Windows[®] cross-referencing tool (Insert, Cross-reference) has been used (which implies the use of automatic heading or caption numbering) **will cause delay in the finalisation process**.

Reason: The ETSI Secretariat has to remove the automatic numbering to be able to convert to PDF format and therefore loses the cross referencing. The **re-constitution would be a potential source of errors** in the deliverable and would **slow down considerably the editing process**.

5.2.4 Paragraph

"Hanging paragraphs" such as those shown in the following example should be avoided when reference to them is ambiguous.

EXAMPLE 1: In the following example the hanging paragraphs indicated cannot be uniquely identified as being in "clause 5" since strictly speaking the paragraphs in clauses 5.1 and 5.2 are also in clause 5. To avoid this problem it would be necessary either to identify the unnumbered paragraphs as clause "5.1 Xxxxxxxxxx" and to renumber the existing 5.1 and 5.2 accordingly (as shown), or to move the hanging paragraphs elsewhere.

Recommended	Not recommended	
5 Title	5 Title	
5.1 Title	This text can not be referred to }	
This text can be referred to without any ambiguity.	in a precise manner as clause 5 } hanging paragraphs	
5.2 Title	also has subdivisions }	
This text can also be referred to without any ambiguity.	5.1 Xxxxxxxxx	
5.3 Title	This text can be referred to without any ambiguity.	
This text can also be referred to without any ambiguity.	5.2 Xxxxxxxxx	
6 Test report	This text can also be referred to without any ambiguity.	
	6 Test report	

EXAMPLE 2: In the following example an acceptable hanging paragraph is shown.

Acceptable		
5 Title		
The following clauses define aaa, bbb and ccc (see note).		
5.1 aaa		
This text about "aaa" can be referred to without any ambiguity.		
5.2 bbb		
This text about "bbb" can be referred to without any ambiguity.		
6 Test report		
NOTE: There is no need for reference to this text.		

5.2.5 Lists

Lists may be introduced by a sentence, a complete grammatical proposition or by the first part of a proposition, completed by the items in the list.

Each item in a list shall be preceded by a bullet, a dash, an Arabic numeral followed by a parenthesis, or a lower case letter followed by a parenthesis.

EXAMPLE 1:

- list item 1
- list item 2
- list item 3

EXAMPLE 2:

- list item 1;
- list item 2;
- list item 3.

EXAMPLE 3:

- list item 1,
- list item 2,
- list item 3.

EXAMPLE 4:

- 1) List item 1
- 2) List item 2
- 3) List item 3

EXAMPLE 5:

- a) List item a.
- b) List item b.
- c) List item c.

EXAMPLE 6:

- list item 1
 - list item 2
 - list item 3

```
NOTE: See table A.1 for different list styles.
```

If you use punctuation, respect the following rules:

- If the elements of a list are cast as phrases of a sentence which introduces the list, start each element with a lower case letter and end it with a semicolon. End the last item in the list with a full stop, unless the introductory sentence continues after the end of the list, in which case use the most appropriate punctuation (semicolon, comma, or none).
- If, however, each element of a list is a self-contained sentence, begin each with a capital letter and end each with a full-stop.

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- Use the appropriate bullet styles, i.e. styles B1 to B5 or B1+, B2+, B3+, BN, BL (see table A.1).
- Separate the list item identifier (e.g. bullet) and the text with a tab (if using styles **B1** to **B5**, the others are automatic bullet styles containing the space).
- Ensure that the formatting of the lists is consistent throughout the deliverable.

6 Contents of the title page

The title page shall contain the title of the ETSI deliverable.

The wording of the title shall be established by the Technical Body with the greatest care. While being as concise as possible, it shall indicate, without ambiguity, the subject matter of the ETSI deliverable in such a way as to distinguish it from that of other ETSI deliverables, without going into unnecessary detail. Any necessary additional particulars shall be given in the scope.

The title shall be composed of separate elements, each as short as possible, proceeding from the general to the particular. In general, not more than the following three elements shall be used:

- a) an introductory element (optional) indicating the general field to which the ETSI deliverable belongs; it should not be based on the name of the Technical Body which drafted the deliverable, especially if this is too broad to add much value;
- b) a main element (obligatory) indicating the principal subject treated within that general field;
- c) a complementary element (optional) indicating the particular aspect of the principal subject or giving details that distinguish the ETSI deliverable from other ETSI deliverables, or other parts of the same ETSI deliverable.

The ETSI Secretariat is responsible for the final preparation of the title page.

For multi-part deliverables, all the individual titles in a series of parts shall contain the same introductory element (if present) and main element, while the complementary element shall be different in each case in order to distinguish the parts from one another. The complementary element shall be preceded in each case by the designation "Part ...:" and "Sub-part ...:".

For endorsement of documents from other standards organizations, see annex C.

7 Table of contents

The table of contents shall be generated automatically and shall not be set manually. The title shall be "Contents".

- Use the **TT** style for the title.
- Use the field {TOC \o\w} for the table itself.

A table of contents for figures and/or tables is also allowed. If present, they shall appear as the last element (or just before the index if any), before the "History" clause. The title shall be "List of figures" and/or "List of tables".

- Use the **TT** style for the title.
- Use the field {TOC \t "TF" \c} for the list of figures and the field {TOC \t "TH" \c} for the list of tables.

NOTE: The ETSI Secretariat is responsible for the final layout of the table of contents.

8 Intellectual Property Rights (IPRs)

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (http://webapp.etsi.org/IPR/home.asp).

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All published ETSI deliverables shall include information pertaining to essential IPRs which are brought to the attention of ETSI prior to such publication. This element is provided by the Technical Body responsible for drafting the ETSI deliverable.

As a minimum, the "IPRs" clause shall contain an indication how to retrieve information pertaining to essential IPRs brought to the attention of ETSI. This element is provided by the Secretariat.

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Foreword in an ETSI deliverable

The "Foreword" clause in an ETSI deliverable is always the second unnumbered clause.

The "Foreword" shall appear in each ETSI deliverable. It shall not contain requirements, figures or tables, except for the transposition table (see clause 9a).

It shall always contain a general part, provided by the ETSI Secretariat, giving information on:

- the designation and name of the Technical Body that prepared the ETSI deliverable; and
- information regarding the approval of the ETSI deliverable.

Optionally, a specific part of the Foreword may be provided by the Technical Body giving as many of the following as are appropriate:

- an indication of any other organization that has contributed to the preparation of the ETSI deliverable;
- a statement that the ETSI deliverable cancels and replaces other documents in whole or in part;
- a statement of significant technical changes from the previous version of the ETSI deliverable;
- the relationship of the ETSI deliverable to other ETSI deliverables or other documents.

For multi-part deliverables, there are two options for explaining the relationship between the various parts in the series. Either:

- a) the first part shall include in its foreword an explanation of the intended structure of the series. In the "Foreword" of each part belonging to the series, a reference shall be made to the titles of all other parts, if they are known.
- b) a specific part (part 1) shall provide an explanation of the intended structure of the series, together with details of the titles, version numbers etc. of the various parts and sub-parts. Each time a new part or sub-part of the deliverable is made publicly available, the Secretariat shall publish a new version of Part 1 showing the details of the new document.

Option b) is the preferred option.

9a Transposition table

Each European Standard (EN, Telecommunications series) shall contain a transposition table as the last element in the Foreword. This element is provided by the Secretariat and its purpose is described in the ETSI Technical Working Procedures, clause 2.4.

10 Introduction in an ETSI deliverable

The "Introduction" is an optional preliminary element used, if required, to give specific information or commentary about the technical content of the ETSI deliverable, and about the reasons prompting its preparation. It shall not contain requirements.

The "Introduction" shall appear after the "Foreword" and not be numbered unless there is a need to create numbered subdivisions. In this case, it shall be numbered 0 with clauses being numbered 0.1, 0.2, etc. Any numbered figure, table or displayed formula shall be numbered normally beginning with 1 (see also clause 5.2.1a).

11 Scope in an ETSI deliverable

This element shall be clause 1 of each ETSI deliverable and define without ambiguity the subject of the ETSI deliverable and the aspect(s) covered, thereby indicating the limits of applicability of the ETSI deliverable or particular parts of it. It shall not contain requirements.

The "Scope" shall be succinct so that it can be used as a summary for bibliographic purposes.

This element shall be worded as a series of statements of fact. Forms of expression such as the following shall be used:

"The present document

- specifies

 the functional requirements for ..."
 a method of ..."
 the characteristics of ..."
 establishes
 {
 a system for ..."
 general principles for ..."
- gives guidelines for ... "
- gives terms and definitions ..."

Statements of applicability of the ETSI deliverable shall be introduced by the following wording:

"The present document is applicable to ... "

12 References in an ETSI deliverable

For the ETSI deliverable type "Technical Report", see clause 12.1.

References shall be provided if normative references are made to other documents. Preference shall be given to Standards, Recommendations or Technical Specifications issued by recognized standardization bodies or to Directives issued by the European Commission. Reproduction of elements from these other documents is deprecated (i.e. referencing is the preferred method in ETSI).

Normative referencing of other documents is allowed under the following condition:

- all documents shall be publicly available in the English language during the approval phases and at the time of publication of the ETSI deliverable, via the originating body or via the ETSI Secretariat.
- NOTE: If public availability cannot be guaranteed after publication has occurred, the originating body of the document shall be requested to provide ETSI with the right to make available the text; the ETSI Secretariat shall establish and maintain a list of the referenced documents and the relevant external bodies, for document tracking and cross-referencing purposes, and keep the necessary liaison with the originating body.

Normative references shall be listed in clause 2.

Normative references shall contain:

- the issuing organization;
- the document identity;
- the edition or version number for Harmonized Standards, see clause 12.3;
- the title.

If **normative** references cited in a deliverable are not publicly available during the drafting stage the deliverable shall not be submitted to an approval procedure until the reference is publicly available. Or the text shall be made available.

Informative references shall be listed in an informative annex entitled Bibliography (see clause 17). For a Technical Report, see clause 12.1.

Informative references should be publicly available (but no check will be made).

The distinction between normative and informative references must be made by the wording of the passage of the **document which refers to it**, not by the **referenced document itself**.

EXAMPLE: **"the test method shall be as described in ITU-T Recommendation M.50"**, then ITU-T Recommendation M.50 must appear as a **normative** reference.

"the test method is described in ITU-T Recommendation M.50", then ITU-T Recommendation M.50 is an informative reference.

The list of normative references under clause 2 shall be introduced by the following wording:

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- *References are either specific (identified by date of publication and/or edition number or version number) or non-specific.*
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, subsequent revisions do apply.

The list of normative references shall not include the following:

- informative references (such references may be listed in an annex entitled Bibliography);
- other reading material (such publications may be listed in an annex entitled Bibliography).
- Use the **EX** style, if using numbered references; enclose the number in square brackets and separate it from the title with a tab (you may use sequence fields for automatically numbering references, see clause A.4: "Sequence numbering") (see example 1).
- Use the **EX** style, if using square brackets containing identifications other then numbers; enclose the "identification" in square brackets and separate it from the title with a tab (see example 2).
- Use the Normal style, if not using numbered references (see example 3).

EXAMPLE 1:

- [1] ETSI EN 301 025-3: "ElectroMagnetic Compatibility and Radio Spectrum Matters (ERM); Technical characteristics and methods of measurement for VHF radiotelephone equipment for general communications and associated equipment for Class "D" Digital Selective Calling (DSC); Part 3: Harmonized EN under article 3.3 (e) of the R&TTE Directive".
- [2] ETSI ETS 300 163: "Television systems; NICAM 728: Specification for transmission of twochannel digital sound with terrestrial television systems B, G, H, I and L".

EXAMPLE 2:

[EG 201 212] ETSI EG 201 212: "Electrical safety; Classification of interfaces for equipment to be connected to telecommunication networks".
 [EN 300 429] ETSI EN 300 429: "Digital Video Broadcasting (DVB); Framing structure, channel coding and modulation for cable systems".

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EXAMPLE 3:

ETSI EN 301 025-3: "ElectroMagnetic Compatibility and Radio Spectrum Matters (ERM); Technical characteristics and methods of measurement for VHF radiotelephone equipment for general communications and associated equipment for Class "D" Digital Selective Calling (DSC); Part 3: Harmonized EN under article 3.3 (e) of the R&TTE Directive".

ETSI ETS 300 163: "Television systems; NICAM 728: Specification for transmission of two-channel digital sound with terrestrial television systems B, G, H, I and L".

12.1 Presentation of references in an ETSI Technical Report

A TR is entirely informative.

The list of references under clause 2 within a Technical Report shall be introduced by the following wording:

For the purposes of this Technical Report (TR), the following references apply:

- Use the **EX** style, if using numbered references; enclose the number in square brackets and separate it from the title with a tab (you may use sequence fields for automatically numbering references, see clause A.4: "Sequence numbering") (see example 1).
- Use the **EX** style, if using square brackets containing identifications other then numbers; enclose the "identification" in square brackets and separate it from the title with a tab (see example 2).
- Use the **Normal** style, if not using numbered references (see example 3).

EXAMPLE 1:

- [1] ETSI EN 301 025-3(V1.1.1): "ElectroMagnetic Compatibility and Radio Spectrum Matters (ERM); Technical characteristics and methods of measurement for VHF radiotelephone equipment for general communications and associated equipment for Class "D" Digital Selective Calling (DSC); Part 3: Harmonized EN under article 3.3 (e) of the R&TTE Directive".
- [2] ETSI ETS 300 163: "Television systems; NICAM 728: Specification for transmission of twochannel digital sound with terrestrial television systems B, G, H, I and L".

EXAMPLE 2:

- [EG 201 212] ETSI EG 201 212: "Electrical safety; Classification of interfaces for equipment to be connected to telecommunication networks".
- [EN 300 429] ETSI EN 300 429: "Digital Video Broadcasting (DVB); Framing structure, channel coding and modulation for cable systems".

EXAMPLE 3:

ETSI EN 301 025-3 (V1.1.1): "ElectroMagnetic Compatibility and Radio Spectrum Matters (ERM); Technical characteristics and methods of measurement for VHF radiotelephone equipment for general communications and associated equipment for Class "D" Digital Selective Calling (DSC); Part 3: Harmonized EN under article 3.3 (e) of the R&TTE Directive".

ETSI ETS 300 163: "Television systems; NICAM 728: Specification for transmission of two-channel digital sound with terrestrial television systems B, G, H, I and L".

ETSI EN 300 429: "Digital Video Broadcasting (DVB); Framing structure, channel coding and modulation for cable systems".

12.2 Presentation of informative references and other reading material

This list within an annex shall be introduced by the following clause heading:

Annex X (informative): Bibliography

The Bibliography shall not include the following:

- normative references (such references shall be listed in clause 2).
- Use the **Normal** style or a bulleted style (e.g. B1+) and do not use numbered references. (If you want to refer to such a publication from the text use (*see annex X*) instead).

EXAMPLE:

ITU-T Recommendation X.200: "Title".

ISO/IEC 17875: "Title".

Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity ("the R&TTE Directive").

<Primary responsibility>. <Title>. <Edition>. <Year>, <Issue designation>, <Page location>. (e.g. WEAVER, William. "Command performances". December 1985, vol. 42, n° 12, p. 126-133).

12.3 Specific references

References in Harmonized Standards shall be published and specific (identified by date of publication and/or edition number or version number).

12.4 Non-specific references

Unlike ETSI, many other Standards bodies, (e.g. ISO, CEN, CENELEC) have a policy of regularly reviewing/maintaining their deliverables. Their procedures also involve the automatic withdrawal of the previous version. It therefore follows that any ETSI deliverable making specific references to such documents will need to be revised. It may therefore be appropriate that ETSI deliverable contains non-specific references, provided that the following requirements can be fulfilled:

- it is accepted that it will be possible to use future changes of the document referred to for the purposes of the referring ETSI deliverable;
- it is granted that the structure of the document referred to will not change for the specific areas which are used by the referring ETSI deliverable (e.g. the referred to document is controlled by the same Technical Body as the referring one).

12.5 References to the ETSI deliverable as a whole in its own text

12.5.1 Single deliverable

The form "the present document ..." shall be used.

12.5.2 Multi-part deliverable

The following formulation shall be used:

For a specific part:

- "EN 300 256-2 is ...".

For various specific parts:

- "EN 300 256-7 to EN 300 256-9 are....".
- "EN 300 256-5 and EN 300 256-8 are ...".

For all parts:

- "All parts of EN 300 256 ..."

12.6 References to elements of text

Use, for example, the following forms:

- "in accordance with clause 3";
- "according to clause 3.1";
- "as specified in clause 3.1 b)";
- "details as given in clause 3.1.1";
- "see annex B";
- "the requirements given in clause B.2";
- "see the note in table 2";
- "see example 2 in clause 6.6.3";
- "see note 3 in clause 6.6.1";
- "see figure B.2 in clause 5.4".

If there is a need to refer to an unnumbered list item, the following formulation shall be used:

"as specified in clause 3.1, second list item".

Lower case letters are recommended (e.g. clause 1, annex A), however capital letters are also acceptable (e.g. Clause 1, Annex A). Usage should be consistent throughout the document.

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References shall be made in the forms indicated in clauses 12.4 to 12.7 and shall not be made to page numbers.

12.7 References to tables and figures

Every table and figure included in the ETSI deliverable shall be referred to in the text.

Use, for example, the following forms:

- "given in table 2";
- "(see table B.2)";
- "shown in figure A.6";
- "(see figure 3)".

Lower case letters are recommended (e.g. table 1, figure 2), however capital letters are also acceptable (e.g. Table 1, Figure 2). Usage should be consistent throughout the document.

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12.8 References to specific or unspecific references

Use one of the following forms consistently throughout the deliverable:

- " ... in accordance with ES 201 001, clause 3, ... ";
- " ... in accordance with ES 201 001 [n], clause 3, ... ";
- " ... in accordance with [ES 201 001], clause 3, ...".

12.9 Reference to 3GPP deliverables

All deliverables prepared by the 3rd generation partnership project (3GPP) contain the following notice:

"The present document has been developed within the 3rd Generation Partnership Project (3GPP TM) and may be further elaborated for the purposes of 3GPP. The present document has not been subject to any approval process by the 3GPP Organisational Partners and shall not be implemented. This Specification is provided for future development work within 3GPP only. The Organisational Partners accept no liability for any use of this Specification. Specifications and reports for implementation of the 3GPP TM system should be obtained via the 3GPP Organisational Partners' Publications Offices."

For this reason, all references made to 3GPP documents made in draft deliverables will be changed by the ETSI Secretariat to a reference to the equivalent ETSI deliverable.

EXAMPLE: A reference to 3GPP TS 23.040 will be changed to a reference to ETSI TS 123 040.

13 Terms and definitions in an ETSI deliverable

This is an optional element giving definitions necessary for the understanding of certain terms used in the ETSI deliverable. The following introductory wording, modified as appropriate, shall be used:

For the purposes of the present document, the terms and definitions given in ... and the following apply:

- A definition shall not take the form of, or contain, a requirement.
- The form of a definition shall be such that it can replace the term in context. Additional information shall be given only in the form of examples or notes (see below).
- The terms and definitions shall be presented in alphabetical order.

Examples of term usage, and notes concerning entries, shall be presented as shown below.

EXAMPLE 1:

radix; base (deprecated): [radix numeration system] positive integer by which the weight of any digital place is multiplied to obtain the weight of the digit place with the next higher weight

NOTE 1: In the decimal numeration system the radix of each digit place is 10.

NOTE 2: The term "base" is deprecated in this sense because of its mathematical use.

END of EXAMPLE 1.

- The term shall be in **bold**, and shall start with a lower case letter (unless it is always rendered with a leading capital) followed by a colon, one space, and the definition starting with a lower case letter and no ending full-stop.
- Use the Normal style.
- If there is several notes for the same definition, the notes shall be numbered. Otherwise it is not necessary.

EXAMPLE 2:

fast channel: channel with low latency but higher BER in comparison to the slow channel

EXAMPLE: In contrast to the slow channel, the fast channel is not interleaved.

requirement: provision that conveys criteria to be fulfilled

14 Symbols and abbreviations in an ETSI deliverable

This is an optional element giving a list of the symbols and abbreviations necessary for the understanding of the ETSI deliverable. The following introductory wording, modified as appropriate, shall be used:

For the purposes of the present document, the following {<symbols>/<abbreviations>} apply:

This list shall contain all technical abbreviations and their corresponding full terms which are used within the ETSI deliverable in alphabetical order.

This element, if it exists, shall be combined with the definitions in order to bring together terms and their definitions, symbols and abbreviations under an appropriate composite title, for example "Definitions, symbols and abbreviations".

Do not number the entries in the symbols and/or abbreviations clause.

- Use the **EW** style (**EX** style for the last element in the list).
- Separate the abbreviation from the full term with a tab.

EXAMPLE:

dB	decibel
DDI	Direct Dialling-In, or direct dialling-in

15 Requirements and test methods

15.1 Requirements

This element is optional. If present, it shall contain:

- a) all characteristics relevant to the aspect(s) of the product(s), process(es) or service(s) covered by the ETSI deliverable, either explicitly or by reference;
- b) the required limiting values of quantifiable characteristics.

A clear distinction shall be made between requirements, statements and recommendations (see also clause 23).

Contractual requirements concerning claims, guarantees, covering of expenses, etc. shall not be included.

ETSI deliverables listing characteristics for which suppliers are required to state values that are not specified by the ETSI deliverable itself shall specify how such values are to be measured and stated.

For endorsement of documents from other standards organizations, see annex C.

15.2 Test methods

This optional element gives all the instructions concerning the procedure for determining the values of characteristics, or for checking conformity to stated requirements, and for ensuring the reproducibility of the results. If appropriate, tests shall be identified to indicate whether they are type tests, routine tests, sampling tests and so on.

Instructions relating to test methods may be subdivided in the following order (where appropriate):

- a) principle;
- b) apparatus;
- c) preparation and preservation of test samples and test pieces;
- d) procedure;
- e) test report.

Test methods may be presented as separate clauses, or be incorporated in requirements, or be presented as annexes (see clause 16.1) or as separate parts (see clause 5.2.1). A test method shall be prepared as a separate ETSI deliverable if it is likely to be referred to in a number of other ETSI deliverables.

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The need for specification of test methods shall be evaluated on a case by case basis, in accordance with TCR-TR 006.

A test specification enables verification that products designed to a standard conform to its requirements. When writing a TS, ES or EN, you should consider the need for an accompanying test specification.

Every requirement of an ETSI deliverable specifying a product (equipment, system or service) needs to be testable, and such requirements need to be clearly distinguishable from statements of fact or of supposition.

EXAMPLE: Comparing the two sentences below:

"On receiving a START CALL message, the terminal shall respond by sending an ACKNOWLEDGE message within a delay of t_1 ."

"On receiving a START CALL primitive, the layer 3 protocol of the terminal shall move to state CALL ACTIVATED and shall start timer t₂."

It is clear that conformance to the first requirement can be verified by external stimulus and observation, whereas the second puts demands on a conceptual model which cannot be explicitly tested. Whilst requirements of the latter sort are useful - even essential - for describing operational details, the essential behavioural characteristics (normative provisions) are given by requirements of the type of the former, and only these are verifiable.

16 Annex in an ETSI deliverable

16.1 General

For the description of normative and informative annexes, see clauses 16.2 and 16.3.

Each annex shall start on a new page.

Each annex shall be designated by a heading comprising the word "Annex" followed by a capital letter designating its serial order, beginning with "A", e.g. "Annex A" (see also clause 5.2.1a). The annex heading shall be followed by the indication "(normative):" or "(informative):", and by the title on the next line.

- EXAMPLE 1: Annex A (normative): Title of annex A
- NOTE: The only exception to this rule is for the deliverable type TR which is entirely informative. Thus the addition of "(normative):" or "(informative):" after the annex identifier is superfluous and shall not be provided.

EXAMPLE 2: Annex A: Title of annex A

Numbers given to the clauses, tables, figures and mathematical formulae of an annex shall be preceded by the letter designating that annex followed by a full-stop (e.g. figure B.1, table C.4). The numbering shall start afresh with each annex. A single annex shall be designated "Annex A".

Clauses in annex A shall be designated "A.1", "A.2", "A.3", etc. (see also clause 5.2.1a).

For endorsement of documents from other standards organizations, see annex C.

- Use the **Heading 8** style (for TR use the **Heading 9** style) for the annex heading. Insert a line break ("shift" + ↓ "enter") between the colon and the title.
- For all annex clause headings use the appropriate Heading styles, starting from **Heading 1**, e.g. for clause A.1 use **Heading 1**, for clause A.1.1 use **Heading 2**.

16.2 Normative annexes

For reasons of convenience it may be decided to place some part of the normative text in an annex.

Normative annexes contain provisions to which it is necessary to conform in order to be able to claim compliance with the ETSI deliverable. Their presence is optional and their status (except for TRs, see note in clause 16.1) shall be indicated in the heading of the annex.

16.3 Informative annexes

For reasons of convenience it may be decided to place some part of the informative text in an annex.

Informative annexes give additional information intended to assist the understanding or use of the ETSI deliverable and shall not contain provisions to which it is necessary to conform in order to be able to claim compliance with the ETSI deliverable. Their presence is optional and their status (except for TRs, see note in clause 16.1) shall be indicated in the heading of the annex.

17 Bibliography in an ETSI deliverable

A "Bibliography", if present, shall be an annex entitled "Bibliography".

The "Bibliography" identifies informative references and other reading material. Those publications might or might not be publicly available (no check is made).

- For the "Bibliography" annex use **Heading 8** style (for TR use the **Heading 9** style).
- For the listed material use the **Normal** style or bulleted lists (e.g. **B1**+).

18 Index in an ETSI deliverable

An index, if present, shall appear as the last element, but before the "History" clause. The title shall be "Index".

- Format the index in a section having two columns separated by 0,5 cm using the field {INDEX $e'' \to c'''$ }.
- Use the **Heading 1** style for the title.

19 History in an ETSI deliverable

A history box shall be provided by the ETSI Secretariat as the final unnumbered element in an ETSI deliverable and shows the major milestones in the life of a document.

If it is desired to keep a detailed record of the document history (other than the major milestones) it is recommended that this is done by inserting a separate, informative annex.

• Use **Heading 1** style for the title.

20 Notes and examples

20.1 Notes and examples integrated in the text

Notes and examples should preferably be placed at the end of the clause, or after the paragraph, to which they refer.

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A single note in a clause shall be preceded by "NOTE:", placed at the beginning of the first line of the text of the note. When several notes occur within the same element (e.g. clause), they shall be designated "NOTE 1:", "NOTE 2:", "NOTE 3:", etc. (see also clause 5.2.1a).

The word NOTE shall appear in upper case.

- Use the **NO** style.
- Separate NOTE: from the text of the note with a tab.

EXAMPLE 1:

NOTE: Note text formatted with the NO style will be formatted with a space after the paragraph.

END of EXAMPLE 1

A single example in a clause shall be preceded by "EXAMPLE:", placed at the beginning of the first line of the text of the example. When several examples occur within the same element (e.g. clause), they shall be designated "EXAMPLE 1:", "EXAMPLE 2:", "EXAMPLE 3:", etc. (see also clause 5.2.1a).

When there is a danger that it may not be clear where the example ends and the normal text continues, then the end of the example may be designated by "END of EXAMPLE".

The word EXAMPLE shall appear in upper case.

- Use the **EX** style.
- Separate EXAMPLE: from the text of the example with a tab.

EXAMPLE 2:

EXAMPLE: Example text.

END of EXAMPLE 2

20.2 Footnotes to the text

Footnotes shall not be used in ETSI deliverables. If necessary notes integrated in the text shall be used.

20.3 Notes to figures and notes to tables

20.3.1 Notes to figures

Notes to figures shall be treated independently from notes integrated in the text (see clause 20.1). They shall be located above the title of the relevant figure. A single note in a figure shall be preceded by "NOTE:". When several notes occur in the same figure, they shall be designated "NOTE 1:", "NOTE 2:", "NOTE 3:", etc. (see also clause 5.2.1a). A separate numbering sequence shall be used for each figure.

- Write notes to a figure using the word processor rather than embedding them in the figure itself.
- Use the NF style.
- Separate NOTE: from the text of the note with a tab.

20.3.2 Notes to tables

Notes to tables shall be treated independently from notes integrated in the text (see clause 20.1). They shall be located within the frame of the relevant table. A single note in a table shall be preceded by "NOTE:". When several notes occur in the same table, they shall be designated "NOTE 1:", "NOTE 2:", "NOTE 3:", etc. (see also clause 5.2.1a). A separate numbering sequence shall be used for each table.

- Use the **TAN** style.
- Separate NOTE: from the text of the note with a "Ctrl" + " \rightarrow " (tab).
- Include notes to a table within its borders in one cell, at the bottom.
- Merge all cells to one, as in the following example:

EXAMPLE:

Column 1 cell	Column 2 cell (see note 2)	Column 3 cell	Column 4 cell (see note 1)
NOTE 1: This cell is a mer	ged cell.		
NOTE 2: This cell is also a	merged cell.		

21 Figures

21.1 Usage

Figures should be used wherever appropriate to present information in an easily comprehensible form. Each figure shall be referred to explicitly within the text and therefore be numbered.

21.2 Format

Figures shall be prepared in accordance to clauses A.5 and/or B.1.

- Use the **TH** style on the paragraph which contains the figure itself.
- Maximum width for figures is 17 cm and maximum height is 22 cm.

21.3 Numbering

Figures may be numbered sequentially throughout the document without regard to the clause numbering, e.g. first figure is figure 1 and the twentieth figure (in, say clause 7) is figure 20.

Figures may also be numbered taking account of clause numbering.

EXAMPLE 1:	First figure in clause 5 is figure 5.1, second figure in clause 5.1.1 is figure 5.2, third figure in clause 5.2.3 is figure 5.3.
EXAMPLE 2:	First figure in clause 7 is figure 7.1, fifth figure in clause 7 is figure 7.5.

EXAMPLE 3: First figure in clause 7.3.2 is figure 7.3.2.1, fifth figure in clause 7.3.2 is figure 7.3.2.5.

One level of subdivision only is permitted (e.g. figure 1 may be subdivided as 1 a), 1 b), 1 c), etc.). See also clause 5.2.1a. For the numbering of figures in annexes, see clause 16.1.

• Should you wish to number figures automatically, "Sequence numbering" (see clause A.4) is highly recommended. Also see clause 5.2.3.

21.4 Layout of title

The figure title shall be below the figure. An explicit figure name is optional. See the following examples:

EXAMPLE 1:

Figure 1: Details of apparatus

EXAMPLE 2:

Figure 1

- Use the **TF** style.
- If applicable, the figure number is followed by a colon, a space and the figure name.

22 Tables

22.1 Usage

Tables should be used wherever appropriate to present information in an easily comprehensible form. Each table shall be referred to explicitly within the text and therefore be numbered.

- Centre tables horizontally.
- The "space between columns" is 0,1 pt or 0,05 cm.
- Maximum width for tables in portrait orientation: 17 cm and for landscape orientation: 22 cm.
- Set table columns widths in centimetres (not inches).
- Use borders to separate the rows and columns of tables, as appropriate; the precise format will depend on the structure of each table, but be consistent throughout a deliverable (or series of related deliverables). Borders should be ³/₄ pt single line.
- Each table shall be followed by an empty "Normal" style paragraph (↓ "Enter" key).

22.2 Format

The following styles should be used in table cells.

•	Table Headings	TAH
•	Text Left aligned	TAL
•	Text Centred	TAC
•	Text Right aligned	TAR
•	Text Justified	TAJ

22.3 Continuation of tables

The column headings shall be repeated on all pages after the first.

• Use the table headings tool (Table, Heading Rows Repeat)

22.4 Numbering

Tables may be numbered sequentially throughout the document without regard to the clause numbering, e.g. the first table is table 1 and the twentieth table (in, say clause 7) is table 20.

Tables may also be numbered taking account of clause numbering.

EXAMPLE 1: First table in clause 5 is table 5.1, second table in clause 5.1.1 is table 5.2, third table in clause 5.2.3 is table 5.3.EXAMPLE 2: First table in clause 7 is table 7.1, fifth table in clause 7 is table 7.5.

EXAMPLE 3: First table in clause 7.3.2 is table 7.3.2.1, fifth table in clause 7.3.2 is table 7.3.2.5.

One level of subdivision only is permitted (e.g. table 1 may be subdivided as 1 a), 1 b), 1 c), etc.). See also clause 5.2.1a. For the numbering of tables in annexes, see clause 16.

• Should you wish to number figures automatically, "Sequence numbering" (see clause A.4) is highly recommended. Also see clause 5.2.3.

22.5 Layout of title

The title shall be above the table. An explicit table name is optional. See the following examples:

EXAMPLE 1:

Table 1: Electrical properties

EXAMPLE 2:

Table 1

- Use the TH style.
- If applicable, the table number is followed by a colon, a space and the table name

22.6 Headings

The first word in the heading of each column shall begin with a capital letter. The units used in a given column shall generally be indicated within the column heading.

EXAMPLE:

Туре	Linear density (kg/m)	Inside diameter (mm)	Outside diameter (mm)

23 Verbal forms for the expression of provisions

An ETSI deliverable does not in itself impose any obligation upon anyone to follow it. However, such an obligation may be imposed, for example, by legislation or by a contract. In order to be able to claim compliance with an ETSI deliverable, the user needs to be able to identify the requirements that are obligatory. The user also needs to be able to distinguish these requirements from other provisions where there is a certain freedom of choice.

Clear rules for the use of verbal forms (including modal auxiliaries) are therefore essential. In the first column of tables 3 to 6 the verbal form that shall be used to express each kind of provision is given. The equivalent expressions given in the second column shall be used only in exceptional cases when the form given in the first column cannot be used for linguistic reasons.

NOTE 1: Only singular forms are shown.

The verbal forms shown in table 3 shall be used to indicate requirements strictly to be followed in order to conform to the standard and from which no deviation is permitted.

Verbal form Equivalent expressions for use in exceptional cases	
shall	is to
	is required to
	it is required that
	has to
	only is permitted
	it is necessary
	must
shall not	is not allowed [permitted] [acceptable] [permissible]
	is required to be not
	is required that be not
	is not to be
	must not
Do not use "may not" instead "shall not" to express a prohibition.	
To express a direct instru	ction, for example referring to steps to be taken in a test method, use
the imperative mood in E	nglish (e.g. "switch on the recorder").

Table 3: Requirement

The verbal forms shown in table 4 shall be used to indicate that among several possibilities one is recommended as particularly suitable, without mentioning or excluding others, or that a certain course of action is preferred but not necessarily required, or that (in the negative form) a certain possibility or course of action is deprecated but not prohibited.

Table 4: Recommendation

Verbal form	Equivalent expressions for use in exceptional cases
should	it is recommended that
	ought to
should not	it is not recommended that
	ought not to

The verbal forms shown in table 5 are used to indicate a course of action permissible within the limits of the ETSI deliverable.

Table 5: Permission

Verbal form	Equivalent expressions for use in exceptional cases
may	is permitted
-	is allowed
	is permissible
need not	it is not required that
	no is required
Do not use "possible" or	r "impossible" in this context.
Do not use "can" instea	d of ["] may" in this context.
	es permission expressed by the standard, whereas "can" refers to the
ability of a user of the standard or to a possibility open to him.	

The verbal forms shown in table 6 are used for statements of possibility and capability, whether material, physical or causal.

Verbal form can		Equivalent expressions for use in exceptional cases	
		be able to	
		there is a possibility of	
		it is possible to	
cannot		be unable to	
		there is no possibility of	
		it is not possible to	
Do not use	e "possible" or "imp	ossible" in this context.	
Do not use	e "can" instead of "i	may" in this context.	
	OTE: "May" signifies permission expressed by the standard, whereas "can" refers to the ability of a user of the standard or to a possibility open to him.		

NOTE 2: See expression of Inevitability and Fact at: http://portal.etsi.org/edithelp/uoe_intro.asp

24 Use of capital letters

Unnecessary use of capital letters should be avoided.

EXAMPLE: "user" is preferred to "User".

24a Different items concerning text

Use **bold** to emphasize text (the underline attribute causes confusion when revision marks are used).

Use *italic* for citations, linguistic expressions or when a word/text/expression is extracted from a specific context.

Use non-breaking spaces (°) or non-breaking hyphens (-) in order to avoid unexpected wrap around between two words and/or numbers (e.g. 50°cm, 1°000, clause°6 etc.). These characters appear as normal spaces () or hyphens (-) when printed out.

Use "straight" quotation marks ("...") not "curly" or "smart" ("...") ones.

It is not recommended to use underlined text.

Do not put more than one space after a full stop.

Do not precede comma (,), semicolon (;), colon (:), full stop (.), question mark (?) or exclamation mark (!) by spaces.

Do not use spaces in place of tabs when indentation/alignment is required; this can cause text to be misaligned.

25 Pagination

Unnecessary pagination, (i.e. use of hard page breaks) should be avoided.

• Use Format | Paragraph | Text Flow | Keep Lines Together and Keep with Next attributes instead of "hard" page breaks.

26 Use of trade names

A correct designation or description of a product shall be given rather than a trade name (brand name).

Proprietary trade names (i.e. trade marks) for a particular product should as far as possible be avoided, even if they are in common use.

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If, exceptionally, trade names cannot be avoided, their nature shall be indicated, e.g. by the symbol ® for a registered trade mark (see example 1).

EXAMPLE 1: Instead of "Teflon[®]", write "polytetrafluoroethylene (PTFE)".

If it is known that only one product is currently available that is suitable for the successful application of the standard, the trade name of the product may be given in the text of the standard but shall be associated with a note as shown in example 2.

EXAMPLE 2:

NOTE 1: "... [trade name of product] ... is the trade name of a product supplied by ... [supplier] This information is given for the convenience of users of the present document and does not constitute an endorsement by ETSI of the product named. Equivalent products may be used if they can be shown to lead to the same results."

If it is considered to be essential to give an example (or examples) of commercially available products suitable for successful application of the standard because the product characteristics are difficult to describe in detail, trade names may be given in a note as shown in example 3.

EXAMPLE 3:

NOTE 2: "... [trade name(s) of product(s)] ... is (are) an example(s) of a suitable product(s) available commercially. This information is given for the convenience of users of the present document and does not constitute an endorsement by ETSI of this (these) product(s)."

27 Representation of numbers and numerical values

The decimal sign shall be a comma. The thousand separator shall be a space.

NOTE: In the text below, ° represents the non-breaking space character.

If a value less than 1 is written in decimal form, the decimal sign shall be preceded by a zero.

EXAMPLE 1: 0,001

Each group of three digits reading to the left of a decimal sign shall be separated by a space from preceding digits or following digits respectively, except for four-digit numbers designating years.

EXAMPLE 2: 23°456 / 2°345 / 2,345 but the year 1997

For clarity, the symbol \times or a lower case x (rather than a point or any other symbol) shall be used to indicate multiplication of numbers and numerical values.

EXAMPLE 3: Write $1,8^{\circ}\times^{\circ}10^{-3}$ (not $1,8 * 10^{-3}$ or $1,8 \cdot 10^{-3}$ or $1,8 \cdot 10^{-3}$).

To express numbers of items (as opposed to numerical values of physical quantities), the numerals one to nine shall be spelt out in full.

EXAMPLE 4: "Carry out the test on five tubes, each 5 m long."

EXAMPLE 5: "Select a further 15 tubes for the pressure test."

Preserve document identities as in the original titles.

EXAMPLE 6: ISO/IEC°10531-1 (not ISO/IEC 10°531-1).

EXAMPLE 7: ES°201°150.

Put a non-breaking space between a number and its unit - including the percent sign (%) - even if the unit is not abbreviated:

EXAMPLE 8: 2°pages 4°seconds 15°%

Write a number preceded by a unary operator (sign) without an intervening space:

EXAMPLE 9: ... a level of -3° dB ...

Put a non-breaking space both before and after binary operators $(+, -, \times, \text{ etc.})$:

EXAMPLE 10: $a^{\circ}+^{\circ}b^{\circ}=^{\circ}c$

- Use non-breaking spaces ("Ctrl" + "Shift" + space) for the thousand separator, before and after binary operators and preceding units.
- Use a non-breaking hyphen ("Ctrl" + "Shift" + "-") for the minus sign.

28 Quantities, units, symbols and signs

The units in which any values are expressed shall be indicated.

29 Mathematical formulae

29.1 Types of equations

Equations between quantities are preferred to equations between numerical values. Equations shall be expressed in mathematically correct form, the variables being represented by letter symbols the meanings of which are explained in connection with the equations, unless they appear in a "Symbols and abbreviations" clause (see clause 14). Descriptive terms, acronyms or names of quantities shall not be arranged in the form of an equation.

EXAMPLE:

$$\tau = \sqrt{\frac{1}{(6n^2(N-3n+1))}} \sum_{j=1}^{N-3n+1} (\sum_{i=j}^{n+j-1} (x_{i+2n} - 2x_{i+n} + x_i))^2$$

where: x_i are samples of time errors data;

N is the total number of samples;

 τ is the time error sampling interval;

n is the number of sampling intervals, with n = 1, 2, ..., integer part (N/3).

29.2 Presentation

It is recommended to use Microsoft[®] Equation Editor.

- Use the **EQ** style.
- Insert one tab before the equation to centre it.

The equation editor sizes and styles should be respected as shown in the following examples:

In order to apply the following required settings, please download the equation editor registry file (available from <u>editHelp!)</u>.

Styles			
Style	Font	Characte	er Format
		Bold	Italic
Text	Times New Roman 💌		
Function	Times New Roman 💌		
Variable	Times New Roman 💌		
L.C. Greek	Symbol 💌		
U.C. Greek	. Symbol 💌		
Symbol	Symbol 💌		
Matrix-Vector	. Times New Roman 📃 💌		
Number	Times New Roman 💌		

Sizes		
Full	10pt	j
Subscript/Superscript	8pt	$(1, p)^2$
Sub-Subscript/Superscript	6pt	$(1+B)^2$
Symbol	20pt	$\begin{bmatrix} \sum X_{n_k} \end{bmatrix}$
Sub-symbol	12pt	p=1

29.3 Numbering

If it is necessary to number some or all of the formulae in an ETSI deliverable in order to facilitate cross-reference, Arabic numbers in parentheses shall be used, beginning with 1:

EXAMPLE 1:

$$x^2 + y^2 < z^2 \tag{1}$$

Equations may be numbered sequentially throughout the document without regard to the clause numbering, e.g. first equation is equation 1 and the twentieth equation (in, say clause 7) is equation 20.

Equations may also be numbered taking account of clause numbering.

- EXAMPLE 2: First equation in clause 5 is equation 5.1, second equation in clause 5.1.1 is equation 5.2, third equation in clause 5.2.3 is equation 5.3.
- EXAMPLE 3: First equation in clause 7 is equation 7.1, fifth equation in clause 7 is equation 7.5.
- EXAMPLE 4: First equation in clause 7.3.2 is equation 7.3.2.1, fifth equation in clause 7.3.2 is equation 7.3.2.5.

See also clause 5.2.1a. For the numbering of equations in annexes see clause 16.

- Should you wish to number figures automatically, "Sequence numbering" (see clause A.4) is highly recommended. Also see clause 5.2.3.
- Insert a tab between the equation and the number to right-align the number.

30 Indication of dimensions and tolerances

Dimensions and tolerances shall be indicated in an unambiguous manner.

NOTE: In the text below, ° represents the non-breaking space character.

EXAMPLE 1: $80 \text{ mm}^{\circ} \times^{\circ} 25 \text{ mm}^{\circ} \times^{\circ} 50 \text{ mm}$ (not $80 \times 25 \times 50 \text{ mm}$).

EXAMPLE 2: $80 \ \mu F^{\circ} \pm^{\circ} 2 \ \mu F$ or $(80 \pm 2) \ \mu F$.

EXAMPLE 3: 16 kbit/s to 64 kbit/s (not 16 to 64 kbit/s).

EXAMPLE 4: 0° C to 10° C (not 0 to 10° C).

EXAMPLE 4a: X = [1..8]

In order to avoid misunderstanding, tolerances on percentages shall be expressed in a mathematically correct form.

EXAMPLE 5: Write "from $63^{\circ}\%$ to $67^{\circ}\%$ " to express a range.

EXAMPLE 6: Write " $(65^{\circ}\pm^{\circ}2)^{\circ}\%$ " to express a centre value with tolerance.

The form " $65^{\circ}\pm^{\circ}2^{\circ}\%$ " shall not be used.

NOTE: For "scientific units" (e.g. "s" for second(s)), please refer to the "Use of English guide" provided on <u>editHelp!</u>.

31 Presentation of computer language and other code

Computer code (e.g. ASN.1, GDMO, C, C++, etc.) may be included in an ETSI deliverable but should be clearly marked as such.

• Use the **PL** style.

A.1 The ETSI styles

Use table A.1 when determining which style to use for various elements of the deliverable. Do not alter existing styles or formats pre-set in the ETSI styles, do not add new styles to the ETSI template and do not delete ETSI styles (see style FP in table A.1).

Use this style	For this type of element		
Heading styles	For different headings		
Heading 1	Clause		
Heading 2 to 5	Subdivision level 2 to 5		
Heading 6	Not used		
Heading 7	Not used		
Heading 8	Annex title		
Heading 9	Annex title for TRs only		
H5	Subdivision level 5 (reflected in the table of contents)		
H6	Subdivision level 6 (not reflected in the table of contents)		
Example styles	For examples and abbreviations/symbols lists		
EX	Reference, Example \rightarrow		
EW	Symbol, Abbreviation, Example continuation in text \rightarrow		
Note styles	For different notes		
NO	Note integrated in the text \rightarrow		
NF	Figure note \rightarrow		
Table styles	For formatting tables		
ТН	Table title, (also Figures)		
ТАН	Heading within table or column heading		
TAC	Centred text within table		
TAL	Left aligned text within table		
TAN	Note in table \rightarrow		
TAR	Right aligned text within table		
TAJ	Justified text within tables		
List styles (indents)			
B1 to B5	Indent 1 to 5		
B1+	Bulleted indent 1 (round bullets)		
B2+	Bulleted indent 2 (dashes)		
B3+	Bulleted indent 3 (square bullets)		
BN	Bulleted (numbers) indent 1		
BL	Bulleted (letters) indent 2		
General styles	tyles For different items		
Normal	Standard paragraph, Definition		
TF	Figure title (TH for Figure itself)		
TT	Contents list title		
PL	Programming language		
EQ	Equation		
Header	Header (portrait and landscape pages)		
Style which can be	For formatting defined by the user that will not be		
user-defined	altered by the ETSI processing macros		
FP	Free Paragraph		
ightarrow use "tab" between "item/number" and "text".			
EXAMPLE: The "tab" i			
NOTE: Other styles exist in the template, but are for use by the Secretariat only.			

Table A.1

A.2 Page numbering, page headers and footers

The skeleton document supplies fields for automatic page numbering and the identification of the deliverable in the page header. Do not add anything to or delete anything from the headers and footers.

• Use the **HEADER** style on all page headers (sections) except for the title page (section).

A.3 Configuration of the Windows[®] environment

Set your Windows® environment to use the English (International) conventions (via Control Panel, International).

- Use centimetres as the preferred unit of measurement.
- Do not select "Change 'Straight Quotes' to 'Smart Quotes'" in the AutoCorrect options.
- Set Default Tab Stops to 0,5 cm.
- The remaining configurable elements of Windows[®] and of Word are at your discretion.

A.4 Sequence numbering and bookmarking

Sequence numbering is highly recommended to automatically number sets of items within a deliverable, especially if the document is long and/or contains numerous references, tables, figures, equations, etc. It avoids renumbering the whole sets when inserting new items.

Sequence numbers may also be bookmarked, in order to facilitate cross-referencing throughout the text: it avoids renumbering cross-references and guarantees their accuracy.

Do not use Word's cross-referencing tool (Insert, Cross-reference), since it implies the use of automatic heading or caption numbering (see clause 5.2.3).

Use the following sequence identifiers (Insert Field Numbering Seq and type in the relevant sequence identifier):

Sequence Bookmark		Bookmark name	Description	
seq equ equ_xx		equ_xx	for equations (note 1)	
seq fig fig_xx		fig_xx	for figures (note 1)	
seq ref		ref_xx	for references	
seq tab		tab_xx	for tables (note 1)	
NOTE 1: Reset the sequence numbering to one for the first item of each annex of an ETSI deliverable by using the switch \r1 (e.g. { seq fig \r1 }).				
NOTE 2: "xx" represents the identifier for the particular object concerned, e.g. "fig_ProcessControl" or "ref_en300466". Do not use bookmarks of the form "fig_fig1". You can use underscores as separators in sequence identifiers if necessary.				

Table A.2: Sequence numberings

Thus the title of a table will read:

Table { seq tab }: Table title

Bookmark each entry in a sequence (select it and use **Insert Bookmark Add**), using a bookmark name of the form shown in table 1. You can then refer to the table, figure, reference, etc. from the text by inserting a sequence field citing the same sequence identifier and the particular bookmark required. For example, table 1 has been bookmarked "tab_Seq_Num". Thus a reference to this table from the text reads:

... see table { seq tab tab_Seq_Num } ...

Remember to refresh the fields in order to view the correct numbers by using the "Update fields" command (F9).

A.5 Supported file formats

The following document formats are currently accepted by the ETSI Secretariat:

- Word for Windows[®] 2000
- Word for Windows[®] 97
- NOTE 1: Versions prior to this are strongly discouraged.

The following file formats for embedding into a document are currently accepted by the ETSI Secretariat:

- Microsoft[®] Visio[®] 2000
- NOTE 2: Regarding the use of "stencils" or "templates", it is recommended to use those supplied with the standard version.

If additional ones are used, they should be provided to the Secretariat, together with the electronic version of the deliverable.

NOTE 3: Microsoft[®] Visio[®] shall **not** be used for SDL production.

- Micrografx Designer[®] (from 3.1 onwards) and any compatible software that is able to import/export figures made with Designer
- Microsoft[®] Word Picture (embedded application)
- Microsoft[®] Drawing (embedded application)
- Microsoft[®] Office[®] products

Annex B (normative): Text containing SDL, program code, ICS and TTCN

B.1 SDL and MSC diagrams

There are three ways to include SDL diagrams, MSC diagrams (Message Sequence Charts) or HMSC diagrams (High level MSC) as part of an ETSI deliverable.

- One is to embed SDL, MSC or HMSC diagrams in Word documents by selecting the diagram contents in the SDL/MSC tool and copy/paste into Word. Further editing as Word picture gives poor results and should be avoided.
- A second way is to include embedded postscript files produced by an SDL/MSC tool into the Word document.

In both these cases, provide SDL, MSC or HMSC diagrams in SDT binary files or as CIF files when not using SDT. Do not include SDL headers or footers.

• A third way is to provide the SDL model or MSC and HMSC diagrams as a separate file. This is recommended for large SDL models or large collection of MSC diagrams. In this case, provide CIF files, postscript or PDF files, and also if using SDT include the SDT binary files. If the SDL model uses ASN.1 data, include the ASN.1 data files, to be published with the CIF files.

NOTE: Microsoft[®] Visio[®] shall **not** be used for SDL production.

B.2 Program code

Large volumes of program code, source code or formal description language shall be placed in an electronic attachment accompanying the ETSI deliverable.

B.3 Implementation Conformance Statement (ICS) proforma tables

Use the guidance and the ICS proforma templates contained in EG 201 058 (editHelp!).

B.4 Tree and Tabular Combined Notation (TTCN)

Provide TTCN as separate file(s).

For test suite specified in TTCN version 2 (TTCN-2):

Provide both Graphical Rendition (GR) and Machine Processable (MP) files.

The following text should be used for ATSs using TTCN-2. The subdivision is recommended.

This ATS has been produced using the Tree and Tabular Combined Notation (TTCN) according to ISO/IEC 9646-3 [$\langle x \rangle$].

The ATS was developed on a separate TTCN software tool and therefore the TTCN tables are not completely referenced in the table of contents. The ATS itself contains a test suite overview part which provides additional information and references. For test suite specified in TTCN version 3 (TTCN-3) Tabular Format:

Provide both Graphical Rendition (GR) and Machine Processable (MP) files.

The following text should be used for ATSs using TTCN-3 Tabular Format. The subdivision is recommended.

This ATS has been produced using the Testing and Test Control Notation (TTCN) according to ES 201 873-2 [<x>].

The ATS was developed on a separate TTCN software tool and therefore the TTCN tables are not completely referenced in the table of contents. The ATS itself contains a test suite overview part which provides additional information and references.

For test suites specified in TTCN version 3 (TTNC-3) Core Language:

Provide only the machine processable (MP) file.

The following text should be used for ATSs using TTCN-3 Core Language. The subdivision is recommended.

This ATS has been produced using the Testing and Test Control Notation (TTCN) according to ES 201 873-2 [$\langle x \rangle$].

<x1> The TTCN Graphical form (TTCN.GR)

The TTCN.GR representation of this ATS is contained in a Portable Document FormatTM file (<any_name>.PDF contained in archive <filename>.ZIP) which accompanies the present document.

<x2> The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to this ATS is contained in an ASCII file (<any_name>.MP contained in archive <filename>.ZIP) which accompanies the present document.

NOTE: Where an ETSI Abstract Test Suite (in TTCN) is published in both .GR and .MP format these two forms shall be considered equivalent. In the event that there appears to be syntactical or semantic differences between the two then the problem shall be resolved and the erroneous format (whichever it is) shall be corrected.

Annex C (normative): Endorsement of documents from other standards organizations

C.1 General

In the case that an ETSI deliverable would become almost identical to (i.e. with or without modifications use the entirety of) a document from another standards organization, a Technical Body may decide to prepare an ETSI deliverable defining only the differences, if any, between that document (commonly called "endorsed document") and the ETSI deliverable.

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Such an ETSI deliverable, commonly called "endorsement", shall be drafted in accordance with the present document, in addition to clauses C.2 and C.3.

The preferred method of endorsement is defined in clause C.2.

Exceptionally and in justified cases only, the methods defined in clause C.3 may be used.

C.2 Title, requirements and annexes

C.2.1 Title

C.2.1.1 Without modifications

If the endorsed document is referred to without modifications, the title of the ETSI deliverable should be as close as possible to the title of the endorsed document (see example 1), while still complying with the provisions of clause 6.

EXAMPLE:

Endorsement of ITU-T Recommendation Q.1215 (1993): "Physical plane for intelligent network CS1", gives the ETSI deliverable the title:

Intelligent Network (IN); Physical plane for intelligent network Capability Set 1 (CS1)

[ITU-T Recommendation Q.1215 (1993)]

C.2.1.2 With modifications

If the endorsed document is referred to with modifications (technical and/or editorial), the title of the ETSI deliverable shall indicate that this is the case (see example 2).

EXAMPLE:

Endorsement of ITU-T Recommendation G.957 (1993): "Optical interfaces for equipments and systems relating to the synchronous digital hierarchy", gives the ETSI deliverable the title:

Transmission and Multiplexing (TM); Optical interfaces for equipments and systems relating to the Synchronous Digital Hierarchy (SDH)

[ITU-T Recommendation G.957 (1993), modified]

C.2.2 Requirements

C.2.2.1 Without modifications

This element is normative and shall be entitled "Endorsement notice".

If the endorsed document is referred to without modifications, the following text should be used:

"All elements of apply."

C.2.2.2 With modifications

If the endorsed document is referred to with modifications, the following text should be used:

"The elements of apply, with the following modifications:"

The modifications shall be presented in an order following the sequence of clauses of the endorsed document. General modifications shall precede specific modifications.

• The use of revision marks for the presentation of the modifications is recommended.

C.2.3 Annex

Designation of the serial order of an annex shall be with two letters, the first letter always being Z (i.e. ZA, ZB, ZC, etc.), in order to avoid confusion with any annexes of the endorsed document.

C.3 Reproduction of text from other standards organizations in endorsements

C.3.1 General and copyright

In exceptional and justified cases, it may be desired to reproduce all or part of an endorsed document, in which case the ETSI deliverable shall be drafted according to either clause C.3.2 or C.3.3, and shall take into full consideration the following copyright requirements, unless the owner of the endorsed document agrees to make the document available for easy download from a web site, the owner's, ETSI's or a third party site:

- A signed agreement between ETSI and the organization owning the copyright of the endorsed document shall be in place.
- The signed agreement shall permit ETSI to reproduce and make publicly available the deliverables of the other organization, either in part or in full.
- The resulting document becomes an ETSI deliverable with ETSI copyright and it may be desired by ETSI to modify the contents of the endorsed document either at the time of initial publication or later. It is implicit therefore that the signed agreement shall permit ETSI to modify the text of endorsed documents.

C.3.2 Inclusion without change

The ETSI deliverable (an endorsement without modification) shall be drafted in accordance with the present document, in particular in accordance with clauses C.2.1 and C.2.2.

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ETSI shall not modify the endorsed document in any way and **the entire unchanged PDF copy of the endorsed document** shall be attached to the ETSI document.

In this case the following text should be used:

"The entire unchanged endorsed document is contained in an Adobe Portable Document FormatTM file (<any_name>.PDF contained in archive <Shortfilename>.ZIP) which accompanies the present document."

C.3.3 Inclusion with change

The ETSI deliverable (an endorsement with modification) shall be drafted in accordance with the present document, in particular in accordance with clauses C.2.1, C.2.2 and C.2.3.

ETSI may modify the endorsed document and **the entire (modified) document** shall be included in the resulting ETSI deliverable (irrespective of whether it is all or part of the document which is being endorsed).

Annex D (normative): Safety statements

D.1 Introduction

ETSI TC Safety shall be consulted concerning statements to be included in deliverables regarding the protection of the health and the safety of the user and any other person.

There are several product safety standards already available from CENELEC that have been published in the Official Journal of the European Commission in connection with the Low Voltage Directive (LVD) 73/23/EC. Such Harmonized Standards can be used to demonstrate compliance with some or all of the essential requirements of article 3.1(a) of the Radio equipment & Telecommunications Terminal Equipment (R&TTE) Directive 1999/5/EC (see article 18).

The essential requirements for the protection of the health and the safety of the user and any other person under the R&TTE Directive include but are not necessarily limited to the safety objectives published in the LVD.

If it is desired to give the user of the deliverable some guidance on safety matters, the following text shall be used in all ETSI deliverables (either as a separate clause or as the final element of the Scope):

Requirements for safety are outside the scope of the present document. Safety standards are published by CENELEC.

NOTE 1: An example of such a CENELEC product safety standard is EN 60950.

NOTE 2: For safety categories of interfaces, see EG 201 212.

If this is done then the following shall be added to the Bibliography of the ETSI deliverable:

- CENELEC EN 60950: "Safety of information technology equipment".
- ETSI EG 201 212: "Electrical safety; Classification of interfaces for equipment to be connected to telecommunication networks". This document is also available from CENELEC as ROBT-002.

Annex E (normative): Candidate Harmonized Standards

E.1 General directions

The elements necessary for the drafting of a candidate Harmonized Standard are briefly summarized below:

- a) The candidate Harmonized Standard shall be an EN produced in accordance with the present document.
- b) The EN shall be identified as a candidate Harmonized Standard, the reference of which is intended to be published in the Official Journal of the European Communities referencing the relevant Directive. This identification shall be made in the "Foreword" at "Public Enquiry" and "Vote" stage and when the standard is published by ETSI (see clause E.2).
- c) The candidate Harmonized Standard shall have appropriate transposition periods specified. A candidate Harmonized Standard confers presumption of conformity when it has been published in the Official Journal of the European Communities and transposed by a member state. The Official Journal citation gives the date of cessation of presumption of conformity of a previous standard. This is usually taken to be the date of withdrawal (dow) supplied by the standardization body.
- d) The candidate Harmonized Standard shall include all technical specifications necessary for demonstrating presumption of conformity of the products and phenomena within its scope. Products may have more than one attribute. Candidate Harmonized Standards under all attributes may be applicable.
- e) Methods of measurement may be included in the candidate Harmonized Standard, or may be normatively referenced in the text.
- f) The candidate Harmonized Standard shall contain a normative annex identifying the technical specifications with the essential requirements of the relevant Directive (see clause E.3).
- NOTE: A Special Report (SR 001 470) containing a pro-forma for the production of candidate Harmonized Standards for all radio equipment and telecommunication terminal equipment under Directive 1999/5/EC (the R&TTE Directive) exists in <u>editHelp!</u>.

E.2 Foreword of a candidate Harmonized Standard

The Foreword of a candidate Harmonized Standard under the R&TTE Directive shall contain the following text:

The present document has been produced by ETSI in response to a mandate from the European Commission issued under Council Directive 98/34/EC (as amended) laying down a procedure for the provision of information in the field of technical standards and regulations.

The present document is intended to become a Harmonized Standard, the reference of which will be published in the Official Journal of the European Communities referencing the Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity ("the R&TTE Directive").

Technical specifications relevant to Directive 1999/5/EC are given in annex <X>.

NOTE: This is one example of such text. Text for other Directives will be adapted by the ETSI Secretariat.

E.3 Annex of a candidate Harmonized Standard

The candidate Harmonized Standard shall also contain a normative annex which presents a requirements table. The annex shall conform to the following format:

Annex <X> (normative):

Clauses of the present document relevant for compliance with the essential requirements of the R&TTE Directive

Table <X>.1: Clauses of the present document relevant for compliance with the essential requirements of the R&TTE Directive

Clause number and title	Corresponding article of the R&TTE Directive	Qualifying remarks

E.4 References in a Candidate Harmonized Standard

References in a Candidate Harmonized Standard shall always be published and specific.

E.5 The EN title in the official languages

Prior to publication in the Official Journal of the EU, the title of a harmonized standard has to be available in all of the official languages listed in an annex. Technical bodies are encouraged to make as much use as possible of their own resources to obtain these translations from the original language. In cases of difficulty, the ETSI technical officer for the TB should be informed so that assistance can be found.

The following annex is optional, and is provided as a convenient way to monitor the title translation process and to file the title translations.

<Annex x (informative): The EN title in the official languages

Language	EN title
Danish	
Dutch	
English	
Finnish	
French	
German	
Greek	
Italian	
Portuguese	
Spanish	
Swedish	

History

Document history			
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V1.3.1	April 2001	Publication	
V1.4.1	September 2001	Publication	
V1.5.1	February 2002	Publication	

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