

## SLOVENSKI STANDARD

DSIST EN 301 908-2:2002

01-gYdhYa VYf-2002

9`Y\_Hfca U[ bYhbUnXfi ý`lj cghifØ A7Ł]b`nUXYj Yj `nj Yn]`n`fUX]`g\_Ja `gdY\_Hfca `fØFAŁ!  
6 UnbYdcgħUYY`fØ GŁ]b`i dcfUVb]y\_UcdfYa Ufl 9Ł`nUWY] bc`ca fYŷ`Y=A H!&\$\$`fYhY  
[ YbYfUWY`Y!`&"XY. `<Ufa cb]n]fUb]`9B`nU=A H!&\$\$ž78 A5 `í 8 ]fYWhGdfYUXi `fK]fY\_HbU  
fUhdfýYbcgħLčfl HF5 : 88 Ł`fl 9Łz\_`nU`Ya UV]ghj YbYnU Hyj Y `YbU' "& XjfY\_Hj Y  
F/ HH9

Electromagnetic compatibility and Radio spectrum Matters (ERM); Base Stations (BS) and User Equipment (UE) for IMT-2000 Third-Generation cellular networks; 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

**Ta slovenski standard je istoveten z: EN 301 908-2 Version 1.1.1**

**ICS:**

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

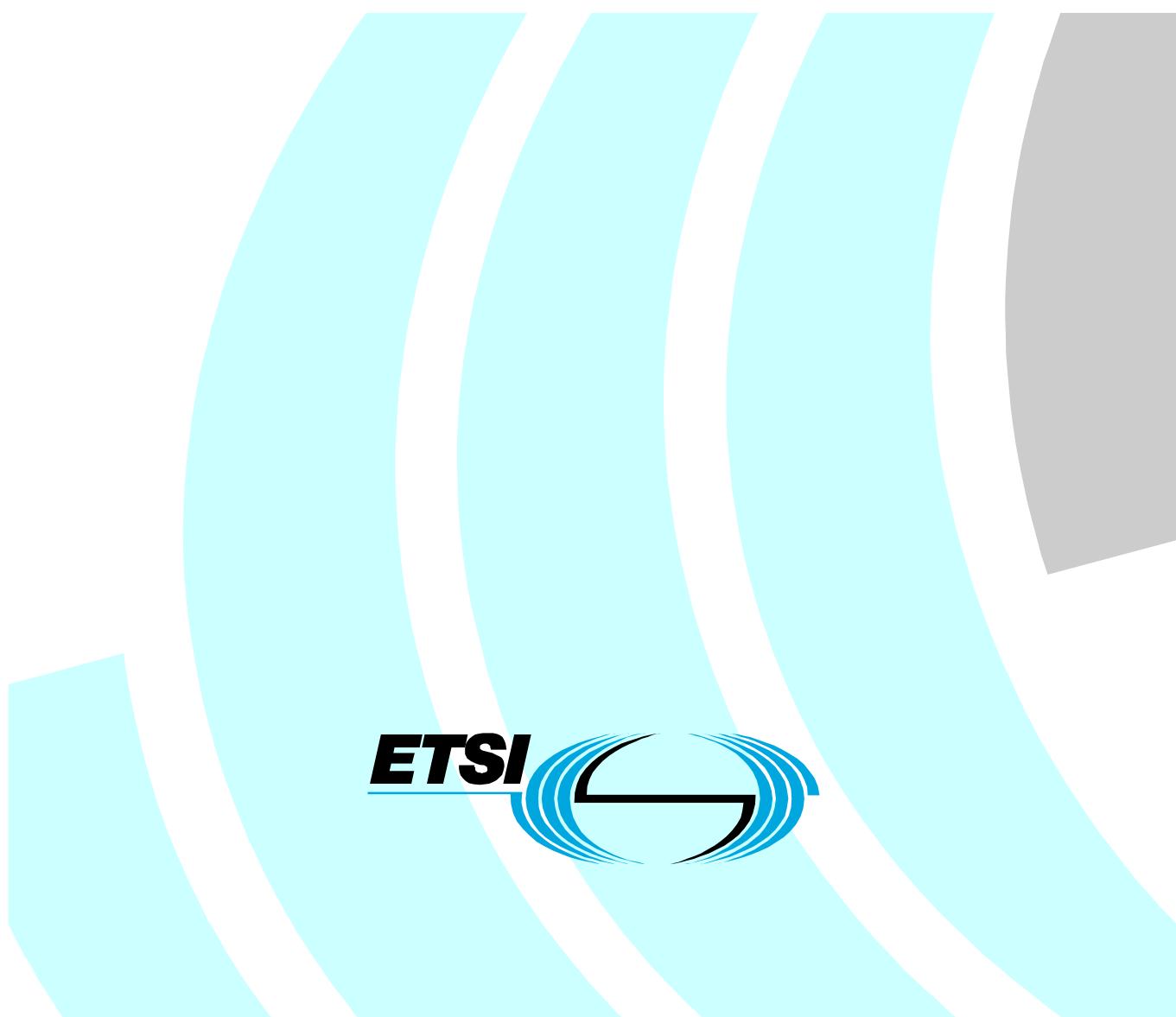
**DGIST EN 301 908-2:2002****en**



# ETSI EN 301 908-2 V1.1.1 (2002-01)

*Candidate Harmonized European Standard (Telecommunications series)*

**Electromagnetic compatibility  
and Radio spectrum Matters (ERM);  
Base Stations (BS) and User Equipment (UE) for  
IMT-2000 Third-Generation cellular networks;  
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**



---

Reference

DEN/ERM-TFES-001-2

---

Keywords3G, 3GPP, cellular, digital, IMT-2000, mobile,  
radio, regulation, UMTS, WCDMA***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

---

***Important notice***

Individual copies of the present document can be downloaded from:  
<http://www.etsi.org>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status.  
Information on the current status of this and other ETSI documents is available at  
<http://portal.etsi.org/tb/status/status.asp>

If you find errors in the present document, send your comment to:  
[editor@etsi.fr](mailto:editor@etsi.fr)

---

***Copyright Notification***

No part may be reproduced except as authorized by written permission.  
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2002.  
All rights reserved.

---

## Contents

Intellectual Property Rights .....	6
Foreword.....	6
Introduction .....	8
1    Scope .....	10
2    References .....	10
3    Definitions and abbreviations.....	11
3.1    Definitions.....	11
3.2    Abbreviations .....	11
4    Technical requirements specifications .....	12
4.1    Environmental profile.....	12
4.2    Conformance requirements .....	12
4.2.1    Introduction.....	12
4.2.2    Transmitter maximum output power.....	12
4.2.2.1    Definition .....	12
4.2.2.2    Limits .....	13
4.2.2.3    Conformance .....	13
4.2.3    Transmitter spectrum emission mask.....	13
4.2.3.1    Definition .....	13
4.2.3.2    Limits .....	13
4.2.3.3    Conformance .....	13
4.2.4    Transmitter spurious emissions.....	13
4.2.4.1    Definition .....	13
4.2.4.2    Limits .....	14
4.2.4.3    Conformance .....	14
4.2.5    Transmitter minimum output power .....	14
4.2.5.1    Definition .....	14
4.2.5.2    Limits .....	14
4.2.5.3    Conformance .....	14
4.2.6    Receiver adjacent channel selectivity .....	14
4.2.6.1    Definition .....	14
4.2.6.2    Limits .....	15
4.2.6.3    Conformance .....	15
4.2.7    Receiver blocking characteristics .....	15
4.2.7.1    Definition .....	15
4.2.7.2    Limits .....	15
4.2.7.3    Conformance .....	16
4.2.8    Receiver spurious response.....	16
4.2.8.1    Definition .....	16
4.2.8.2    Limits .....	16
4.2.8.3    Conformance .....	16
4.2.9    Receiver Intermodulation Characteristics .....	16
4.2.9.1    Definition .....	16
4.2.9.2    Limits .....	17
4.2.9.3    Conformance .....	17
4.2.10    Receiver spurious emissions .....	17
4.2.10.1    Definition .....	17
4.2.10.2    Limits .....	17
4.2.10.3    Conformance .....	17
4.2.11    Out-of-synchronization handling of output power.....	18
4.2.11.1    Definition .....	18
4.2.11.2    Limits .....	18
4.2.11.3    Conformance .....	19
5    Testing for compliance with technical requirements.....	19

5.1	Environmental conditions for testing .....	19
5.2	Interpretation of the measurement results .....	19
5.3	Essential radio test suites.....	21
5.3.1	Transmitter maximum output power.....	21
5.3.1.1	Method of test .....	21
5.3.1.1.1	Initial conditions.....	21
5.3.1.1.2	Procedure.....	21
5.3.1.2	Test requirements .....	21
5.3.2	Transmitter spectrum emission mask.....	21
5.3.2.1	Method of test .....	21
5.3.2.1.1	Initial conditions.....	21
5.3.2.1.2	Procedure.....	21
5.3.2.2	Test requirements .....	22
5.3.3	Transmitter spurious emissions.....	22
5.3.3.1	Method of test .....	22
5.3.3.1.1	Initial conditions.....	22
5.3.3.1.2	Procedure.....	22
5.3.3.2	Test requirements .....	22
5.3.4	Transmitter minimum output power .....	22
5.3.4.1	Method of test .....	22
5.3.4.1.1	Initial conditions.....	22
5.3.4.1.2	Procedure.....	22
5.3.4.2	Test requirements .....	23
5.3.5	Receiver adjacent channel selectivity (ACS).....	23
5.3.5.1	Method of test .....	23
5.3.5.1.1	Initial conditions.....	23
5.3.5.1.2	Procedure.....	23
5.3.5.2	Test requirements .....	23
5.3.6	Receiver blocking characteristics .....	23
5.3.6.1	Method of test .....	23
5.3.6.1.1	Initial requirements.....	23
5.3.6.1.2	Procedure.....	23
5.3.6.2	Test requirements .....	24
5.3.7	Receiver spurious response .....	24
5.3.7.1	Method of test .....	24
5.3.7.1.1	Initial conditions.....	24
5.3.7.1.2	Procedure.....	24
5.3.7.2	Test requirements .....	24
5.3.8	Receiver Intermodulation characteristics .....	24
5.3.8.1	Method of test .....	24
5.3.8.1.1	Initial conditions.....	24
5.3.8.1.2	Procedure.....	24
5.3.8.2	Test requirements .....	25
5.3.9	Receiver spurious emissions .....	25
5.3.9.1	Method of test .....	25
5.3.9.1.1	Initial conditions.....	25
5.3.9.1.2	Procedure.....	25
5.3.9.2	Test requirements .....	25
5.3.10	Out-of-synchronization handling of output power.....	25
5.3.10.1	Method of test .....	25
5.3.10.1.1	Initial conditions.....	25
5.3.10.1.2	Procedure.....	26
5.3.10.2	Test requirements .....	26
<b>Annex A (normative):</b>	<b>The EN Requirements Table (EN-RT) .....</b>	<b>27</b>
<b>Annex B (informative):</b>	<b>Environmental profile .....</b>	<b>29</b>
B.1	General .....	29
B.1.1	Introduction .....	29
B.1.2	Temperature .....	29
B.1.3	Voltage .....	29

B.1.4	Test environment .....	29
<b>Annex C (informative):</b>	<b>The EN title in the official languages .....</b>	<b>30</b>
<b>Annex D (informative):</b>	<b>Bibliography.....</b>	<b>31</b>
History .....	32	

---

## Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: *"Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards"*, which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<http://webapp.etsi.org/IPR/home.asp>).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

---

## Foreword

This Candidate 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 2 of a multi-part deliverable covering the Base Stations (BS) and User Equipment (UE) for IMT-2000 Third-Generation cellular networks, as identified below:

- 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".