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| STN | Bunkové siete IMT. Harmonizovaná EN vzťahujúca sa na základné požiadavky podľa článku 3.2 smernice R&TTE. Časť 18: Základňové stanice (BS) rádiových zariadení s viacerými štandardmi (MSR) E-UTRA, UTRA a GSM/EDGE. | STN EN 301 908-18 V7.1.2 87 1908 |
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IMT cellular networks; Harmonized EN 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)

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. 02/15

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ETSI EN 301 908-18 V7.1.2 (2014-07)



**IMT cellular networks;
Harmonized EN 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)**

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Foreword

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

The present document has been produced by ETSI in response to mandate M/284 issued from the European Commission under Directive 98/34/EC [i.1] as amended by Directive 98/48/EC [i.6].

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 18 of a multi-part deliverable. Full details of the entire series can be found in part 1 [i.7].

| National transposition dates | |
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| Date of adoption of this EN: | 30 June 2014 |
| Date of latest announcement of this EN (doa): | 30 September 2014 |
| Date of latest publication of new National Standard or endorsement of this EN (dop/e): | 31 March 2015 |
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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).

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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.3].

1 Scope

The present document applies to the following radio equipment type:

- 1) Multi-Standard Radio capable Base stations (E-UTRA, UTRA, GSM/EDGE).

These radio equipment types are capable of operating in all or any part of the frequency bands given in table 1-1.

Table 1-1: Base station operating bands

| Band designation and Band Category | Direction of transmission | MSR Base Station operating bands |
|------------------------------------|---------------------------|----------------------------------|
| 1 (BC1) | Transmit | 2 110 MHz to 2 170 MHz |
| | Receive | 1 920 MHz to 1 980 MHz |
| 3 (BC2) | Transmit | 1 805 MHz to 1 880 MHz |
| | Receive | 1 710 MHz to 1 785 MHz |
| 7 (BC1) | Transmit | 2 620 MHz to 2 690 MHz |
| | Receive | 2 500 MHz to 2 570 MHz |
| 8 (BC2) | Transmit | 925 MHz to 960 MHz |
| | Receive | 880 MHz to 915 MHz |
| 20 (BC1) | Transmit | 791 MHz to 821 MHz |
| | Receive | 832 MHz to 862 MHz |
| 22 (BC1) | Transmit | 3 510 MHz to 3 590 MHz |
| | Receive | 3 410 MHz to 3 490 MHz |
| 33 (BC3) | Transmit and Receive | 1 900 MHz to 1 920 MHz |
| 34 (BC3) | Transmit and Receive | 2 010 MHz to 2 025 MHz |
| 38 (BC3) | Transmit and Receive | 2 570 MHz to 2 620 MHz |
| 40 (BC3) | Transmit and Receive | 2 300 MHz to 2 400 MHz |
| 42 (BC3) | Transmit and Receive | 3 400 MHz to 3 600 MHz |
| 43 (BC3) | Transmit and Receive | 3 600 MHz to 3 800 MHz |

NOTE 1: For BS capable of multi-band operation, the supported operating bands may belong to different Band Categories.

The present document covers requirements for multi-RAT capable E-UTRA, UTRA and GSM/EDGE MSR Base Stations for 3GPP™ Release 9, 10 and 11.

The present document is intended to cover the provisions of Directive 1999/5/EC [i.2] (R&TTE Directive) [i.2], Article 3.2, 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 2: 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 referenced 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] Void.
- [2] ETSI TS 137 141 (V11.8.0) (2014-04): "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; E-UTRA, UTRA and GSM/EDGE; Multi-Standard Radio (MSR) Base Station (BS) conformance testing (3GPP TS 37.141 version 11.8.0 Release 11)".
- [3] ETSI TS 125 104 (V11.8.0) (2014-01): "Universal Mobile Telecommunications System (UMTS); Base Station (BS) radio transmission and reception (FDD) (3GPP TS 25.104 version 11.8.0 Release 11)".
- [4] ETSI TS 125 105 (V11.6.0) (2014-01): "Universal Mobile Telecommunications System (UMTS); Base Station (BS) radio transmission and reception (TDD) (3GPP TS 25.105 version 11.6.0 Release 11)".
- [5] ETSI TS 136 104 (V11.8.2) (2014-04): "LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception (3GPP TS 36.104 version 11.8.2 Release 11)".
- [6] ETSI TS 145 005 (V11.4.0) (2014-01): "Digital cellular telecommunications system (Phase 2+); Radio transmission and reception (3GPP TS 45.005 version 11.4.0 Release 11)".
- [7] Void.
- [8] ETSI EN 301 908-3 (V6.2.1) (2013-10): "IMT cellular networks; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive; Part 3: CDMA Direct Spread (UTRA FDD) Base Stations (BS)".
- [9] ETSI EN 301 908-7 (V5.2.1) (2011-07): "IMT cellular networks; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive; Part 7: CDMA TDD (UTRA TDD) Base Stations (BS)".
- [10] ETSI EN 301 908-14 (V6.2.1) (2013-10): "IMT cellular networks; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive; Part 14: Evolved Universal Terrestrial Radio Access (E-UTRA) Base Stations (BS)".
- [11] ETSI EN 301 502 (V11.1.1) (2014-07): "Global System for Mobile communications (GSM); Harmonized EN for Base Station Equipment covering the essential requirements of article 3.2 of the R&TTE Directive".
- [12] ETSI TS 137 104 (V11.8.0) (2014-04): "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; E-UTRA, UTRA and GSM/EDGE; Multi-Standard Radio (MSR) Base Station (BS) radio transmission and reception (3GPP TS 37.104 version 11.8.0 Release 11)".
- [13] ETSI TS 136 141 (V11.8.0) (2014-04): "LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing (3GPP TS 36.141 version 11.8.0 Release 11)".
- [14] ETSI TS 125 141 (V11.8.0) (2014-04): "Universal Mobile Telecommunications System (UMTS); Base Station (BS) conformance testing (FDD) (3GPP TS 25.141 version 11.8.0 Release 11)".
- [15] ETSI TS 125 142 (V11.3.0) (2013-07): "Universal Mobile Telecommunications System (UMTS); Base Station (BS) conformance testing (TDD) (3GPP TS 25.142 version 11.3.0 Release 11)".
- [16] ETSI TS 151 021 (V11.4.0) (2013-10): "Digital cellular telecommunications system (Phase 2+); Base Station System (BSS) equipment specification; Radio aspects (3GPP TS 51.021 version 11.4.0 Release 11)".

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] ETSI EG 201 399: "Electromagnetic compatibility and Radio spectrum Matters (ERM); A guide to the production of Harmonized Standards for application under the R&TTE Directive".
- [i.4] Void.
- [i.5] 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.6] 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.
- [i.7] ETSI EN 301 908-1 (V6.2.1) (2013-04): "IMT cellular networks; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive; Part 1: Introduction and common requirements".
- [i.8] Recommendation ITU-R SM.329-12 (09/2012): "Unwanted emissions in the spurious domain".

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