

<b>STN</b>	<b>Bunkové siete IMT</b> <b>Harmonizovaná norma pre prístup k rádiovému spektru</b> <b>Časť 1: Úvod a spoločné požiadavky</b> <b>Vydanie 15</b>	<b>STN</b> <b>EN 301 908-1</b> <b>V15.1.1</b>  87 1908
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IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements Release 15

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 05/22

Obsahuje: EN 301 908-1 V15.1.1:2021



# ETSI EN 301 908-1 V15.1.1 (2021-09)



**IMT cellular networks;  
Harmonised Standard for access to radio spectrum;  
Part 1: Introduction and common requirements  
Release 15**

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**Reference**

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REN/MSG-TFES-15-1

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**Keywords**

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3G, 3GPP, 3GPP2, 5G, cdma2000, cellular, digital,  
E-UTRA, IMT, IMT-2000, IMT-Advanced, LTE,  
LTE-Advanced, MAN-Advanced, mobile, NR,  
radio, regulation, UMTS, UTRA, WCDMA, WiMAX

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# Foreword

This Harmonised European Standard (EN) has been produced by ETSI Technical Committee Mobile Standards Group (MSG).

For non-EU countries the present document may be used for regulatory (Type Approval) purposes.

The present document has been prepared under the Commission's standardisation request C(2015) 5376 final [i.9] 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 as identified below:

**Part 1: "Introduction and common requirements";**

Part 2: "CDMA Direct Spread (UTRA FDD) User Equipment (UE)";

Part 3: "CDMA Direct Spread (UTRA FDD) Base Stations (BS)";

Part 4: "CDMA Multi-Carrier (cdma2000) User Equipment (UE)";

Part 5: "CDMA Multi-Carrier (cdma2000) Base Stations (BS)";

Part 6: "CDMA TDD (UTRA TDD) User Equipment (UE)";

Part 7: "CDMA TDD (UTRA TDD) Base Stations (BS)";

Part 8: "Harmonized EN for IMT-2000, TDMA Single-Carrier (UWC 136) (UE) covering essential requirements of article 3.2 of the R&TTE Directive";

- Part 9: "Harmonized EN for IMT-2000, TDMA Single-Carrier (UWC 136) (BS) covering essential requirements of article 3.2 of the R&TTE Directive";
- Part 10: "Harmonised Standard for IMT-2000, FDMA/TDMA (DECT) covering the essential requirements of article 3.2 of the Directive 2014/53/EU";
- Part 11: "CDMA Direct Spread (UTRA FDD) Repeaters";
- Part 12: "CDMA Multi-Carrier (cdma2000) Repeaters";
- Part 13: "Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)";
- Part 14: "Evolved Universal Terrestrial Radio Access (E-UTRA) Base Stations (BS)";
- Part 15: "Evolved Universal Terrestrial Radio Access (E-UTRA FDD) Repeaters";
- Part 16: "Harmonized EN for IMT-2000, Evolved CDMA Multi-Carrier Ultra Mobile Broadband (UMB) (UE) covering the essential requirements of article 3.2 of the R&TTE Directive";
- Part 17: "Harmonized EN for IMT-2000, Evolved CDMA Multi-Carrier Ultra Mobile Broadband (UMB) (BS) covering the essential requirements of article 3.2 of the R&TTE Directive";
- Part 18: "E-UTRA, UTRA and GSM/EDGE Multi-Standard Radio (MSR) Base Station (BS) Release 15";
- Part 19: "OFDMA TDD WMAN (Mobile WiMAX™) TDD User Equipment (UE)";
- Part 20: "OFDMA TDD WMAN (Mobile WiMAX™) TDD Base Stations (BS)";
- Part 21: "OFDMA TDD WMAN (Mobile WiMAX™) FDD User Equipment (UE)";
- Part 22: "OFDMA TDD WMAN (Mobile WiMAX™) FDD Base Stations (BS)";
- Part 23: "Active Antenna System (AAS) Base Station (BS) Release 15";
- Part 24: "New Radio (NR) Base Stations (BS) Release 15";
- Part 25: "New Radio (NR) User Equipment (UE) Release 15".

National transposition dates	
Date of adoption of this EN:	14 September 2021
Date of latest announcement of this EN (doa):	31 December 2021
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	30 June 2022
Date of withdrawal of any conflicting National Standard (dow):	30 June 2023

## Modal verbs terminology

In the present document "shall", "shall not", "should", "should not", "may", "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.



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## Introduction

The present document is part of a set of standards developed by ETSI that are designed to fit in a modular structure to cover radio equipment within the scope of the Radio Equipment Directive [i.1]. The present document is produced following the guidance in ETSI EG 203 336 [i.2] as applicable.

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# 1 Scope

The present document applies to user equipment, repeaters and base stations for IMT, falling within the scope of one of the other parts of ETSI EN 301 908 [i.8], except for IMT-2000 FDMA/TDMA (DECT). The present document also covers the corresponding ancillary equipment.

NOTE 1: ETSI EN 301 908-10 [i.7] contains in particular requirements for radiated spurious emissions and control and monitoring functions applicable to IMT-2000 FDMA/TDMA (DECT) equipment.

The present document includes technical requirements which are common to equipment falling within the scope of several of the other parts. It should be used in conjunction with at least another part of ETSI EN 301 908 [i.8].

NOTE 2: The other parts of ETSI EN 301 908 [i.8], which are listed in the foreword of the present document, specify technical requirements in respect of a particular type of IMT equipment.

NOTE 3: Recommendations ITU-R M.1457-15 [i.4], M.2012-4 [i.5] and M.2150.0 [i.10] define the characteristics of the members of the IMT-2000 family and IMT-Advanced respectively by means of references to technical specifications developed by Standards Development organizations. The present document applies to equipment designed to meet any version of the terrestrial specifications referenced in Recommendations ITU-R M.1457-15 [i.4] and M.2012-4 [i.5].

The present document contains requirements to demonstrate that radio equipment both effectively uses and supports the efficient use of radio spectrum in order to avoid harmful interference.

NOTE 4: The relationship between the present document and essential requirements of article 3.2 of Directive 2014/53/EU [i.1] 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 at <https://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.

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

- [1] Recommendation ITU-R SM.329-12 (09-2012): "Unwanted emissions in the spurious domain".
- [2] ETSI EN 301 502 (V12.5.2) (03-2017): "Global System for Mobile communications (GSM); Base Station (BS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU".
- [3] EN 55032:2015/A11:2020: "Electromagnetic compatibility of multimedia equipment - Emission Requirements", (produced by CENELEC).
- [4] EN IEC 55016-1-4:2019/A1:2020: "Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements", (produced by CENELEC).

## 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] 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] ETSI EG 203 336 (V1.2.1) (05-2020): "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.3] 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.4] Recommendation ITU-R M.1457-15 (10-2020): "Detailed specifications of the terrestrial radio interfaces of International Mobile Telecommunications-2000 (IMT-2000)".
- [i.5] Recommendation ITU-R M.2012-4 (11-2019): "Detailed specifications of the terrestrial radio interfaces of International Mobile Telecommunications-Advanced (IMT-Advanced)".
- [i.6] Recommendation ITU-R SM.1539-1 (2002): "Variation of the boundary between the out-of-band and spurious domains required for the application of Recommendations ITU-R SM.1541 and ITU-R SM.329".
- [i.7] ETSI EN 301 908-10 (V4.2.2) (11-2016): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks; Part 10: Harmonised Standard for IMT-2000, FDMA/TDMA (DECT) covering the essential requirements of article 3.2 of the Directive 2014/53/EU".
- [i.8] ETSI EN 301 908 (all parts): "IMT cellular networks; Harmonised Standard for access to radio spectrum".
- [i.9] 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.10] Recommendation ITU-R M.2150.0 (02-2021): "Detailed specifications of the terrestrial radio interfaces of International Mobile Telecommunications-2020 (IMT-2020)".
- [i.11] ETSI EN 301 908-24 (V15.1.1): "IMT cellular networks; Harmonised Standard for access to radio spectrum Part 24: New Radio (NR) Base Stations (BS) Release 15".
- [i.12] ETSI EN 301 908-25 (V15.1.1): "IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 25: New Radio (NR) User Equipment (UE) Release 15".
- [i.13] ETSI EN 301 908-23 (V15.1.1): "IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 23: Active Antenna System (AAS) Base Station (BS) Release 15".

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