



Addendum to common IEC/ISO tagging guidelines:

Conversion of IEC documents

This document contains conversion specifications for IEC documents in addition to those found in version 1.0 of the IEC/ISO Coding guidelines for NISO STS, or to provide a summary of specific tagging problems that are described in different places in the Coding guidelines.

Updates to this document will be made whenever a new tagging rule is agreed on between IEC and our conversion provider.

Document history

2021-09-29	v.1.0	First official version	Alisdair Menzies
2021-12-15	v.1.1	First official version - updated	Alisdair Menzies
2022-02-22	v.1.2	First official version - updated	Alisdair Menzies
2022-03-31	v.1.3	First official version- updated	Alisdair Menzies



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1 <def-list>

1.1 For keys to figures, equations, abbreviations

Requested: 2020

Valid as of: 2020

Description:

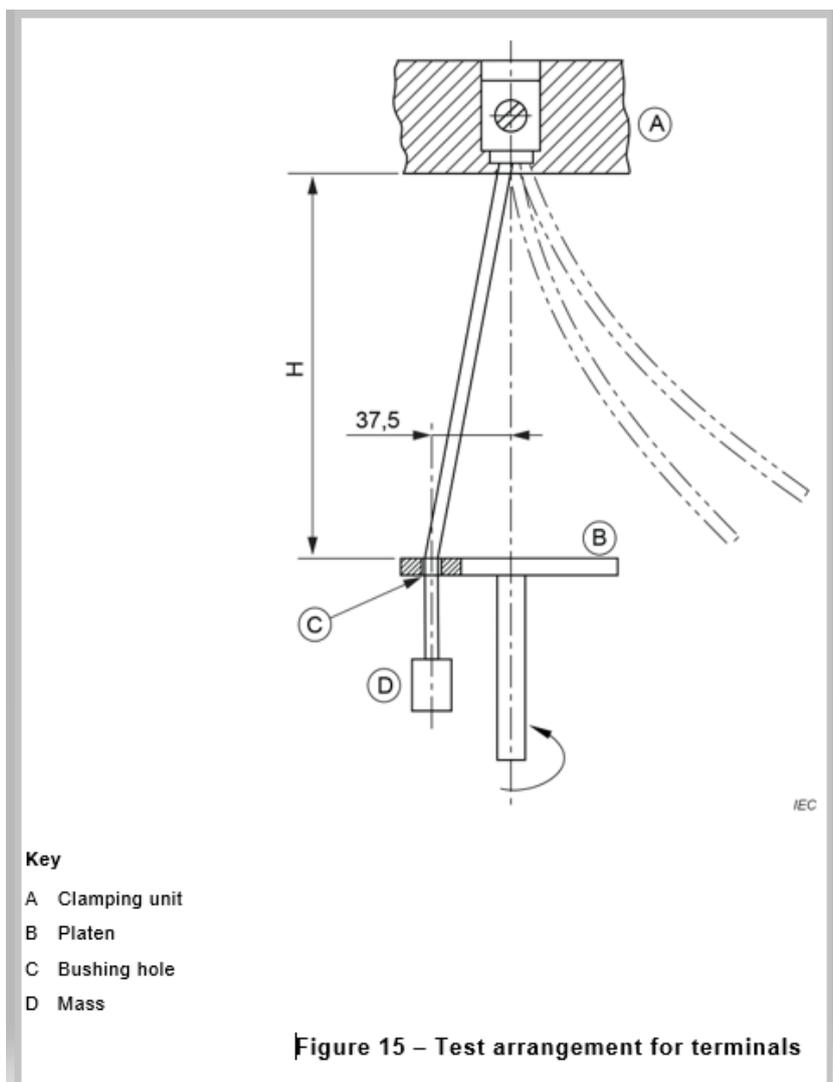
Keys to figures, equations and abbreviation lists are coded as <def-list> when they have 2 columns. While sometimes in the past the caption of a <def-list> was erroneously coded as <def-head>, it needs to be tagged as <label>.

Regular caption indicator words are “Key / Legend / where / Abbreviations”, depending on the element.

There may be other, less predictable cases (e.g. “Components”).

Please try to capture the caption correctly whenever possible (best-effort based) in case of variations.

For example: Keys to Figures:



Is coded as:

```
<fig id="fig-15">
<label>Figure&#160;15</label>
<caption>
<title>Test arrangement for terminals</title></caption>
<graphic xlink:href="asset/fig-15"/>
<p content-type="Dimension" id="p-464">Dimensions in millimetres</p>
<def-list list-content="figure">
<label>Key</label>
<def-item>
<term>A</term>
<def>
<p id="p-465">Clamping unit</p></def></def-item>
<def-item>
<term>B</term>
<def>
<p id="p-466">Platen</p></def></def-item>
<def-item>
<term>C</term>
<def>
<p id="p-467">Bushing hole</p></def></def-item>
<def-item>
<term>D</term>
<def>
<p id="p-468">Mass</p></def></def-item></def-list></fig>
```

1.2 List of symbols to be coded in <def-list>

Requested: 2021-01-26

Valid as of: 2021-02-15

Description:

In analogy to other use cases for <def-list>, please code lists of symbols (mostly inside section 3, terms & definitions) as <def-list> with *@list-content="symbol"*, with “Symbols” or whatever caption the authors use as <label>.

For example:

3.3 Symbols	
$\sigma_{R\alpha}$	Net alpha counting rate uncertainty
$\sigma_{R\beta}$	Net beta counting rate uncertainty
C_{α}	Activity concentration for alpha emitters
C_{β}	Activity concentration for beta emitters
ε_{α}	Alpha efficiency
ε_{β}	Beta efficiency

Is coded as:

```

<sec id="sec-3.3">
<label>3.3</label>
<title>Symbols</title>
<def-list list-content="symbol">
<def-item>
<term><italic>#963;</italic><sub><italic>R#945;</italic></sub></term>
<def><p id="p-29">Net alpha counting rate uncertainty</p></def>
</def-item>
<def-item>
<term><italic>#963;</italic><sub><italic>R#946;</italic></sub></term>
<def><p id="p-30">Net beta counting rate uncertainty</p></def>
</def-item>
<def-item>
<term><italic>C</italic><sub><italic>#945;</italic></sub></term>
<def><p id="p-31">Activity concentration for alpha emitters</p></def>
</def-item>
<def-item>
<term><italic>C</italic><sub><italic>#946;</italic></sub></term>
<def><p id="p-32">Activity concentration for beta emitters</p></def>
</def-item>
<def-item>
<term><italic>#949;</italic><sub><italic>#945;</italic></sub></term>
<def><p id="p-33">Alpha efficiency</p></def>
</def-item>
<def-item>
<term><italic>#949;</italic><sub><italic>#946;</italic></sub></term>
<def><p id="p-34">Beta efficiency</p></def>
</def-item></def-list>
</sec>

```

2 Using <table-wrap-foot> to contain all elements outside table body

Requested: 2020

Valid as of: 2020

Description:

Table footers, table notes, table footnotes, dimension statements are all tagged inside <table-wrap-foot>, where necessary inside child elements are (e.g. <tfn> or <table-foot>).

For example:

Table 1 – Overview of the effectiveness of the various measures on the possible errors

Communication errors	Safety measures							
	Sequence number (see 5.4.2)	Time stamp (see 5.4.3)	Time expectation (see 5.4.4)	Connection authentication (see 5.4.5)	Feedback message (see 5.4.6)	Data integrity assurance (see 5.4.7)	Redundancy with cross checking (see 5.4.8)	Different data integrity assurance systems (see 5.4.9)
Corruption (see 5.3.2)					X ^d	X	Only for serial bus ^c	
Unintended repetition (see 5.3.3)	X	X					X	
Incorrect sequence (see 5.3.4)	X	X					X	
Loss (see 5.3.5)	X				X		X	
Unacceptable delay (see 5.3.6)		X	X ^b					
Insertion (see 5.3.7)	X ^e	X ^e		X ^a	X		X	
Masquerade (see 5.3.8)				X	X ^d			X
Addressing (see 5.3.9)				X				

NOTE Table adapted from IEC 62280:2014, Table 1.

^a Only for sender identification. Detects only insertion of an invalid source.

^b Required in all cases.

^c This measure is only comparable with a high quality data assurance mechanism if a calculation can show that the residual error rate Λ reaches the values required in 5.4.9 when two messages are sent through independent transceivers.

^d Effective only if feedback message includes original data or information about the original data, and if the receiver only acts on the data after acknowledge of the feedback message.

^e Effective only if the sequence numbers or time stamps of the source entities are different.

Is coded as:

```

<table-wrap-foot>
<non-normative-note id="tno-1-1">
<label>NOTE</label>
<p id="p-162">Table adapted from <std><std-id std-id-link-type="urn" std-id-type="dated">urn:iec:std:iec:62280:2014-02::#tab-1</std-id><std-ref>IEC&#160;62280:2014, Table&#160;1</std-ref></std>.
</p></non-normative-note>
<fn id="tfn-1-1">
<label>a</label>
<p id="p-163">Only for sender identification. Detects only insertion of an invalid source.</p></fn>
<fn id="tfn-1-2">
<label>b</label>
<p id="p-164">Required in all cases.</p></fn>
<fn id="tfn-1-3">
<label>c</label>
<p id="p-165">This measure is only comparable with a high quality data assurance mechanism if a calculation can show that the residual error rate &#923; reaches the values required in <xref ref-type="sec" rid="sec-5.4.9">5.4.9</xref> when two messages are sent through independent transceivers.</p></fn>
<fn id="tfn-1-4">
<label>d</label>
<p id="p-166">Effective only if feedback message includes original data or information about the original data, and if the receiver only acts on the data after acknowledge of the feedback message.</p></fn>
<fn id="tfn-1-5">
<label>e</label>
<p id="p-167">Effective only if the sequence numbers or time stamps of the source entities are different.</p></fn></table-wrap-foot></table-wrap>

```

For example:

Table 4 – Dimensions of style JM-OP, Figure 13

Dimensions in millimetres

Coding	L1 max.	øD max.
A, B, C, D, P	65	22
X, H	65	22
F, K, L, M	70	25
S, T	70	23
Type 1 to 4	65	22

Is coded as:

```
<table-wrap-foot>
<p content-type="Dimension" id="p-77">Dimensions in millimetres</p>
</table-wrap-foot></table-wrap>
```

3 Regarding 5.6.2 in the Guidelines: notes with “warning” etc.

Requested: 2021-01-26

Valid as of: 2021-02-15

Description:

Please add the label “Attention” to this list.

Only use @content-type=“warning”.

Identify occurrences as follows: a single word “Warning / Important / Caution / Attention”, followed by another paragraph.

4 Cross-references to abbreviations

Requested: 2021-01-26

Valid as of: 2021-02-15

Description:

When a list of abbreviations is provided (usually in the Terminology section), tag all appearances of the abbreviation in the document with a <xref> of type “other”.

For example:

5.2.3 Liaison with IAEA

The IEC SC 45A standards series consistently implements and details the safety and security principles and basic aspects provided in the relevant International Atomic Energy Agency (IAEA) safety standards and in the relevant documents of the IAEA nuclear security series (NSS). These IAEA documents are introduced in 8.2 and included in Annex B.

Is coded as:

```
<sec id="sec-5.2.3">  
<label>5.2.3</label>  
<title>Liaison with <xref ref-type="other" rid="abb-iaea">IAEA</xref></title>
```

5 Landscape tables

just to confirm: please continue doing what has always been done

The instructions in B.3.1 of the guidelines say:

Tables with landscape orientation are coded with *@orientation="landscape"*

This rule needn't be applied to IEC documents.

6 Term type

Just to confirm: please continue doing what has always been done

For term types, only these values apply to IEC documents:

- a) abbreviation
- b) fullForm
- c) symbol

7 Annexes

7.1 The case mentioned in the guidelines under 4.4.2 b) shouldn't occur in IEC – please don't take it into account.

7.2 **<content-type="undefined">**

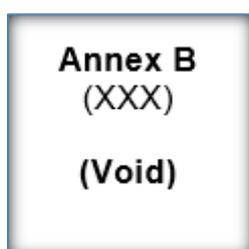
Requested: 2021-07

Valid as of: 2021-08

Description:

When there is an Annex without "informative" or "normative", but with either (xxx), or 'Void', or even both at the same time, or even with nothing at all, remove the '(xxx)' from the xml and instead add **<content-type="undefined">**.

For example:



Is coded as:

```
<app content-type="undefined" id="anx-B">
<label>Annex&#160;B</label>
<title>(Void)</title></app>
```

Another example:

Annex I – Measurement of noise and vibration emissions

Replace the existing text of Clause 1.2 with the following new text:

1.2 Noise test code (grade 2)

This clause of Part 1 is applicable except as follows:

1.2.4 Installation and mounting conditions of the power tools during noise tests

Is coded as:

```
<app content-type="undefined" id="anx-I">
<label>Annex&#160;I</label>
<title>Measurement of noise and vibration emissions</title>
<sec>
<label/>
<editing-instruction>
<p id="p-82"><italic>Replace the existing text of <xref ref-type="sec" rid="sec-I.2">
Clause&#160;I.2</xref> with the following new text:</italic></p></editing-instruction>
<sec id="sec-I.2">
<label>I.2</label>
<title>Noise test code (grade 2)</title>
<p id="p-83">This clause of Part&#160;1 is applicable except as follows:</p></sec></sec>
<sec id="sec-I.2.4">
<label>I.2.4</label>
<title>Installation and mounting conditions of the power tools during noise tests</title>
```

7.3 Track changes for “(normative)” or “(informative)”

Requested: March 2022

Valid as of: April 2022

Description:

In <app id>, use <p> with <styled-content> under <label> when there are track changes in the property “(normative)” or “(informative)”.

For example:

Annex ~~B~~ A
(informative normative)



Is coded as:

```
<app id="sec-A">
<label>Annex<styled-content specific-use="delete"> B</styled-content><styled-content
specific-use="insert"> A</styled-content></label>
<p><styled-content specific-use="delete">informative</styled-content>
<styled-content specific-use="insert">normative</styled-content></p>
```

7.4 <content-type> in annexes

Requested: February 2022

Valid as of: April 2022

Description:

In <app id>, use <content-type=normative"> and <content-type="informative"> instead of <content-type="norm-annex"> and <content-type="inform-annex">.

8 TBX

8.1 Tbx elements

Requested: 2021-01-26

Valid as of: 2021-02-01

Description:

Ideally, we wouldn't use elements from NISO STS inside tbx elements – trying to keep TBX free from non-tbx structures (to facilitate term exchange). On the other hand, lists and coding standards inside tbx:source will require the use of NISO STS elements.

For now, we'll continue to tag things inside TBX as it's always been done, including NISO STS elements. At a later point, this decision may be revised.

8.2 <tbx:see>

Requested: 2022-02

Valid as of: 2022-02

Description:

In TBX, use <tbx:see> for references to other clauses, annexes, tables, figures etc. in the document.

Always add <xref> inside <tbx:see>.

For example:

3.23

reset condition

condition when all internal states (of moving parts and/or integrators, etc.) and output circuits of a measuring relay or protection equipment are either fully reset or at a specified condition in relation to the operate condition

SEE: Figure 1.

[SOURCE: IEC 60050-447:2020, 447-02-02, modified – The figure has been removed and reference to Figure 1 has been added.]

Is coded as:

```
<term-sec id="con-3.23">
<label>3.23</label>
<tbx:termEntry id="te-3.23">
<tbx:langSet xml:lang="en">
<tbx:definition>condition when all internal states (of moving parts
and/or integrators, etc.) and output circuits of a measuring relay
or protection equipment are either fully reset or at a specified
condition in relation to the operate condition </tbx:definition>
<tbx:see><xref ref-type="fig" rid="fig-1">SEE: Figure&#160;1</xref>.</tbx:see>
<tbx:source><std><std-id std-id-link-type="urn" std-id-type="dated">urn:iec:
std:iec:60050-447:2020-05::#con-447-02-02</std-id>
<std-ref>IEC&#160;60050&#8211;447:2020, 447-02-02</std-ref>
</std>, modified &#8211; The figure has been removed and reference
to <xref ref-type="fig" rid="fig-1">Figure&#160;1</xref> has been added.</tbx:source>
<tbx:tig>
<tbx:term id="ter-reset_condition">reset condition</tbx:term>
<tbx:partOfSpeech value="noun"/>
<tbx:normativeAuthorization value="preferredTerm"/>
<tbx:termType value="fullForm"/></tbx:tig></tbx:langSet></tbx:termEntry></term-sec>
```

Another example:

3.18

start time

pick-up time

duration between the instant a specified change is made in the value(s) of the input energizing quantity(ies) that will cause the measuring relay or protection equipment in initial condition or reset condition to start (pick up) and the instant it starts (picks up)

SEE: Figure 1.

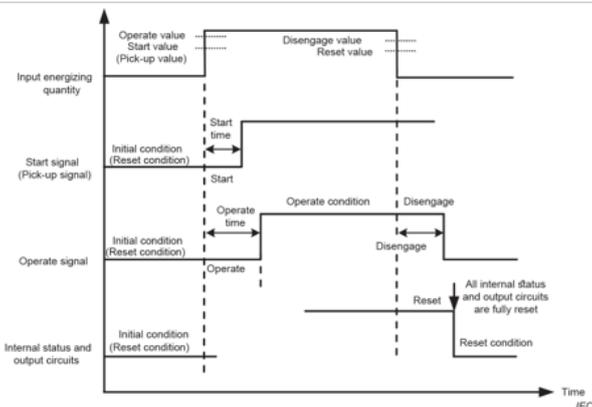


Figure 1 – Explanatory diagram for start time, operate time and disengage time

[SOURCE: IEC 60050-447:2020, 447-05-11, modified – The figures have been removed and replaced by Figure 1, the Note to entry has been deleted.]

Is coded as:

```

<term-sec id="con-3.18">
<label>3.18</label>
<tbx:termEntry id="te-3.18">
<tbx:langSet xml:lang="en">
<tbx:definition>duration between the instant a specified change is made
in the value(s) of the input energizing quantity(ies) that will cause
the measuring relay or protection equipment in initial condition or
reset condition to start (pick up) and the instant it starts (picks up)</tbx:definition>
<tbx:see><xref ref-type="fig" rid="fig-1">SEE: Figure&#160;1</xref>.
<fig id="fig-1">
<label>Figure&#160;1</label>
<caption>
<title>Explanatory diagram for start time, operate time and disengage time</title></caption>
<graphic xlink:href="asset/fig-1"/></fig>
</tbx:see>
<tbx:source><std><std-id std-id-link-type="urn" std-id-type="dated">
urn:iec:std:iec:60050-447:2020-05::#con-447-05-11</std-id>
<std-ref>IEC&#160;60050&#8211;447:2020, 447-05-11</std-ref>
</std>, modified &#8211; The figures have been removed and replaced by
<xref ref-type="fig" rid="fig-1">Figure&#160;1</xref>, the Note to entry has been deleted.</tbx:source>
<tbx:tig>
<tbx:term id="ter-start_time">start time</tbx:term>
<tbx:partOfSpeech value="noun"/>
<tbx:normativeAuthorization value="preferredTerm"/>
<tbx:termType value="fullForm"/></tbx:tig>
<tbx:tig>
<tbx:term id="ter-pick-up_time">pick-up time</tbx:term>
<tbx:partOfSpeech value="noun"/>
<tbx:normativeAuthorization value="admittedTerm"/>
<tbx:termType value="fullForm"/></tbx:tig></tbx:langSet></tbx:termEntry></term-sec>

```

8.3 Id for <tbx:example>

Requested: 2021-07

Valid as of: 2021-07

Description:

Tbx:example shall have an ID in the same way as tbx:note.

For example:

3.1.23
device
data storage peripheral

EXAMPLE - A disk drive is an example of a device.

Note 1 to entry: See 3.1.9 and 3.1.11.

Is coded as:

```
<term-sec id="con-3.1.23">
<label>3.1.23</label>
<tbx:termEntry id="te-3.1.23">
<tbx:langSet xml:lang="en">
<tbx:definition>data storage peripheral</tbx:definition>
<tbx:example id="ete-3.1.23-1">- A disk drive is an example of a device.</tbx:example>
<tbx:note id="nte-3.1.23-1">See <xref ref-type="other" rid="con-3.1.9">3.1.9</xref>
and <xref ref-type="other" rid="con-3.1.11">3.1.11</xref>.</tbx:note>
<tbx:tig>
<tbx:term id="ter-device">device</tbx:term>
<tbx:partOfSpeech value="noun"/>
<tbx:normativeAuthorization value="preferredTerm"/>
<tbx:termType value="fullForm"/></tbx:tig></tbx:langSet></tbx:termEntry></term-sec>
```

8.4 Notes about id for <tbx:note> and <non-normative-note> and about <tbx:example> and <non-normative-example>

- 1) Id mark-up for <tbx:note> and <non-normative-note> are different:
an id for <tbx:note> is tagged as "nte" and an id for <non-normative-note> is tagged as "not".
- 2) Id mark-up for <tbx:example> and <non-normative-example> are different:
an id for <tbx:example> is tagged as "ete" and an id for <non-normative-example> is tagged as "exa".

9 Boxed text

Just to confirm: only make the change described in 5.6.2 in the Guidelines. Ignore the list of "ideal items to be used in block-text" (5.11).

10 Tagging inside <sc>

Requested: 2021-01-26

Valid as of: 2021-02-01

Description:

In the Guidelines, we say that everything inside <sc> should be written in lowercase. This will be corrected in a future version of the guidelines. For the moment, please use the case which exists in the source.

Correct:

<sc>X-ray</sc>

Incorrect:

X-<sc>ray</sc>

11 MathML for more than one formula grouped together

Requested: end 2020

Valid as of: end 2020

Description:

In case we have multiple formulae grouped into one (under one label), please tag as one single math-ml with the different formulae separated by `<line-break>` or `<mml:mtr>` inside `<disp-formula>`

If there are units such as "...in dB" that apply to all the formulae, this is to be coded at the end of the last formula, right before `</disp-formula>`.

For example:

cispr16-1-6(ed1.0)en

$$\begin{array}{l}
 A_1(2,1) = F_a(1) + F_a(2) + K(2,1) \\
 A_1(3,1) = F_a(1) + F_a(3) + K(3,1) \quad \text{in dB} \\
 A_1(3,2) = F_a(2) + F_a(3) + K(3,2)
 \end{array} \quad (30)$$

Is coded as:

```

<disp-formula id="for-30">
<label>(30)</label>
<mml:math id="mml-m50">
<mml:mtable columnalign="left">
<mml:mtr>
<mml:mttd>
...</mml:mttd></mml:mtr>
<mml:mtr>
<mml:mttd>
...</mml:mttd></mml:mtr>
<mml:mtr>
...
<mml:mtext>&#160;in&#160;dB</mml:mtext></mml:mttd></mml:mtr></mml:mtable></mml:math>
</disp-formula>

```

12 Software supplements

Requested: end 2020

Valid as of: end 2020

Description:

Some of our publications have supplementary files which are used provided by the users' convenience: The word is zipped together with the supplementary file. This file is to be placed in the assets folder and a x-link should be created to access them.

Here is an example with fictitious numbers:

In the Foreword:

9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard ISO/IEC 14543-5-101 was prepared by subcommittee 25: Interconnection of information technology equipment, of ISO/IEC joint technical committee 1: Information technology.

The list of all currently available parts of the ISO/IEC 14543 series, under the general title *Information technology – Home electronic system (HEC) architecture*, can be found on the IEC website and ISO website.

This publication contains attached files in the form of xml. These files are intended to be used as a complement and do not form an integral part of the publication.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
JTC1-SC25/2869/FDIS	JTC1-SC25/2885/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

In the xml:

```
<p id="p-13">The list of all currently available parts of the ISO/IEC 14543 series, under the general tit
<p id="p-14" xlink:href="asset/software-supplement.xlsx">This publication contains attached files in the
<p id="p-15">The text of this standard is based on the following documents:</p>
```

In the publication itself where the software supplement is placed, a xlink should also be created:

Clause 201.10 – Protection against unwanted and excessive radiation HAZARDS

The calculation of the various photobiological exposures requires integrating the measured spectral irradiance over appropriate wavelength ranges, sometimes with a spectral weighting function specific to the particular type of photobiological hazard. The embedded Microsoft Excel² spreadsheet is provided as an optional tool to help organize data collection and calculate photobiological exposures based on the formulas in this document.



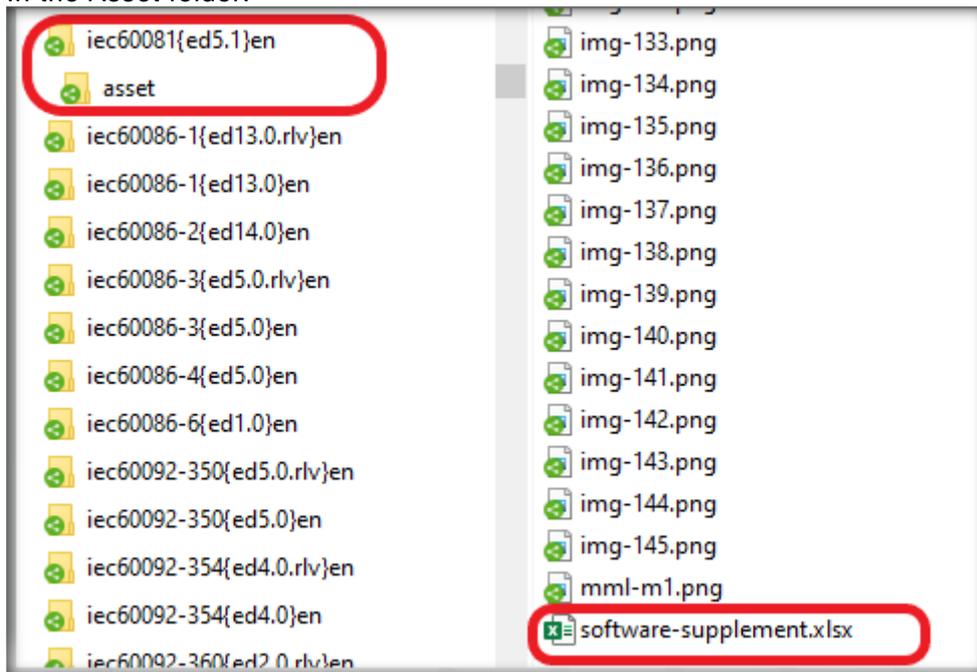
Photobiological Exposure Calculator

Instructions for using this calculator are available on the first tab in the workbook labelled "Instructions". It is essential to validate any calculations done to determine photobiological exposures, as the accuracy of these calculations remains the responsibility of the MANUFACTURER of the ME EQUIPMENT. To assist in this validation, the spreadsheet contains a tab with an example of raw data and the corresponding computed photobiological exposures.

In the XML:

```
<p id="p-511">The calculation of the various photobiological exposures requires integrating the measured spectral irradiance over appropriate wavelength ranges, some
<p id="p-511a"><inline-supplementary-material xlink:href="asset/iec60601-2-41[ed3.0]en.xlsx">Photobiological Exposure Calculator</inline-supplementary-material></p>
<p id="p-512">instructions for using this calculator are available on the first tab in the workbook labelled "instructions". it is essential to validate an
<p id="p-513"><bold><xref ref-type="sec" rid="sec-201.10.101.2.3">Subclause 4#160;201.10.101.2.3</xref> 4#8211; Blue light hazard weighted radiance</bold></p>
```

In the Asset folder:



13 Editorial instructions

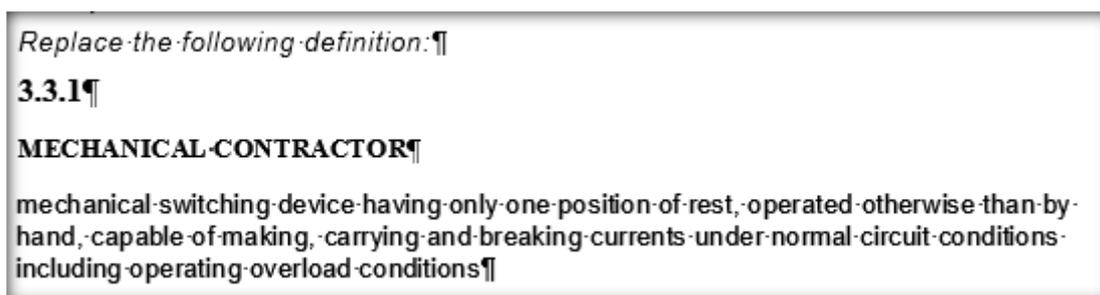
Requested: 2021-05

Valid as of: 2021-05

Description:

13.1 When there is an editorial instruction before a terminology entry, place it in <editing-instruction> at the beginning of <term-sec> .

For example:



Is coded as:

```
<term-sec id="con-3.3.1">
<editing-instruction>
<p id="p-39"><i>Replace the following definition:</i></p></editing-instruction>
<label>3.3.1</label>
<tbx:termEntry id="te-3.3.1">
<tbx:langSet xml:lang="en">
<tbx:definition>mechanical switching device having only one position of rest,
operated otherwise than by hand, capable of making, carrying and breaking
currents under normal circuit conditions including operating overload conditions</tbx:definition>
```

13.2

a) When there is an editorial instruction inside a terminology entry, code it as `<p>` inside `<term-display>`:

For example:

```
3.4
* COMMAND VARIABLE
Add the following new note:

NOTE A COMMAND VARIABLE may be a range or a function (e.g. clinical protocol).
```

Is coded as:

```
<term-sec id="con-3.4">
<label>3.4</label>
<term-display>
<term><b><sc>* command variable</sc></b></term>
<p><i>Add the following new note:</i></p>
<non-normative-note id="nte-3.4-1">
<label>NOTE</label>
<p>A <sc>command variable</sc> may be a range or a function (e.g. clinical protocol).</p>
</non-normative-note>
</term-display>
</term-sec>
```

b) When there is an editorial instruction inside a terminological entry with no `<term>`, code it as follows:

For example:

```
3.1 Definitions relating to physical characteristics
3.1.4 Addition:
Note 101 to entry: The rated power input is the sum of the power inputs of all the individual elements in the appliance that can be on at one time; where there are several such combinations possible, that giving the highest power input is used in determining the rated power input.
```

Is coded as:

```
<term-sec id="con-3.1.4">
<label>3.1.4</label>
<editing-instruction>
<p id="p-84"><italic>Addition:</italic></p></editing-instruction>
<tbx:termEntry id="te-3.1.4">
<tbx:langSet xml:lang="en">
<tbx:definition/>
<tbx:note id="nte-3.1.4-1">The <bold>rated power input</bold> is the sum of
the power inputs of all the individual elements in the appliance that can
be on at one time; where there are several such combinations possible,
that giving the highest power input is used in determining the <bold>rated power input</bold>.</tbx:note>
<tbx:tig>
<tbx:term/>
<tbx:partOfSpeech value="noun"/>
<tbx:normativeAuthorization value="preferredTerm"/>
<tbx:termType value="fullForm"/></tbx:tig></tbx:langSet></tbx:termEntry></term-sec>
```

13.3 When there is an editorial instruction placed inside a section, code it as <editing-instruction> inside the relevant section.

For example:

5.11.2 RVC event detection

Replace, in the first dash (Class A), in the fifth paragraph, the third bullet point with the following:

- If every one of the previous 100/120 $U_{rms(1/2)}$ values, including the new value, is within the RVC threshold (including the hysteresis, if applied) of the newly calculated arithmetic mean, then the 'voltage-is-steady-state' logic signal for that channel is set to true; otherwise, it is set to false.

Is coded as:

```
<sec id="sec-5.11.2">
<label>5.11.2</label>
<title>RVC event detection</title>
<editing-instruction>
<p id="p-14"><italic>Replace, in the first dash (Class A), in the fifth paragraph,
the third bullet point with the following:</italic></p></editing-instruction>
<list id="list-5.11.2-L1" list-type="bullet">
<list-item id="lis-5.11.2-L1-1">
<label>&#8226;</label>
<p id="p-15">If every one of the previous 100/120 <italic>U</italic><sub>rms(1/2)</sub> values,
including the new value, is within the RVC threshold (including the hysteresis, if applied)
of the newly calculated arithmetic mean, then the &#8216;voltage-is-steady-state&#8217;
logic signal for that channel is set to true; otherwise, it is set to false.</p></list-item></list>
```

13.4 When there is an editorial instruction placed anywhere in the text before a section, place it in a new section with no label and no title nesting the following relevant sections in it.

For example:

Add, after the existing Clause 33, the following new clauses:

34 Method E29: Straight midspan access to optical elements

34.1 Object

This test is to evaluate if a core optical element can be effectively removed from a cable by midspan access. A substantially straight cable being tested is subjected to two types of controlled minor bends for the test. This test is intended to evaluate a cable type which is designed for easy withdrawal of cable elements, midspan, for external connection, as in MDU retractable cable.

Is coded as:

```
<sec>
<editing-instruction>
<p id="p-69"><italic>Add, after the existing Clause&#160;33, the following new clauses:</italic></p></editing-instruction>
<sec id="sec-34">
<label>34</label>
<title>Method E29: Straight midspan access to optical elements</title>
<sec id="sec-34.1">
<label>34.1</label>
```

13.5 Similarly, when there is an editorial instruction placed before a new terminology entry stating this new entry (or these multiple new entries) has to be added, place it in a new section then nest the relevant sections in it.

For example:

Add the following new terms:

3.27
light source
 surface or object emitting light

[SOURCE: IEC 60050-845:2020, 845-27-001, modified – the existing notes have been removed]

3.28
instructions for use
 information that is provided by manufacturers or distributors for users of the product

3.29
external power supply
EPS
 equipment which converts power supplied by the mains into power at a different voltage, which has its own physical enclosure, and which is intended for use with separate equipment that constitutes the load

Is coded as:

```

<sec>
<editing-instruction>
<p id="p-24"><italic>Add the following new terms:</italic></p></editing-instruction>
<term-sec id="con-3.27">
<label>3.27</label>
<tbx:termEntry id="te-3.27">
<tbx:langSet xml:lang="en">
<tbx:definition>surface or object emitting light</tbx:definition>
<tbx:source>SOURCE: <std><std-id std-id-link-type="urn" std-id-type="dated">urn:iec:s
<tbx:tig>
<tbx:term id="ter-light_source">light source</tbx:term>
<tbx:partOfSpeech value="noun"/>
<tbx:normativeAuthorization value="preferredTerm"/>
<tbx:termType value="fullForm"/></tbx:tig></tbx:langSet></tbx:termEntry></term-sec>
<term-sec id="con-3.28">
<label>3.28</label>
<tbx:termEntry id="te-3.28">

```

13.6 When editorial instruction is placed beside the heading number, it should be kept in that particular section.

For example:

15.5 *Additional subclauses:*

15.5.101 The **travel time** shall be measured at 0,85 V_R .

15.5.102 The **travel time** and the response time shall be measured with the maximum rated mechanical load declared by the manufacturer and in the most unfavourable mounting position declared by the manufacturer.

Is coded as:

```

<sec id="sec-15.5">
<label>15.5</label>
<label/>
<editing-instruction>
<p id="p-134"><italic>Additional subclauses:</italic></p></editing-instruction>
<sec id="sec-15.5.101">
<label>15.5.101</label>
<p id="p-135">The <xref ref-type="other" rid="con-2.3.103"><b>travel time</b></xref> shall be measured at 0,85 <italic>V</italic><sub>R</sub>.</p></sec>
<sec id="sec-15.5.102">
<label>15.5.102</label>
<p id="p-136">The <xref ref-type="other" rid="con-2.3.103"><b>travel time</b></xref> and the response time shall be measured with the maximum rated mechanical load declared by the manufacturer and in the most unfavourable mounting position declared by the manufacturer.</p></sec></sec>

```

Html preview:

15 Manufacturing deviation and drift

This clause of Part 1 is applicable except as follows:

15.5

Additional subclauses:

15.5.101

The **travel time** shall be measured at 0,85 V_R .

15.5.102

The **travel time** and the response time shall be measured with the maximum rated mechanical load declared by the manufacturer and in the most unfavourable mounting position declared by the manufacturer.

14 URN Model

Requested: 2021-04

Valid as of: 2021-04

Description:

14.1 URN using “x” (reference to an entire series)

Whenever there is a urn with a reference to an entire series using “x”, tag as per text. The text in blue below transcribes the correct urn.

<p>[L] urn:iec:std:iec:60794-1-1xx::ser:: [L]</p> <p>New IEC 60794-1-1xx series number</p>	<p>urn:iec:std:iec:61850-7-x::ser:: "ion" (</p> <p>IEC 61850-7-x series use tables for the defi</p>
<p>urn:iec:std:iec:60794-1-2xx::ser::</p> <p>Table A.2 – IEC 60794-1-2xx series</p>	<p>The answers to these questions will de</p> <p>urn:iec:std:iec:62321-3-x::ser::</p> <p>IEC 62321-3-X). Depending on the re</p>

14.2 Namespaces: do not convert to urns

Requested: 2021-12

Valid as of: 2021-12

Description:

TC 57 is using namespaces to track information. The publication number is often followed by a date and a capital letter such as A or B. (iec61850 series).

Table 3 – Attributes of IEC 61850-7-420:2019A namespace

Attribute	Content
Namespace nameplate	
Namespace Identifier	IEC 61850-7-420
Version	2019
Revision	A
Release	4
Full Namespace Name	IEC 61850-7-420:2019A
Full Code Component Name	IEC_61850-7-420.NSD.2019A.Full
Light Code Component Name	IEC_61850-7-420.NSD.2019A.Light
Namespace Type	domain
Namespace dependencies	
includes	IEC 61850-7-4:2007B version:2007 revision:B

Such dates must not be interpreted as publication dates and should not be converted to urns.

15 Commented Version (CMV) of the Official Standard

15.1 Coding of CMVs

Requested: 2021-05

Valid as of: 2021-05

Description:

At the end of the document, a section should be created called: “List of comments”.

This <sec> should be tagged as <sec-type="comment">.

Each <list-item> should be given an id.

For example:

<p>List of comments</p> <ol style="list-style-type: none"> 1 Editorial clarification. 2 This new paragraph highlights that the surface structure of the material has also a significant influence on the results.
--

Is coded as:

```

<sec sec-type="comment" id="sec-comment">
<title>List of comments</title>
<list>
<list-item id="comment-1">
<label>1</label>
<p id="p-250">Editorial clarification.</p></list-item>
<list-item id="comment-2">
<label>2</label>
<p id="p-251">This new paragraph highlights that the surface structure of the material
```



Each <list-item> should be linked to the publication with a <x-ref>.

Do not use “<styled-content> for the numbering.

For example:

1 Scope

This document specifies the method of test for the determination of the proof and comparative tracking indices of solid insulating materials on pieces taken from parts of equipment and on plaques of material using alternating voltage.

This document provides [a procedure](#) **1** for the determination of erosion when required.

NOTE 1 The proof tracking index is used as an acceptance criterion as well as a means for the quality control of materials and fabricated parts. The comparative tracking index is mainly used for the basic characterization and comparison of the properties of materials.]

Is coded as:

```
<xref ref-type="list" rid="comment-1"><bold>1</bold></xref>
```

15.2 Comment in Publication Titles

Requested: March 2022

Valid as of: April 2022

Description:

In a CMV, when there is a comment number beside a publication title referring to the list of comments, the title should be placed in <p> right under <title>FOREWORD</title>.

When there are track changes in the title, <styled-content> should be used (see **item 24**).

For example:

ROTATING ELECTRICAL MACHINES –

Part 18-32: Functional evaluation of insulation systems [\(Type II\)](#) –
~~Test~~ [Electrical endurance qualification](#) procedures for form-wound
windings – ~~Evaluation by electrical endurance~~ **1**

Is coded as:

```
<sec id="sec-foreword" sec-type="foreword">
<title>FOREWORD</title>
<p>ROTATING ELECTRICAL MACHINES - Part 18-32: Functional evaluation of insulation systems
<styled-content specific-use="insert">(Type II)</styled-content> - <styled-content specific-use="delete">Test
</styled-content><styled-content specific-use="insert">Electrical endurance qualification</styled-content> procedures for
form-wound windings <styled-content specific-use="delete">- Evaluation by electrical endurance </styled-content>
<xref ref-type="list" rid="comment-1"><bold>1</bold></xref></p>
```

16 Data sheets:

Requested: 2021-04

Valid as of: 2021-04

Description:

Data sheets should no longer be tagged as <graphic> followed by <long-desc>, instead they should be tagged as <array>.

For example:

6.6 Blank detail specification pro forma for MQ4 series circular connectors						
Subclause 6.6 contains the complete BDS.						
(1)				Page 1 of		
(3) ELECTRONIC COMPONENT OF ASSESSED QUALITY IN ACCORDANCE WITH: GENERIC SPECIFICATION: IEC 63138-1 SECTIONAL SPECIFICATION: IEC 63138-2				(4) Issue		
(5) Detail specification for radio-frequency coaxial connector of assessed quality				Type MQ4		
Style			Special features and markings			
Method of cable/wire+ attachment			Centre conductor – solder/crimp+ Outer conductor – solder/clamp/crimp+ +Delete as appropriate			
(6) Assessment level		Characteristic impedance ...Ω		Climatic category ...I.../...		
(7) Outline and maximum dimensions			Panel piercing and mounting details			
(8) Variants						
Variant no.	Description of variant	IEC 63138-2				
01						

is coded as:

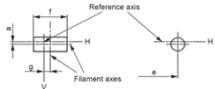
```

<array id="tab-informal-6.6-6">
<table frame="box" rules="all">
<colgroup>
<col align="left" valign="top" width="14.05%"/>
<col align="left" valign="top" width="17.45%"/>
<col align="left" valign="top" width="7.92%"/>
<col align="left" valign="top" width="8.24%"/>
<col align="left" valign="top" width="12.6%"/>
<col align="left" valign="top" width="2.26%"/>
<col align="left" valign="top" width="1.62%"/>
<col align="left" valign="top" width="16.48%"/>
<col align="left" valign="top" width="19.39%"/></colgroup>
<tbody>
<tr>
<td colspan="7">(1)</td>
<td colspan="4">
<p id="p-148">Page 1 of</p>
<p id="p-149">(2)</p></td></tr>
<tr>
<td colspan="7">
<p id="p-150">(3) ELECTRONIC COMPONENT OF ASSESSED</p>
<p id="p-151">QUALITY IN ACCORDANCE WITH:</p>
<p id="p-152">GENERIC SPECIFICATION: <std><std-id std-id-link-type="urn" std-id-type="undat</p>
<p id="p-153">SECTIONAL SPECIFICATION: <std><std-id std-id-link-type="urn" std-id-type="und</p>
<td colspan="4">(4) Issue</td></tr>
<tr>

```

In cases where there are footnotes in tables placed inside datasheets or any other elements which cannot be coded in a array, <table-wrap> is accepted.

<table-wrap> will allow footnotes to be cross referenced to <table-wrap-foot>.

ROAD VEHICLE FILAMENT LAMP DATA SHEET CATEGORY: H5 CAP: PY43t		Page 2/2	
Table 2 – Filament lamps characteristics and dimensions			
Characteristics	Values		Tolerances and limiting values
	Production lamps		
Nominal voltage	12 V	12 V	
Rated wattage [W]	-	58 max. ¹⁾	
Rated luminous flux [lm]	1 210	±15 %	
Dimensions [mm]	44,50	±0,25	
	-	0,5 max. ²⁾	
	24,50	±19 ²⁾	
 <p>Figure 2 – Positions of filament</p>			
Table 3 – Filament dimensions Dimensions in millimetres			
Type	a	g	f
12 V	0 + 0,35 ⁴⁾	0 + 0,35 ⁴⁾	6,0 max.
¹⁾ Calculated values at 4,39 A max. ²⁾ Under consideration. ³⁾ Reference lag rotation with respect to filament (degrees). ⁴⁾ Under consideration.			
60809:IEC:2305-2			

17 COR Inc Files

Requested: 2021-05

Valid as of: 2021-05

Description:

When a corrigendum has to be included in our publications, the changes to apply in the xml are highlighted in yellow in the word document.

For example, simple change:

NOTE 4 The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations may need a transitional period following publication of a new, amended or revised IEC publication in which to make products in accordance with the new requirements and to equip themselves for conducting new or revised tests.

It is the recommendation of the committee that the content of this publication be adopted for implementation nationally not earlier than 12 months or later than 36 months from the date of publication.

The contents of the corrigenda of September 2019 and August 2021 have been included in this copy.



Is coded as:

```
<p id="p-42">The contents of the corrigenda of September 2019 and August 2021 have been included in this copy.</p>
```

When the changes are to be applied in RLVs, CSVs or Amendments, follow the same guideline: simply make the changes.

If the highlighted changes appear within pre-existing track changes:

Ensure that the changes remain within the pre-existing <styled-content>. Do not add a further level of track changes.

For example:

6.2 Marking

Subclause 5.2 of IEC 60947-1:2007, IEC 60947-1:2007/AMD1:2010 applies to contractors, starters and overload relays with the following additions.

Data under items d) to ab) in 6.1.2 shall be included on the nameplate or on the equipment or in the manufacturer's published literature.

Data under items c) in 6.1.1, e), n) (if the degree of protection is different than IP00) and v2) in 6.1.2 shall be marked on the equipment; time-current characteristics (or range of characteristics) may be provided in the manufacturer's published literature.

Is coded as:

```
n) <styled-content specific-use="insert"> (if the degree of protection is different than IP00) and v2)</styled-content>  
in <xref ref-type="sec" rid="sec-6.1.2">6.1.2</xref>
```

18 <code> Tagging

Requested: 2021-08

Valid as of: 2021-08

Description:

Technical content such as programming language code, pseudo-code, schemas and DTDs or markup fragments should be tagged as <code>. Whitespace will be preserved within <code>.

There should be no <styled-content> in <code>.

For example:

Packet age may be calculated as

```

If ((current ASN && 0xFFFF) < sequence number)
    Packet age = ((current ASN && 0xFFFF) - sequence number) + 63356
Else
    Packet age = (current ASN && 0xFFFF) - sequence number
End If

```

NOTE If the destination address in the received DLPDU is broadcast then the Graph_ID in that NPDU holds the Superframe_ID to identify the corresponding broadcast links.

Is coded as:

```

<p id="p-1200">Packet age may be calculated as</p>
<code>
    If ((current ASN && 0xFFFF) < sequence number)
        Packet age =&#x000A0;((current ASN && 0xFFFF) &#x02013; sequence number) &#x0002B; 63356)
    Else
        Packet age =&#x000A0;(current ASN && 0xFFFF) &#x02013; sequence number
    End If
</code>
<non-normative-note id="not-6.6.6.3.4-1">
<label>NOTE</label>
<p id="p-1201">If the destination address in the received DLPDU is broadcast then the Graph_ID
in that NPDU holds the Superframe_ID to identify the corresponding broadcast links.</p></non-normative-note>

```

19 <ref-list> in Normative References

Requested: 2021-09

Valid as of: 2021-09

Description:

<ref-list> should be removed from the Normative References' section when there are none.

For example:

2 Normative references

There are no normative references in this document.

Is coded as:

```

<sec id="sec-2" sec-type="norm-refs">
<label>2</label>
<title>Normative references</title>
<p id="p-44">There are no normative references in this document.</p>
</sec>

```

20 Colours in Tables

Requested: 2021-09

Valid as of: 2021-09

As of September 2021, IEC Editors have been instructed to remove any non-significant colour from tables. As a consequence, any colour which remains in the tables of documents for conversion can be deemed significant and this needs to be reflected in the XML.

For example, a table like this one needs to reflect the colours of the text and /or shading in the xml:

	Mandatory – Information categories											Availability = 1 – unavailability/ (availability + unavailability)		
	Full performance	Partial performance	Service set points	Out of environ. spec.	Requested shutdown	Out of electrical spec.	Scheduled maintenance	Planned corrective action	Forced outage	Suspended	Force majeure	Information unavailable	Operational availability	Technical availability
MEANING OF COLOURS: GREEN = available RED = unavailable GREY = excluded from period hours														
Operational availability	GREEN	GREEN	GREEN	RED	RED	RED	RED	RED	RED	RED	RED	GREY	X	
Technical availability	GREEN	GREEN	GREEN	GREEN	GREEN	GREEN	GREY	RED	RED	GREY	GREY	GREY		X

21 Specifications of images in our Standards

The IEC images resolution is produced at true 300 ppi from images extracted from pdf files.

22 Use of <disp-formula> or <inline-formula>, symbols for variable quantities

Requested: February 2022

Valid as of: April 2022

22.1 Case of a Single Symbol

When there is a single symbol for a variable quantity in the text, it will be visible in the source as Times New Roman italics. It should not be placed in <disp-formula> or <inline-formula> but captured as displayed in the text in Times New Roman italics as specified in 7.1 of the Common Coding Guidelines.

22.2 All other mathematical formulae

Any other mathematical formulae, including mathematical operators expressing a relationship such as, for example: =, >, <, ≥, ≤, should be coded as <disp-formula> or <inline-formula>.

For example:

$$\alpha_{\max}^0 = \alpha_{\max}(r_{nom})$$

Is coded as:

```

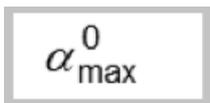
<disp-formula id="for-informal-4.5.7.5.1-1">
<mml:math id="mml-m1">
<mml:mrow>
<mml:msubsup>
<mml:mi>&#945;</mml:mi>
<mml:mrow>
<mml:mi>max</mml:mi></mml:mrow>
<mml:mn>0</mml:mn></mml:msubsup>
<mml:mo>=</mml:mo>
<mml:msub>
<mml:mi>&#945;</mml:mi>
<mml:mrow>
<mml:mi>max</mml:mi></mml:mrow></mml:msub>
<mml:mo stretchy="false">(</mml:mo>
<mml:msub>
<mml:mi>r</mml:mi>
<mml:mrow>
<mml:mi>n</mml:mi>
<mml:mi>o</mml:mi>
<mml:mi>m</mml:mi></mml:mrow></mml:msub>
<mml:mo stretchy="false">)</mml:mo></mml:mrow></mml:math></disp-formula>

```

22.3 Exceptions

Elements which can't be captured using normal text can be captured as <disp-formula> or <inline-formula> as needed.

For example:



Is coded as:

```

<disp-formula id="for-informal-4.5.7.5.1-1">
<mml:math id="mml-m1">
<mml:mrow>
<mml:msubsup>
<mml:mi>&#945;</mml:mi>
<mml:mrow>
<mml:mi>max</mml:mi></mml:mrow>
<mml:mn>0</mml:mn></mml:msubsup></mml:mrow></mml:math></disp-formula>

```

Please note, as an example, that a text such as this should not be coded as <disp-formula>.

It should be coded as <p>.

Control Area Net Interchange = SUM (control area flow into the area on each tie)

23 Equations with footnotes

Requested: March 2022

Valid as of: April 2022

When there is a mathematical equation with a footnote referenced in its middle, this should be considered as an editorial error, in this case, get back to us.

For example in a table:

Table 9 – Example measurement uncertainty budget for F_a of a horizontally-polarized biconical antenna measured by the SSM

Source of uncertainty or quantity X_i	Value dB	Probability distribution	Divisor	Sensitivity	u_i dB	Note ^a
Common uncertainty component in SA measurement	0,26	Normal	2	$\sqrt{3}/2$	0,11	see Table 7 (7.2.3)
Repeatability of SA value	0,10	Normal	2	$\sqrt{3}/2$	0,04	N6)
Transmit antenna mismatch	0,16	U-shaped	$\sqrt{2}$	$\sqrt{3}/2$	0,10	N10)
Receive antenna mismatch	0,16	U-shaped	$\sqrt{2}$	$\sqrt{3}/2$	0,10	N10)
Insertion loss of the adaptor used in SA measurement	0,06	Rectangular	$\sqrt{3}$	$\sqrt{3}/2$	0,03	N11)
Effects of site and masts	1,0	Rectangular	$\sqrt{3}$	$\sqrt{3}/2$	0,5	N12)
Antenna separation error	0,05	Rectangular	$\sqrt{3}$	$\sqrt{3}/2$	0,03	N13)
Antenna height error	0,03	Rectangular	$\sqrt{3}$	$\sqrt{3}/2$	0,02	N14)
Antenna orientation error	-	Rectangular	$\sqrt{3}$	$\sqrt{3}/2$	-	N15)
Polarization mismatch	-	Rectangular	$\sqrt{3}$	$\sqrt{3}/2$	-	N16)
Effects of phase centre position	-	Rectangular	$\sqrt{3}$	$\sqrt{3}/2$	-	N17)
Deviation from free-space F_a	0,5	Rectangular	$\sqrt{3}$	$\sqrt{3}/2$	0,25	N17)
Combined standard uncertainty u_c for $F_{a,SSM}$ used as F_a					0,59	
Expanded uncertainty, U^b ($k = 2$)					1,18	
SSM at a CALTS: see Figure 11 (7.4.2.1), $d = 10$ m, $h_i = 2$ m, $h_j = 1$ m to 4 m (scanned).						
^a Numbered notes are as given by the numbered items in E.2.						
^b If the major uncertainty components in this table do not follow a normal distribution function, the expanded uncertainty should be evaluated using a computer simulation such as Monte-Carlo method. However, this table shows the combined standard uncertainty given by the RSS calculation, because some calibration laboratories may not routinely perform Monte-Carlo method simulations.						

For example in the text:

$40\text{ °C} < T^{a)} < 60\text{ °C}$
<p>^{a)} Where the operating temperature exceeds 60 °C, then manufacturers' information shall be consulted regarding the appropriate factors.</p>



24 Track Changes in Publication Titles

Requested: March 2022

Valid as of: April 2022

When there are track changes in a publication title, <styled-content> should be used. The title should be placed in <p> right under <title>FOREWORD</title>.

See also **item 15.2**.

For example:

**CONNECTORS FOR ELECTRICAL AND ELECTRONIC EQUIPMENT –
TESTS AND MEASUREMENTS –**

**Part 28-100: Signal integrity tests up to ~~1 000 MHz~~
on ~~IEC 60603-7 and IEC 61076-3 series connectors~~ 2 000 MHz –
Tests 28a to 28g**

Is coded as:

```
<sec id="sec-foreword" sec-type="foreword">  
<title>FOREWORD</title>  
<p>CONNECTORS FOR <styled-content specific-use="insert">ELECTRICAL AND</styled-content>  
ELECTRONIC EQUIPMENT - TESTS AND MEASUREMENTS - Part 28-100: Signal integrity tests up to  
<styled-content specific-use="delete">1 000 MHz on IEC 60603-7 and IEC 61076-3 series connectors  
</styled-content> <styled-content specific-use="insert"> 2 000 MHz</styled-content> - Tests 28a to 28g</p>
```