

SLOVENSKI STANDARD
SIST EN 305 550-2 V 1.2.1:2014
01-december-2014

**Elektromagnetna združljivost in zadeve v zvezi z radijskim spektrom (ERM) -
Naprave kratkega dosega (SRD) - Radijska oprema, ki se uporablja v frekvenčnem
območju od 40 GHz do 246 GHz - 2. del: Harmonizirani EN, ki zajema bistvene
zahteve člena 3.2 direktive R&TTE**

Electromagnetic compatibility and Radio spectrum Matters (ERM) - Short Range Devices
(SRD) - Radio equipment to be used in the 40 GHz to 246 GHz frequency range - Part 2:
Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

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Ta slovenski standard je istoveten z: EN 305 550-2 Version 1.2.1

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 305 550-2 V 1.2.1:2014 **en**

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ETSI EN 305 550-2 V1.2.1 (2014-10)



**Electromagnetic compatibility
and Radio spectrum Matters (ERM);
Short Range Devices (SRD);
Radio equipment to be used
in the 40 GHz to 246 GHz frequency range;
Part 2: Harmonized EN covering the essential requirements
of article 3.2 of the R&TTE Directive**

Reference

REN/ERM-TG28-502

Keywords

Harmonized standard, radio, regulation, SRD,
testing**ETSI**

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Foreword

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

The present document is a new standard that takes advantage of technical developments within the SRD industry. In particular this includes the development in technologies which makes applications in the higher frequency range possible.

The present document has been produced by ETSI in response to a mandate M/284 issued from the European Commission under Directive 98/34/EC [i.1] as amended by Directive 98/48/EC [i.9].

The title and reference to the present document are intended to be included in the publication in the Official Journal of the European Union of titles and references of Harmonized Standard under the Directive 1999/5/EC [i.2].

See article 5.1 of Directive 1999/5/EC [i.2] for information on presumption of conformity and Harmonized Standards or parts thereof the references of which have been published in the Official Journal of the European Union.

The requirements relevant to Directive 1999/5/EC [i.2] are summarized in annex A.

The present document is part 2 of a multi-part deliverable covering Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 40 GHz to 246 GHz frequency range, as identified below:

Part 1: "Technical characteristics and test methods";

Part 2: "Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive".

National transposition dates

Date of adoption of this EN:	17 October 2014
Date of latest announcement of this EN (doa):	31 January 2015
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 July 2015
Date of withdrawal of any conflicting National Standard (dow):	31 July 2016

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**may not**", "**need**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

Introduction

The present document is part of a set of standards developed by ETSI and is designed to fit in a modular structure to cover all radio and telecommunications terminal equipment within the scope of the R&TTE Directive [i.2]. The modular structure is shown in EG 201 399 [i.4].

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1 Scope

The present document applies to the following Short Range Device major equipment types:

- Generic Short Range Devices, including alarms, telecommand, telemetry, data transmission in general, etc.

These radio equipment types are capable of operating in the frequency bands within the 40 GHz to 246 GHz range as specified in table 1:

- either with a Radio Frequency (RF) output connection and dedicated antenna or with an integral antenna;
- for all types of modulation.

Table 1 shows a list of the frequency bands as designated in the CEPT/ERC Recommendation 70-03 [i.3] as known at the date of publication of the present document.

NOTE 1: Table 1 represents the most widely implemented position within the CEPT countries [i.3], but it should not be assumed that all designated bands are available in all countries. It is also foreseen that these frequencies may be implemented in European Commission Decision 2006/771/EC [i.6], European Commission Decision 2013/752/EU [i.7] and CEPT/ERC Recommendation 74-01 [i.8] in the future.

Table 1: Short Range Devices within the 40 GHz to 246 GHz frequency range

Frequency Bands	Applications	Notes
57 GHz to 64 GHz	Non-specific SRD	
61,0 GHz to 61,5 GHz	Non-specific SRD	
122 GHz to 123 GHz	Non-specific SRD	
244 GHz to 246 GHz	Non-specific SRD	

NOTE 2: In addition, it should be noted that other frequency bands may be available in a country within the frequency range 40 GHz to 246 GHz covered by the present document, the CEPT/ERC Recommendation 70-03 [i.3] as implemented through National Radio Interfaces (NRI) and additional NRI as relevant.

NOTE 3: On non-harmonized parameters, national administrations may impose certain conditions such as the type of modulation, frequency, channel/frequency separations, maximum transmitter radiated power, duty cycle, and the inclusion of an automatic transmitter shut-off facility, as a condition for the issue of an individual or general licence, or as a condition for the issuing of Individual Rights for use of spectrum or General Authorization, or as a condition for use "under licence exemption" as it is in most cases for Short Range Devices.

The present document covers fixed stations, mobile stations and portable stations.

NOTE 4: A list of such ENs is included on the web site <http://www.newapproach.org>.

2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

NOTE: While any hyperlinks included in this clause were valid at the time of publication ETSI cannot guarantee their long term validity.

2.1 Normative references

The following referenced documents are necessary for the application of the present document.

- [1] ETSI EN 305 550-1 (V1.2.1) (10-2014): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 40 GHz to 246 GHz frequency range; Part 1: Technical characteristics and test methods".

2.2 Informative references

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

- [i.1] Directive 98/34/EC of the European Parliament and of the Council of 22 June 1998 laying down a procedure for the provision of information in the field of technical standards and regulations.
- [i.2] 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 (R&TTE Directive).
- [i.3] CEPT/ERC Recommendation 70-03: "Relating to the use of Short Range Devices (SRD)".
- [i.4] ETSI EG 201 399 (V2.1.1): "Electromagnetic compatibility and Radio spectrum Matters (ERM); A guide to the production of candidate Harmonized Standards for application under the R&TTE Directive".
- [i.5] ETSI TR 100 028 (V1.4.1) (all parts): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics".
- [i.6] European Commission Decision 2006/771/EC of 9 November 2006 on harmonization of the radio spectrum for use by short-range devices.
- [i.7] European Commission Decision 2013/752/EU of 11 December 2013 (amending Decision 2006/771/EC on harmonisation of the radio spectrum for use by short-range devices and repealing Decision 2005/928/EC).
- [i.8] CEPT/ERC Recommendation 74-01: "Unwanted emissions in the spurious domain", Hradec Kralove, Cardiff 2011.
- [i.9] Directive 98/48/EC of the European Parliament and of the Council of 20 July 1998 amending Directive 98/34/EC laying down a procedure for the provision of information in the field of technical standards and regulations.

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in the R&TTE Directive [i.2] and EN 305 550-1 [1] apply.

3.2 Symbols

For the purposes of the present document, the symbols given in EN 305 550-1 [1] apply.

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in EN 305 550-1 [1] apply.