



**SLOVENSKI STANDARD**  
**oSIST prEN 303 659 V1.0.0:2025**  
**01-januar-2025**

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**Naprave kratkega dosega (SRD) v podatkovnih omrežjih - Radijska oprema za uporabo v frekvenčnih območjih od 865 MHz do 868 MHz in od 915 MHz do 919,4 MHz - Harmonizirani standard za dostop do radijskega spektra**

Short Range Devices (SRD) in Data Networks - Radio equipment to be used in the frequency ranges 865 MHz to 868 MHz and 915 MHz to 919,4 MHz - Harmonised Standard for access to radio spectrum

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**oSIST prEN 303 659 V1.0.0:2025**      **en**



# Draft ETSI EN 303 659 V1.0.0 (2024-11)



**Short Range Devices (SRD) in Data Networks;  
Radio equipment to be used in the frequency ranges  
865 MHz to 868 MHz and 915 MHz to 919,4 MHz;  
Harmonised Standard for access to radio spectrum**

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## Foreword

This draft Harmonised European Standard (EN) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM), and is now submitted for the combined Public Enquiry and Vote phase of the ETSI Standardisation Request deliverable Approval Procedure (SRdAP)

The present document has been prepared under the Commission's standardisation request C(2015) 5376 final [i.1] 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.2].

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.

Proposed national transposition dates	
Date of latest announcement of this EN (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	18 months after doa

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## Modal verbs terminology

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## Introduction

The present document covers devices to be deployed in the framework of Commission implementing decision (EU) 2022/172 [i.5] within the frequency range 915 MHz to 919,4 MHz frequency band and Commission implementing decision (EU) 2022/180 [i.3] within the 865 MHz to 868 MHz frequency band (band 47b), Those devices are also covered by ERC Recommendation 70-03 [i.4] Annex 2 bands c1, c3 and c4.

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# 1 Scope

The present document specifies technical characteristics and methods of measurements for Short Range Devices (SRD) in data networks; radio equipment to be used in the frequency bands 865 MHz to 868 MHz and 915,0 MHz to 919,4 MHz.

The present document covers types of devices NAP, master NAP, NN and TN operating indoor and outdoor. These types are specified in clause 4.2.2 together with related permitted e.r.p.

NOTE 1: The availability of the frequency bands in European Union and CEPT countries can be obtained from the EFIS (<https://efis.cept.org/>) and is also listed in Appendices 1 and 3 of ERC/REC 70-03 [i.4].

NOTE 2: It should be noted that, in some countries, part or all of the band 915,0 MHz to 919,4 MHz may be unavailable, for networked and/or network based short range devices. See National Radio Interfaces (NRI) as relevant for additional guidance.

NOTE 3: For 25 mW equipment, 917,4 MHz to 919,4 MHz is the core harmonised band according to EC DEC 2022/172 [i.5].

NOTE 4: The relationship between the present document and essential requirements of article 3.2 of Directive 2014/53/EU [i.2] is given in Annex A.

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## 2 References

### 2.1 Normative 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 referenced document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found in [ETSI docbox](#).

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

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

Not applicable.

### 2.2 Informative 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 referenced document (including any amendments) applies.

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

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] [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.2] [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.3] [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.4] [ERC Recommendation 70-03](#): "Relating to the use of Short Range Devices (SRD)", June 2024.
- [i.5] [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.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] CISPR 16 (parts 1-1 and 1-4 (2010) part 1-5 (2014)): "Specification for radio disturbance and immunity measuring apparatus and methods; Part 1: Radio disturbance and immunity measuring apparatus".
- [i.8] ETSI TR 102 273-4 (V1.2.1): "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.9] ETSI TR 102 273-3 (V1.2.1): "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.10] ETSI TR 102 273-2 (V1.2.1): "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".
- [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] [ERC Recommendation 74-01](#): "Unwanted emissions in the spurious domain", May 2019.
- [i.14] [ECC Report 261](#): "Short Range Devices in the frequency range 862-870 MHz".

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## 3 Definition of terms, symbols and abbreviations

### 3.1 Terms

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

**Adaptive Power Control (APC):** mechanism to change the transmitter power in accordance with its link budget requirements