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Širokopasovni sistemi za prenos podatkov SRD - Harmonizirani standard za dostop do radijskega spektra - 1. del: Širokopasovne naprave za prenos podatkov: omrežne dostopne točke, ki delujejo v frekvenčnih pasovih od 863 MHz do 868 MHz in od 915,8 MHz do 919,4 MHz

Wideband data transmission SRD - Harmonised Standard for access to radio spectrum - Part 1: Wideband data transmission devices: network access points operating in the frequency bands 863 MHz to 868 MHz and 915,8 MHz to 919,4 MHz

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**Wideband data transmission SRD;
Harmonised Standard for access to radio spectrum;
Part 1: Wideband data transmission devices: network access
points operating in the frequency bands 863 MHz to 868 MHz
and 915,8 MHz to 919,4 MHz**

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Foreword

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

The present document has been prepared under the Commission's standardisation request C(2015) 5376 final [i.3] to provide one voluntary means of conforming to the essential requirements of Directive 2014/53/EU on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC [i.1].

Once the present document is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of the present document given in Table A-1 confers, within the limits of the scope of the present document, a presumption of conformity with the corresponding essential requirements of that Directive, and associated EFTA regulations.

The present document is part 1 of a multi-part deliverable covering Wideband data transmission SRD; Harmonised Standard for access to radio spectrum, as identified below:

- Part 1: "Wideband data transmission devices: network access points operating in the frequency bands 863 MHz to 868 MHz and 915,8 MHz to 919,4 MHz";**
- Part 2: "Wideband data transmission devices: terminal node operating in designated bands 863 MHz to 868 MHz and 915,8 MHz to 919,4 MHz".

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Modal verbs terminology

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1 Scope

The present document specifies technical characteristics and test methods to be used in the conformance assessment of wideband data transmission Short Range Device (SRD) network access point equipment in the frequency range 863 MHz to 868 MHz and 915,8 MHz to 919,4 MHz. The wideband data transmission device category covers radio devices that use wideband modulation techniques to access the spectrum. The present document specifies technical characteristics and methods of measurements for equipment operated in the following designated frequency bands given in Table 1-1.

Table 1-1: Designated frequency bands

SRD frequency bands	
863 MHz to 868 MHz	According to band no 84 of Commission Implementing Decision (EU) 2022/180 [i.7] and Annex 3 band a1 of CEPT/ERC/REC 70 03 [i.2].
915,8 MHz to 919,4 MHz	According to band a2 of Annex 3 of CEPT/ERC/REC 70 03 [i.2].
917,4 MHz to 919,4 MHz	According to band no 2 of Commission Implementing Decision (EU) 2022/172 [i.8].

In the designated bands the following types of equipment are defined:

- Type 1: Wideband Data Transmission Network Access Point (NAP) in data networks in 863,0 MHz to 868,0 MHz.
- Type 2: Wideband Data Transmission Master Network Access Point (NAP) in data networks in 915,8 MHz to 919,4 MHz and in 917,4 MHz to 919,4 MHz.
- Type 3: Wideband Data Transmission Network Access Point (NAP) in data networks in 915,8 MHz to 919,4 MHz and in 917,4 MHz to 919,4 MHz.

NOTE 1: The availability of the frequency bands for type 2 and type 3 equipment in the European Union and CEPT countries can be obtained from EFIS (<https://efis.cept.org/>) and is also listed in Appendices 1 and 3 of CEPT/REC 70-03 [i.2].

In addition, it should be noted that, in some countries, part or all of the bands for type 2 and type 3 equipment may be unavailable, and/or other frequency bands may be available, for networked and/or network based short range devices. See National Radio Interfaces (NRI) as relevant for additional guidance.

NOTE 2: The relationship between the present document and essential requirements of article 3.2 of Directive 2014/53/EU [i.1] is given Annex A.

2 References

2.1 Normative references

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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 2014/53/EU](#) of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC.
- [i.2] [CEPT/ERC/REC 70-03 \(12 February 2022\)](#): "Relating to the use of Short Range Devices (SRD)".
- [i.3] [Commission Implementing Decision C\(2015\) 5376 final of 4.8.2015](#) on a standardisation request to the European Committee for Electrotechnical Standardisation and to the European Telecommunications Standards Institute as regards radio equipment in support of Directive 2014/53/EU of the European Parliament and of the Council.
- [i.4] [ECC Report 261 \(01-2017\)](#): "Short Range Devices in the frequency range 862-870 MHz".
- [i.5] [ECC Report 246 \(01-2017\)](#): "Wideband and Higher DC Short Range Devices in 870-875.8 MHz and 915.2-920.8 MHz (companion to ECC Report 200)".
- [i.6] Recommendation ITU-T O.153 (10/92): "Basic parameters for the measurement of error performance at bit rates below the primary rate".
- [i.7] [Commission Implementing Decision \(EU\) 2022/180 of 8 February 2022](#) amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices.
- [i.8] [Commission Implementing Decision \(EU\) 2022/172 of 7 February 2022](#) amending Implementing Decision (EU) 2018/1538 on the harmonisation of radio spectrum for use by short-range devices within the 874-876 and 915-921 MHz frequency bands.
- [i.9] [ERC Recommendation 74-01 \(October 2021\)](#): "Unwanted Emission in the spurious domain".
- [i.10] EN 55016-1-1 (2019) part 1-1: "Specification for radio disturbance and immunity measuring apparatus and methods; Part 1: Radio disturbance and immunity measuring apparatus - Measuring apparatus", produced by CENELEC.
- [i.11] ETSI TR 100 028 (all parts) (V1.4.1): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics".
- [i.12] ETSI EG 203 336: "Guide for the selection of technical parameters for the production of Harmonised Standards covering article 3.1(b) and article 3.2 of Directive 2014/53/EU".
- [i.13] ETSI TR 102 273-4: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Improvement on Radiated Methods of Measurement (using test site) and evaluation of the corresponding measurement uncertainties; Part 4: Open area test site".
- [i.14] ETSI TR 102 273-3: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Improvement on Radiated Methods of Measurement (using test site) and evaluation of the corresponding measurement uncertainties; Part 3: Anechoic chamber with a ground plane".
- [i.15] ETSI TR 102 273-2: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Improvement on Radiated Methods of Measurement (using test site) and evaluation of the corresponding measurement uncertainties; Part 2: Anechoic chamber".

3 Definition of terms, symbols and abbreviations

3.1 Terms

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

adjacent channel: frequency range equal to the width of the operating channel immediately above and immediately below the operating channel

NOTE: See Figure 3.1-1.

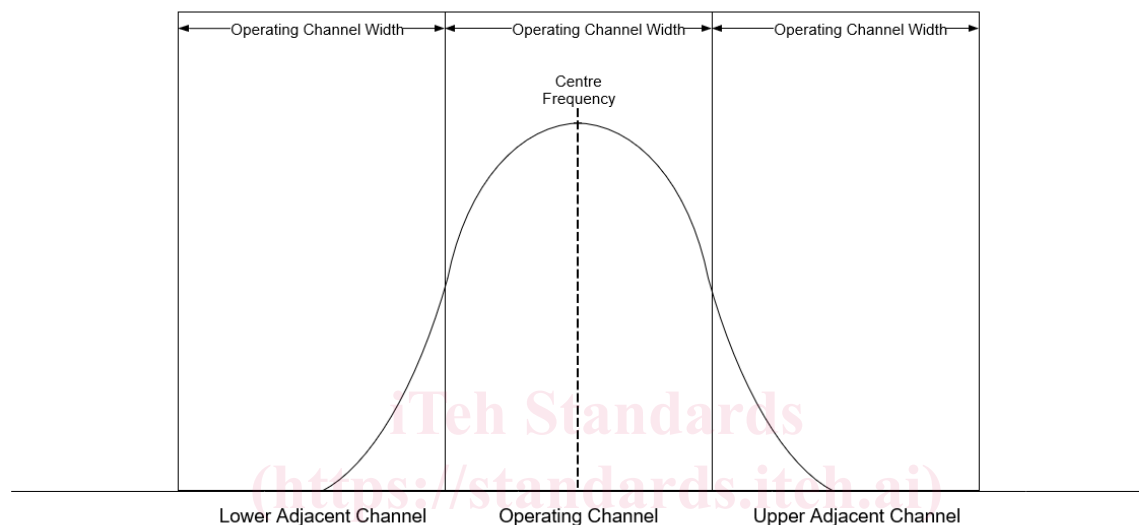


Figure 3.1-1: Adjacent channel definitions

Clear Channel Assessment (CCA): procedure of sensing the operating channel to determine whether or not it is occupied by a transmission

conducted measurements: measurements which are made using a direct 50 Ω connection to the equipment under test

centre frequency: centre frequency of the transmitted signal

continuous transmission: modulated transmission without interruption for the period of the test

data network: group of wirelessly communicating SRDs composed of a network access point and one or more terminal nodes

dedicated antenna: removable antenna supplied and tested with the radio equipment, designed as an indispensable part of the equipment

dialog: repeated transmit-response cycle between two devices within a transmission

disregard time ($T_{\text{Disregard}}$): interval below which two separate radio emissions in a channel are considered a single continuous transmitted burst

duty cycle: ratio, expressed as a percentage, of the cumulative duration of transmissions in an observation bandwidth within an observation interval divided by the observation interval

fixed SRD: SRD able to operate only at a fixed geographical location

integral antenna: permanent fixed antenna, which may be built-in, designed as an indispensable part of the equipment

Listen Before Transmit (LBT): mechanism by which an equipment applies Clear Channel Assessment (CCA) before transmission (also known as Listen Before Talk)