



SLOVENSKI STANDARD

SIST EN 300 220-3:2001

01-februar-2001

9`Y_fca U[bYfbUnXfi y`fj cghfØ A7L]b`nUXYj Yj`nj Yn]`n`fUX]`g_ ja`gdY_fca`fØFAŁ!
BUdfUj Y`fUh_Y[UXcgY[UfGF8 gŁ!`HM b] bY`UfU`hf]gh_Y]b`dfYg_i`yU`bY`a`YrcXY
nUfUX]`g_c`cdfYa`cž_]`gYi`dcfUV`Uj`ZY_j`Yb`bYa`cVa`c`f`cX`&`A<n`Xc`%\$\$\$
A<n`n`b]j`c`f`a`c`j`Xc`)`\$\$`a`K`!`" `XY.`<Ufa`cb]n]fUb]9Bž_]`nU`Ya`UV]ghj`YbY
nU`hfj`Y``YbU`"&X]fY`Hj`YF/`HH9

Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 3: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

[SIST EN 300 220-3:2001](https://standards.iteh.ai/catalog/standards/sist/d0a9fe39-ea08-45e0-9ab9-246f85539455/sist-en-300-220-3-2001)

<https://standards.iteh.ai/catalog/standards/sist/d0a9fe39-ea08-45e0-9ab9-246f85539455/sist-en-300-220-3-2001>

Ta slovenski standard je istoveten z: **EN 300 220-3 Version 1.1.1**

ICS:

33.060.20	Sprejemna in oddajna oprema	Receiving and transmitting equipment
33.100.01	Elektromagnetna združljivost na splošno	Electromagnetic compatibility in general

SIST EN 300 220-3:2001

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 300 220-3:2001](https://standards.iteh.ai/catalog/standards/sist/d0a9fe39-ea08-45e0-9ab9-246f85539455/sist-en-300-220-3-2001)

<https://standards.iteh.ai/catalog/standards/sist/d0a9fe39-ea08-45e0-9ab9-246f85539455/sist-en-300-220-3-2001>

ETSI EN 300 220-3 V1.1.1 (2000-09)

Candidate Harmonized European Standard (Telecommunications series)

**Electromagnetic compatibility and
Radio spectrum Matters (ERM);
Short Range Devices (SRD);
Radio equipment to be used in the 25 MHz to 1 000 MHz
frequency range with power levels ranging up to 500 mW;
Part 3: Harmonized EN covering essential requirements
under article 3.2 of the R&TTE Directive**

**iTeh STANDARD PREVIEW
(standards.iteh.ai)**

[SIST EN 300 220-3:2001](https://standards.iteh.ai/catalog/standards/sist/d0a9fe39-ea08-45e0-9ab9-246f85539455/sist-en-300-220-3-2001)

<https://standards.iteh.ai/catalog/standards/sist/d0a9fe39-ea08-45e0-9ab9-246f85539455/sist-en-300-220-3-2001>



Reference

REN/ERM-RP08-0403-3

Keywords

radio, SRD, testing

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 300 220-3:2001

<https://standards.iteh.ai/catalog/standards/sist/d0a9fe39-ea08-45e0-9ab9-246f85539455/sist-en-300-220-3-2001>

Important notice

Individual copies of the present document can be downloaded from:

<http://www.etsi.org>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at <http://www.etsi.org/tb/status/>

If you find errors in the present document, send your comment to:
editor@etsi.fr

Copyright Notification

No part may be reproduced except as authorized by written permission.
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2000.
All rights reserved.

Contents

Intellectual Property Rights	5
Foreword.....	5
Introduction	6
1 Scope	8
2 References	8
3 Definitions, symbols and abbreviations	9
3.1 Definitions	9
3.2 Symbols.....	9
3.3 Abbreviations	9
4 Technical requirements specifications	9
4.1 Transmitter requirements	9
4.1.1 Frequency error or frequency drift.....	9
4.1.2 Carrier power (conducted).....	9
4.1.3 Effective radiated power	9
4.1.4 Frequency deviation.....	9
4.1.5 Modulation depth.....	10
4.1.6 Adjacent channel power.....	10
4.1.7 Range of modulation bandwidth for wide band equipment (> 25 kHz).....	10
4.1.8 Spurious emissions.....	10
4.1.9 Frequency stability under low-voltage conditions	10
4.1.10 Duty cycle.....	10
4.2 Receiver requirements	10
4.2.1 Spurious radiations	10
4.2.2 Adjacent channel selectivity - in band.....	10
4.2.3 Adjacent band selectivity.....	11
4.2.4 Blocking or desensitization.....	11
5 Testing for compliance with technical requirements.....	11
5.1 Essential radio test suites.....	11
5.1.1 Environmental conditions for testing	11
5.1.1.1 Normal and extreme test-conditions.....	11
5.1.1.2 Test power source	11
5.1.2 Choice of samples for test suites.....	11
5.1.3 Transmitter test suites	11
5.1.3.1 Frequency error or drift.....	11
5.1.3.2 Carrier power (conducted)	11
5.1.3.3 Effective radiated power	12
5.1.3.4 Frequency deviation	12
5.1.3.5 Modulation depth	12
5.1.3.6 Adjacent channel power	12
5.1.3.7 Range of modulation bandwidth for wide band equipment (> 25 kHz).....	12
5.1.3.8 Spurious emissions.....	12
5.1.3.9 Frequency stability under low-voltage conditions	12
5.1.4 Receiver test suites.....	12
5.1.4.1 Spurious radiations.....	12
5.2 Other test specifications	13

6	Interpretation of measurement results	13
Annex A (informative):	Subclauses of the present document relevant for additional essential requirements of relevant EC Council Directives	14
A.1	Compliance with 99/5/EC (R&TTE Directive) article 3.3e	14
A.2	Compliance with 99/5/EC (R&TTE Directive) article 3.3f	14
History	15

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 300 220-3:2001](https://standards.iteh.ai/catalog/standards/sist/d0a9fe39-ea08-45e0-9ab9-246f85539455/sist-en-300-220-3-2001)

<https://standards.iteh.ai/catalog/standards/sist/d0a9fe39-ea08-45e0-9ab9-246f85539455/sist-en-300-220-3-2001>

Intellectual Property Rights

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://www.etsi.org/ipr>).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

This Candidate Harmonized European Standard (Telecommunications series) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM).

The present document is part 3 of a multi-part deliverable, covering the Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW, as identified below:

- Part 1: "Technical characteristics and test methods";
- Part 2: "Supplementary parameters not intended for conformity purposes";
- Part 3: "Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive".**

The present document has been produced by ETSI in response to a mandate from the European Commission issued under Council Directive 98/34/EC [3] 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 [1] 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") [1].

National transposition dates

Date of adoption of this EN:	1 September 2000
Date of latest announcement of this EN (doa):	31 December 2000
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	30 June 2001
Date of withdrawal of any conflicting National Standard (dow):	30 June 2001

Introduction

The present document is part of a set of standards designed to fit in a modular structure to cover all radio and telecommunications terminal equipment under the R&TTE Directive [1]. Each standard is a module in the structure. The modular structure is shown in figure 1.

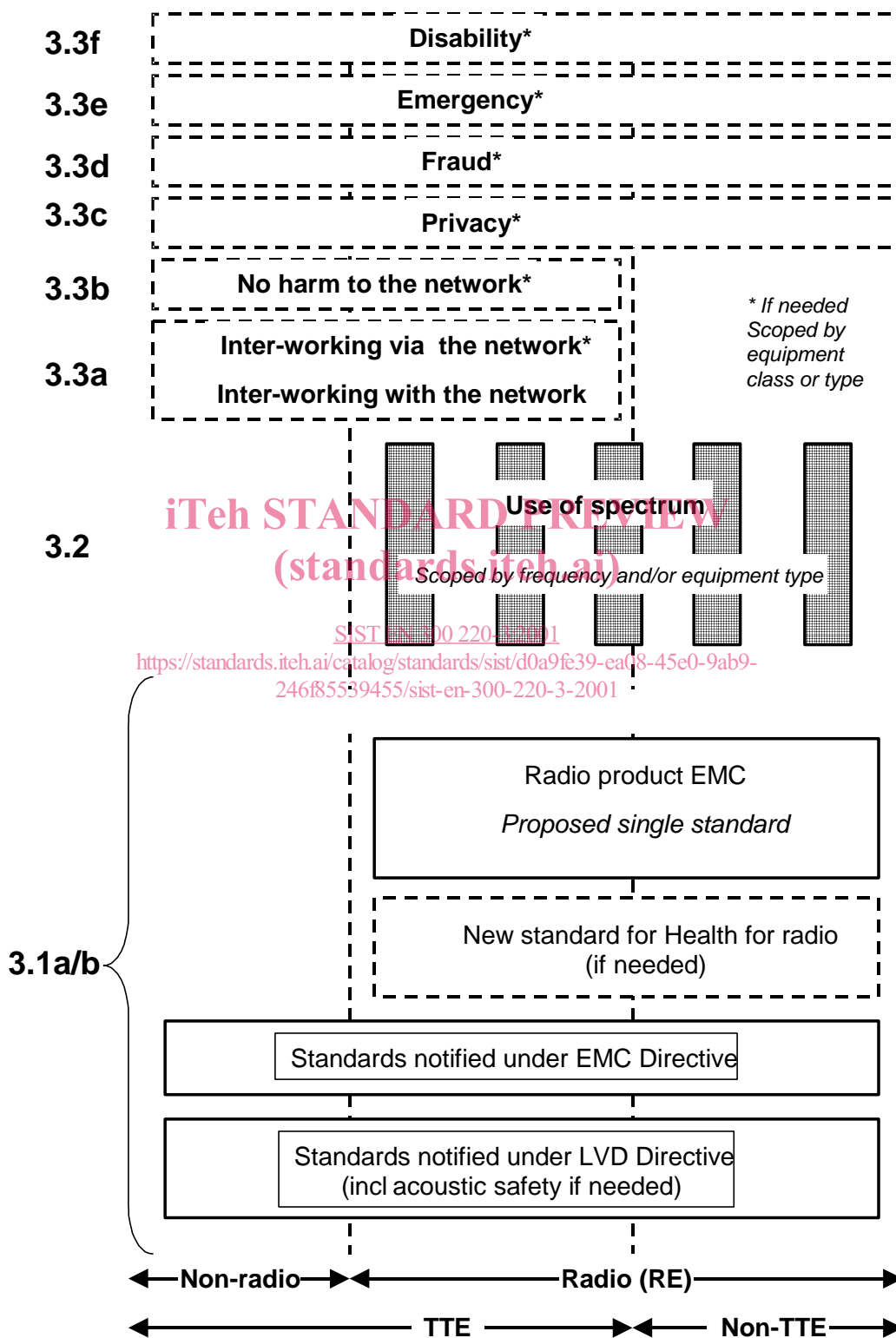


Figure 1: Modular structure for the various standards used under the R&TTE Directive

The left hand edge of the figure shows the different subclauses of Article 3 of the Directive.

The vertical boxes show the standards under article 3.2 for the use of the radio spectrum. The scopes of these standards are specified either by frequency (normally in the case where frequency bands are harmonized) or by radio equipment type.

For article 3.3 various horizontal boxes are shown. Their dotted lines indicate that essential requirements in these areas have to be adopted by the Commission. If such essential requirements are adopted, and as far and as long as they are applicable, they will justify individual standards whose scope is likely to be specified by function or interface type.

The bottom of the figure shows the relationship of the standards to radio equipment and telecommunications terminal equipment. A particular equipment may be radio equipment, telecommunications terminal equipment or both. The General Standard will always apply to it, and a radio spectrum standard will apply if it is radio equipment. An article 3.3 standard will apply as well only if the relevant essential requirement is adopted by the Commission and if the equipment in question lies within the scope of the corresponding standard. Thus, depending on the nature of the equipment, the essential requirements under the Directive may be covered in just the General Standard or in a set of standards that includes the General Standard.

The modularity principle has been taken because:

- it minimizes the number of standards needed. Because equipment may, in fact, have multiple interfaces and functions it is not practicable to produce a single standard for each possible combination of functions that may occur in an equipment;
- it provides scope for standards under articles 3.2 and 3.3 to be added when new frequency bands are agreed or when the Commission takes decisions under article 3 without requiring alteration of standards that are already published;
- it clarifies, simplifies and promotes the usage of Harmonized Standards as the relevant means of conformity assessment.

ITeH STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 300 220-3:2001](https://standards.iteh.ai/catalog/standards/sist/d0a9fe39-ea08-45e0-9ab9-246f85539455/sist-en-300-220-3-2001)

<https://standards.iteh.ai/catalog/standards/sist/d0a9fe39-ea08-45e0-9ab9-246f85539455/sist-en-300-220-3-2001>