
Elektromagnetna združljivost (EMC) in zadeve v zvezi z radijskim spektrom (ERM) - Brezžične video povezave (WVL), ki obratujejo v frekvenčnih pasovih od 1,3 GHz do 50 GHz - Harmonizirani evropski standard (EN) z zahtevami člena 3.2 direktive o radijski in telekomunikacijski terminalski opremi (R&TTE)

Electromagnetic compatibility and Radio spectrum Matters (ERM); Wireless Video Links (WVL) operating in the 1,3 GHz to 50 GHz frequency band; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive

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Ta slovenski standard je istoveten z: EN 302 064-2 Version 1.1.1

ICS:

33.100.01	Elektromagnetna združljivost na splošno	Electromagnetic compatibility in general
33.160.40	Video sistemi	Video systems

SIST EN 302 064-2 V1.1.1:2004 **en**

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ETSI EN 302 064-2 V1.1.1 (2004-04)

Candidate Harmonized European Standard (Telecommunications series)

**Electromagnetic compatibility
and Radio spectrum Matters (ERM);
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Reference

DEN/ERM-TG17-001-2

Keywords

radio, regulation, SHF, SRD, UHF, video

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Sous-Préfecture de Grasse (06) N° 7803/88

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SIST EN 302 064-2 V1.1.1:2004

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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 has been produced by ETSI in response to a mandate from the European Commission issued under Council Directive 98/34/EC [3] (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 [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].

Technical specifications relevant to Directive 1999/5/EC [1] are given in annex A.

The present document is part 2 of a multipart deliverable covering the technical characteristics and methods for Wireless Video Links (WVL) operating in the 1.3 GHz to 50 GHz frequency band, as identified below:

Part 1: "Technical characteristics and methods of measurement";

Part 2: "Harmonized EN under article 3.2 of the R&TTE Directive".

National transposition dates

Date of adoption of this EN:	2 April 2004
Date of latest announcement of this EN (doa):	31 July 2004
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 January 2005
Date of withdrawal of any conflicting National Standard (dow):	31 January 2006

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.

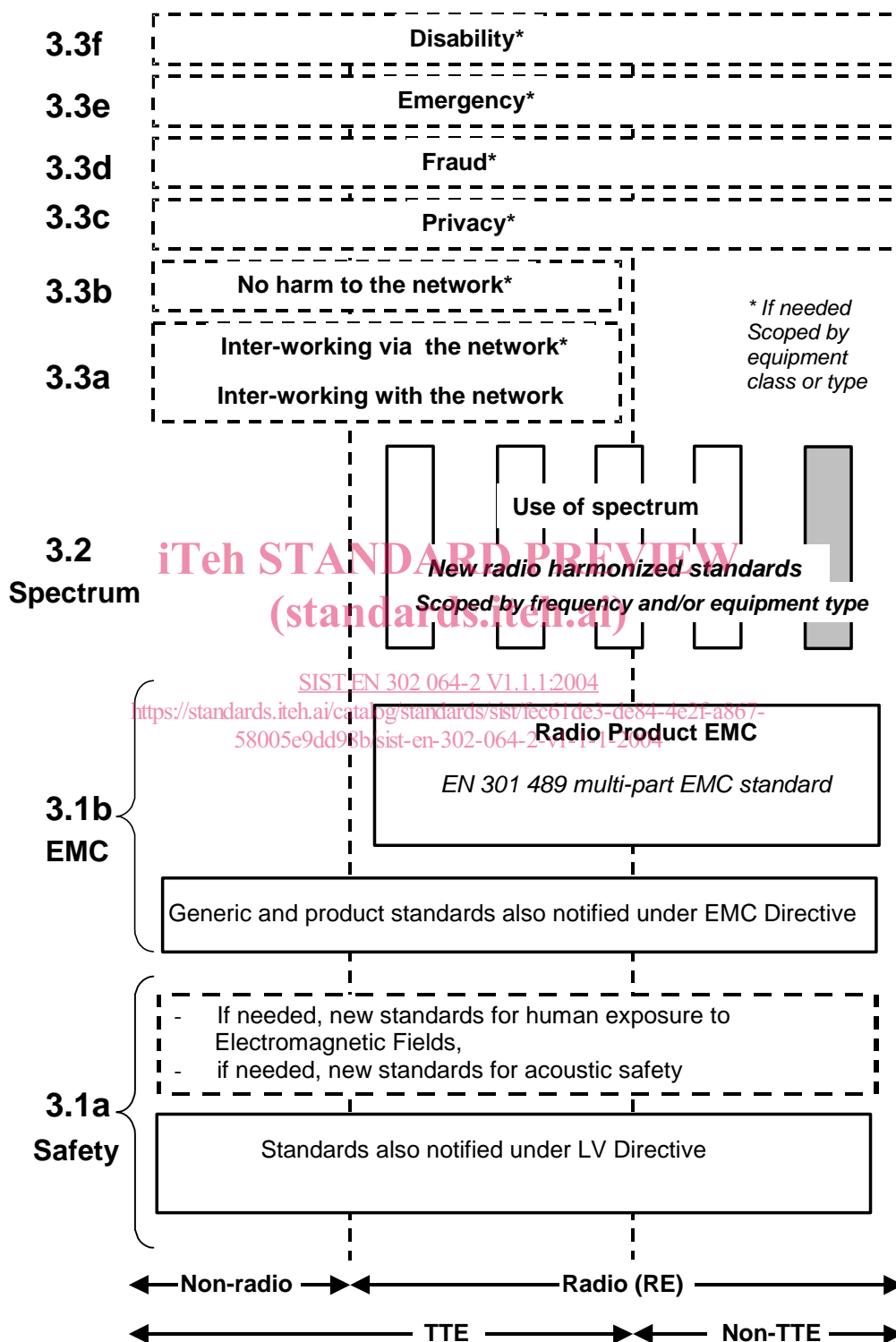


Figure 1: Modular structure for the various standards used under the R&TTE Directive

The left hand edge of the figure 1 shows the different clauses of article 3 of the R&TTE Directive [1].

For article 3.3 various horizontal boxes are shown. Dotted lines indicate that at the time of publication of the present document 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 vertical boxes show the standards under article 3.2 for the use of the radio spectrum by radio equipment. 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 3.1b the diagram shows EN 301 489, the multi-part product EMC standard for radio used under the EMC Directive.

For article 3.1a the diagram shows the existing safety standards currently used under the LV Directive and new standards covering human exposure to electromagnetic fields. New standards covering acoustic safety may also be required.

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. 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 under the R&TTE Directive [1] is adopted by the Commission and if the equipment in question is covered by the scope of the corresponding standard. Thus, depending on the nature of the equipment, the essential requirements under the R&TTE Directive [1] may be covered in a set of standards.

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 equipment;
- it provides scope for standards to be added:
 - under article 3.2 when new frequency bands are agreed; or
 - under article 3.3 should the Commission take the necessary decision 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.

1 Scope

The present document covers the minimum characteristics considered necessary in order to make the best use of the available frequencies. It does not necessarily include all the characteristics that may be required by a user, nor does it necessarily represent the optimum performance achievable.

The present document applies to terrestrial wireless digital video link equipment operating on radio frequencies above 1,3 GHz. It does not preclude any digital modulation technique, provided that the modulated signal lies within the prescribed limits. Instructions for the presentation of equipment for testing purposes are included.

The user categories covered, are as follows:

- Category 1: typically used by broadcasters and programme-makers (for use in licensed spectrum). Users require the highest video contribution quality and or minimum processing delay times to allow both real time inserts into programmes and easy accurate editing.
- Category 2: typically used by professional and businesses. Users have quality requirements similar to above but are maybe not concerned with delay issues that plague the broadcaster and can therefore operate within a smaller spectrum mask.
- Category 3: typically used by industrial users. Examples include civil and industrial users, emergency services, Automobile Associations, the utility industries, etc, who need the good quality available from digital-based systems and who operate on licensed allocations.
- Category 4: typically used by industrial users including industrial security. Most of these systems could operate either in ISM bands or frequencies specifically allocated for the purpose.
- Category 5: typically used by consumers caters for consumers, hobbyists and amateur users. The proposed 5 MHz mask can be subdivided into $2 \times 2,5$ for two way visual communication and is primarily intended for indoor use.

The preferred channel bandwidths for the equipment covered by the present document are shown in table 1.

Table 1: Maximum allowable channel bandwidth

Equipment	Maximum allowable channel bandwidth
Category 1	20 MHz
Category 2	10 MHz
Category 3	10 MHz
Category 4	10 MHz
Category 5	5 MHz

Equipment with controls that if maladjusted might increase its interfering potentialities shall only be within the scope of the present document if those controls are only accessible by partial or complete disassembly of the device and requiring the use of tools.

The present document is intended to cover the provisions of article 3.2 of Directive 1999/5/EC [1] (R&TTE Directive), which states that "... radio equipment shall be so constructed that it effectively uses the spectrum allocated to terrestrial/space radio communications and orbital resources so as to avoid harmful interference".

In addition to the present document, other ENs that specify technical requirements in respect of essential requirements under other parts of article 3 of the R&TTE Directive may apply to equipment within the scope of the present document.

NOTE: A list of such ENs is included on the web site <http://www.newapproach.org>.