



SLOVENSKI STANDARD

SIST EN 301 908-6 V3.2.1:2008

01-marec-2008

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Electromagnetic compatibility and Radio spectrum Matters (ERM) - Base Stations (BS),
Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks -
Part 6: Harmonized EN for IMT-2000, CDMA TDD (UTRA TDD) (UE) covering essential
requirements of article 3.2 of the R&TTE Directive
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Ta slovenski standard je istoveten z: EN 301 908-6 Version 3.2.1

ICS:

33.060.99	Druga oprema za radijske komunikacije	Other equipment for radiocommunications
33.100.01	Elektromagnetna združljivost na splošno	Electromagnetic compatibility in general

SIST EN 301 908-6 V3.2.1:2008 en

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ETSI EN 301 908-6 V3.2.1 (2007-09)

Harmonized European Standard (Telecommunications series)

**Electromagnetic compatibility
and Radio spectrum Matters (ERM);
Base Stations (BS), Repeaters and User Equipment (UE) for
IMT-2000 Third-Generation cellular networks;
Part 6: Harmonized EN for IMT-2000,
CDMA TDD (UTRA TDD) (UE)
covering essential requirements
of article 3.2 of the R&TTE Directive**

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Reference

REN/ERM-TFES-003-6

Keywords

3G, 3GPP, cellular, digital, IMT-2000, mobile,
radio, regulation, TDD, UMTS

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

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SIST EN 301 908-6 V3.2.1:2008

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Foreword

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

The present document has been produced by ETSI in response to a mandate from the European Commission issued under Council Directive 98/34/EC (as amended) laying down a procedure for the provision of information in the field of technical standards and regulations.

The present document is intended to become a Harmonized Standard, the reference of which will be published in the Official Journal of the European Communities referencing the Directive 1999/5/EC [1] 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 ("the R&TTE Directive").

The present document is part 6 of a multi-part deliverable covering the Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks, as identified below:

- SIST EN 301 908-6 V3.2.1:2008
<http://standards.etsi.org/standards/sist/301-908-6-v3-2-1-2008>
 8c6bRZ5160a/sist-en-301-908-6-v3-2-1-2008
- Part 1: "Harmonized EN for IMT-2000, introduction and common requirements, covering essential requirements of article 3.2 of the R&TTE Directive";
 - Part 2: "Harmonized EN for IMT-2000, CDMA Direct Spread (UTRA FDD) (UE) covering essential requirements of article 3.2 of the R&TTE Directive";
 - Part 3: "Harmonized EN for IMT-2000, CDMA Direct Spread (UTRA FDD) (BS) covering essential requirements of article 3.2 of the R&TTE Directive";
 - Part 4: "Harmonized EN for IMT-2000, CDMA Multi-Carrier (cdma2000) (UE) covering essential requirements of article 3.2 of the R&TTE Directive";
 - Part 5: "Harmonized EN for IMT-2000, CDMA Multi-Carrier (cdma2000) (BS) covering essential requirements of article 3.2 of the R&TTE Directive";
 - Part 6: "Harmonized EN for IMT-2000, CDMA TDD (UTRA TDD) (UE) covering essential requirements of article 3.2 of the R&TTE Directive";**
 - Part 7: "Harmonized EN for IMT-2000, CDMA TDD (UTRA TDD) (BS) covering essential requirements of article 3.2 of the R&TTE Directive";
 - 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: "Harmonized EN for IMT-2000 FDMA/TDMA (DECT) covering essential requirements of article 3.2 of the R&TTE Directive";
 - Part 11: "Harmonized EN for IMT-2000, CDMA Direct Spread (UTRA FDD) (Repeaters) covering essential requirements of article 3.2 of the R&TTE Directive".

Part 12: "Harmonized EN for IMT-2000, CDMA Multi-Carrier (cdma2000) (Repeaters) covering essential requirements of article 3.2 of the R&TTE Directive".

National transposition dates	
Date of adoption of this EN:	24 August 2007
Date of latest announcement of this EN (doa):	30 November 2007
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 May 2008
Date of withdrawal of any conflicting National Standard (dow):	31 May 2009

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. The modular structure is shown in EG 201 399.

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1 Scope

The present document applies to the following radio equipment type:

- User equipment for IMT-2000 CDMA TDD (UTRA TDD).

This radio equipment type is capable of operating in all or any part of the frequency bands given in table 1.

Table 1: IMT-2000 CDMA TDD service frequency bands

Operating band	Direction of transmission	IMT-2000 CDMA TDD service frequency bands
a	Transmit and Receive	1 900 MHz to 1 920 MHz
	Transmit and Receive	2 010 MHz to 2 025 MHz
d	Transmit and Receive	2 570 MHz to 2 620 MHz

IMT-2000 CDMA TDD (UTRA TDD) supports two options of the TDD mode with the chip rates of 3,84 Mcps and 1,28 Mcps. These two options are called the 3,84 Mcps TDD option and the 1,28 Mcps TDD option respectively. The requirements are listed in different subsections only if the parameters deviate. The present document covers requirements for 3,84 Mcps TDD option user equipment for Release 99, 4, 5, 6 and 7 and for 1,28 Mcps TDD option user equipment for Release 4, 5, 6 and 7.

The present document covers the provisions of Directive 1999/5/EC [1] (R&TTE Directive) 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 [1] may apply to equipment within the scope of the present document.

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

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2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version 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.

- [1] 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).
- [2] Void.
- [3] Void.
- [4] 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".

- [5] ETSI TS 125 102 (V7.3.0): "Universal Mobile Telecommunications System (UMTS); User Equipment (UE) radio transmission and reception (TDD) (3GPP TS 25.102 version 7.3.0 Release 7)".
- [6] ETSI TS 134 108 (V4.7.0): "Universal Mobile Telecommunications System (UMTS); Common test environments for User Equipment (UE) conformance testing (3GPP TS 34.108 version 4.7.0 Release 4)".
- [7] ETSI TS 134 109 (V4.5.0): "Universal Mobile Telecommunications System (UMTS); Terminal logical test interface; Special conformance testing functions (3GPP TS 34.109 version 4.5.0 Release 4)".
- [8] ETSI TS 134 122 (V5.3.0): "Universal Mobile Telecommunications System (UMTS); Terminal conformance specification, Radio transmission and reception (TDD) (3GPP TS 34.122 version 5.3.0 Release 5)".
- [9] Void.
- [10] Void.
- [11] Void.
- [12] IEC 60068-2-1: "Environmental testing - Part 2-1: Tests - Test A: Cold".
- [13] IEC 60068-2-2: "Environmental testing - Part 2-2: Tests - Test B: Dry heat".
- [14] ETSI EN 301 908-1(V3.2.1): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks; Part 1: Harmonized EN for IMT-2000, introduction and common requirements, covering essential requirements of article 3.2 of the R&TTE Directive".

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3 Definitions, symbols and abbreviations

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3.1 Definitions

For the purposes of the present document, the terms and definitions given in the R&TTE Directive [1] and the following apply:

chip rate: rate of "chips" (modulated symbols after spreading) per second

data rate: rate of the user information, which must be transmitted over the Air Interface

EXAMPLE: Output rate of the voice codec.

environmental profile: range of environmental conditions under which the equipment within the scope of the present document is required to comply with the provisions of the present document

maximum output power: measure of the maximum power supported by the UE (i.e. the actual power as would be measured assuming no measurement error) in a bandwidth of at least $(1 + \alpha)$ times the chip rate of the radio access mode. The period of measurement shall be a transmit timeslot excluding the guard period unless otherwise stated

mean power: when applied to a CDMA modulated signal this is the power (transmitted or received) in a bandwidth of at least $(1 + \alpha)$ times the chip rate of the radio access mode. The period of measurement shall be a transmit timeslot excluding the guard period unless otherwise stated

node B: logical node responsible for radio transmission/reception in one or more cells to/from the User Equipment

nominal maximum output power: nominal power defined by the UE power class

RRC filtered mean power: mean power as measured through a root raised cosine filter with roll-off factor α and a bandwidth equal to the chip rate of the radio access mode

3.2 Symbols

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

α	roll-off factor of the root-raised cosine filter, $\alpha = 0,22$
DPCH_Ec	average energy per PN chip for DPCH
$\frac{\text{DPCH_Ec}}{I_{\text{or}}}$	ratio of the average energy per PN chip of the DPCH to the total transmit power spectral density of the downlink at the BS antenna connector
$\frac{\Sigma \text{DPCH_Ec}}{I_{\text{or}}}$	ratio of the sum of DPCH_Ec for one service in case of multicode to the total transmit power spectral density of the downlink at the BS antenna connector
F_{uw}	Frequency of unwanted signal
NOTE:	This is specified in bracket in terms of an absolute frequency(s) or frequency offset from the assigned channel frequency.
I_{oac}	the power spectral density (integrated in a noise bandwidth equal to the chip rate and normalized to the chip rate) of the adjacent frequency channel as measured at the UE antenna connector
I_{or}	the total transmit power spectral density (integrated in a bandwidth of $(1+\alpha)$ times the chip rate and normalized to the chip rate) of the downlink signal at the BS antenna connector
\hat{I}_{or}	the received power spectral density of the downlink signal as measured at the UE antenna connector

3.3 Abbreviations

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

ACLR	Adjacent Channel Leakage power Ratio
ACS	Adjacent Channel Selectivity
BER	Bit Error Ratio
BS	Base Station
CDMA	Code Division Multiple Access
CRC	Cyclic Redundancy Check
CW	Continuous Wave (unmodulated signal)
DCH	Dedicated CHannel
DL	Down Link (forward link)
DPCH	Dedicated Physical CHannel
EMC	Electro-Magnetic Compatibility
EUT	Equipment Under Test
FDD	Frequency Division Duplexing
R&TTE	Radio and Telecommunications Terminal Equipment
RF	Radio Frequency
RRC	Root-Raised Cosine
SS	System Simulator
TH	Temperature High
TDD	Time Division Duplexing
TS	Time Slot
TL	Temperature Low
TTE	Telecommunications Terminal Equipment
TX	Transmitter
UARFCN	UTRA Absolute Radio Frequency Channel Number
UE	User Equipment
UL	Uplink (reverse link)
UTRA	Universal Terrestrial Radio Access
VH	Voltage High
VL	Voltage Low

4 Technical requirements specifications

4.1 Environmental profile

The technical requirements of the present document apply under the environmental profile for operation of the user equipment, which shall be declared by the supplier. The equipment shall comply with all the technical requirements of the present document at all times when operating within the boundary limits of the declared operational environmental profile.

For guidance on how a supplier can declare the environmental profile see annex B.

4.2 Conformance requirements

The requirements in the present document are based on the assumption that the operating band, band (a) and (d), are shared between systems of the IMT-2000 family or systems having compatible characteristics.

4.2.1 Introduction

To meet the essential requirement under article 3.2 of the R&TTE Directive [1] for IMT-2000 User Equipment eight essential parameters in addition to those in EN 301 908-1 [14] have been identified. Table 2 provides a cross reference between these eight essential parameters and the corresponding eleven technical requirements within the scope of the present document.

To fulfil an essential parameter the compliance with all the corresponding technical requirements in table 2 must be verified.

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Table 2: Cross reference

Essential parameter	Corresponding technical requirement
Spectrum emissions mask	4.2.2 Spectrum emissions mask
Conducted spurious emissions in active mode	4.2.12 Transmitter adjacent channel leakage power ratio
Accuracy of maximum output power	4.2.3 Transmitter spurious emissions
Prevention of harmful interference through control of power	4.2.4 Maximum output power
Conducted spurious emissions in idle mode	4.2.5 Minimum transmit output power
Impact of interference on receiver performance	4.2.6 Receiver spurious emissions
	4.2.7 Receiver blocking characteristics
	4.2.8 Receiver intermodulation characteristics
Receiver adjacent channel selectivity	4.2.9 Receiver spurious response
Control and Monitoring functions	4.2.10 Receiver adjacent channel selectivity
	4.2.11 Out-of-synchronization handling of output power

The technical requirements apply for declared operating bands.

4.2.2 Spectrum emission mask

4.2.2.1 Definition

The spectrum emission mask establishes out-of-band emission power limits of the user equipment transmitter. Out-of-band emissions are defined as unwanted emissions outside the channel bandwidth resulting from the modulation process and non-linearity in the transmitter but excluding spurious emissions.

4.2.2.1.1 3,84 Mcps TDD option

The spectrum emission mask of the UE applies to frequency offsets between 2,5 MHz and 12,5 MHz on both sides of the UE centre carrier frequency. The out-of-channel emission is specified as a power level relative to the RRC-filtered mean power of the UE carrier.