



SLOVENSKI STANDARD
SIST EN 301 908-10 V2.1.1:2004
01-julij-2004

9`Y_fca U[bYfbUnXfi y`fj cghf9 A7L]b`nUXYj Yj`nj Ynj`n'fUX]`g_ ja `gdY_fca `f9FAŁ!
6 UnbYdchgUWYf6 GŁ]b`i dcfUVb]y_UcdfYa Ufl 9ŁnUWY] bUca fYy`UfYrY
[YbYfUWY`A H!&\$\$\$`!`%\$`"XY. < Ufa cb]n]fUb]9B`nU`A H!&\$\$\$ž: 8 A5 #H8 A5 `fB 97 HŁž
_]`nUYa UV]ghj YbY`nU H]j Y `YbU' "&X]fY_hj YF/ HH9

Electromagnetic compatibility and Radio spectrum Matters (ERM); Base Stations (BS),
Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks;
Part 10: Harmonized EN for IMT-2000, FDMA/TDMA (DECT) covering essential
requirements of article 32 of the R&TTE Directive

(standards.iteh.ai)

<https://standards.iteh.ai/catalog/standards/sist/d319b8bb-d4ae-48dc-8d51-e8447627be12/sist-en-301-908-10-v2-1-1-2004>

Ta slovenski standard je istoveten z: EN 301 908-10 Version 2.1.1

ICS:

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

SIST EN 301 908-10 V2.1.1:2004 en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 301 908-10 V2.1.1:2004](https://standards.iteh.ai/catalog/standards/sist/d319b8bb-d4ae-48dc-8d51-e8447627be12/sist-en-301-908-10-v2-1-1-2004)

<https://standards.iteh.ai/catalog/standards/sist/d319b8bb-d4ae-48dc-8d51-e8447627be12/sist-en-301-908-10-v2-1-1-2004>

ETSI EN 301 908-10 V2.1.1 (2003-12)

Candidate 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 10: Harmonized EN for IMT-2000,
FDMA/TDMA (DECT)
covering essential requirements
of article 3.2 of the R&TTE Directive**

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 301 908-10 V2.1.1:2004](https://standards.iteh.ai/catalog/standards/sist/d319b8bb-d4ae-48dc-8d51-e8447627be12/sist-en-301-908-10-v2-1-1-2004)

<https://standards.iteh.ai/catalog/standards/sist/d319b8bb-d4ae-48dc-8d51-e8447627be12/sist-en-301-908-10-v2-1-1-2004>



Reference

REN/DECT-000217

Keywords

3G, DECT, digital, generic, IMT-2000, radio,
regulation, testing

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

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 301 908-10 V2.1.1:2004

<https://standards.iteh.ai/catalog/standards/sist/d319b8bb-d4ae-48dc-8d51-e8447627bc22/EN-301-908-10-v2-1-1-2004>

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.org

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 2003.
All rights reserved.

DECT™, **PLUGTESTS™** and **UMTS™** are Trade Marks of ETSI registered for the benefit of its Members.
TIPHON™ and the **TIPHON logo** are Trade Marks currently being registered by ETSI for the benefit of its Members.
3GPP™ is a Trade Mark of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

Contents

Intellectual Property Rights	10
Foreword.....	10
Introduction	12
1 Scope	14
2 References	14
3 Definitions, symbols and abbreviations	15
3.1 Definitions	15
3.2 Symbols.....	18
3.3 Abbreviations	18
4 Technical requirements specifications	19
4.1 Environmental profile.....	19
4.2 Document layout	19
4.2.1 Test suites	19
4.2.2 Test groups.....	19
4.2.3 Test cases.....	20
4.3 Applicant's declaration	20
4.4 Applicability of essential test suites	20
4.4.1 Introduction.....	20
4.4.2 Equipment that includes only a DECT RF receiver.....	21
4.4.3 Equipment that includes a radio transmitter	21
4.4.4 CTAs.....	21
4.4.5 Equipment with a synchronization port	21
4.4.6 Equipment incorporating the IPEI (PPs only).....	21
4.4.7 All FP equipment.....	21
4.4.8 Equipment with combined FT and PT functionality.....	21
4.4.8.1 Introduction.....	21
4.4.8.2 Wireless Relay Station	21
4.4.8.3 Direct PP to PP communication	22
4.4.8.4 Distributed communications	22
4.4.9 Provision of 4 Mbit/s services Equipment that is capable of using 4-level, 8-level, 16 level and/or 64-level modulation	22
4.4.10 Dual mode handsets	22
4.5 Conformance requirements	22
4.5.1 General.....	22
4.5.2 Accuracy and stability of RF carriers	23
4.5.2.1 Definition of nominal position of RF carriers	23
4.5.2.2 Limits	23
4.5.2.3 Conformance.....	23
4.5.3 Accuracy and stability of timing parameters	23
4.5.3.1 Definitions.....	23
4.5.3.1.1 Slot structure.....	23
4.5.3.1.2 Definition of the position of p0	24
4.5.3.2 Limits	24
4.5.3.2.1 Reference timer accuracy and stability	24
4.5.3.2.2 RFP transmission jitter	25
4.5.3.2.3 PP reference timer synchronization	25
4.5.3.3 Conformance.....	25
4.5.4 Transmission burst.....	26
4.5.4.1 Definitions.....	26
4.5.4.1.1 Introduction	26
4.5.4.1.2 Physical packets.....	26
4.5.4.1.3 Transmitted power.....	26
4.5.4.1.4 Normal Transmitted Power (NTP)	26

4.5.4.1.5	Transmitter attack time	26
4.5.4.1.6	Transmitter release time	26
4.5.4.1.7	Minimum power	26
4.5.4.1.8	Maximum power	27
4.5.4.1.9	Maintenance of transmission after packet end.....	27
4.5.4.1.10	Transmitter idle power output	27
4.5.4.2	Limits	27
4.5.4.2.1	Transmitter attack time.....	27
4.5.4.2.2	Transmitter release time	27
4.5.4.2.3	Minimum power	27
4.5.4.2.4	Maximum power	27
4.5.4.2.5	Maintenance of transmission after packet end.....	27
4.5.4.2.6	Transmitter idle power output	27
4.5.4.3	Conformance.....	27
4.5.5	Transmitted power	28
4.5.5.1	Definitions.....	28
4.5.5.1.1	PP and RFP with an integral antenna	28
4.5.5.1.2	PP and RFP with external connections for all antennas	28
4.5.5.1.3	PP and RFP with both integral and external antennas	28
4.5.5.2	Limits	28
4.5.5.3	Conformance.....	28
4.5.6	RF carrier modulation.....	28
4.5.6.1	Definition	28
4.5.6.2	Limits	29
4.5.6.3	Conformance.....	29
4.5.7	Unwanted RF power radiation.....	29
4.5.7.1	General	29
4.5.7.2	Emissions due to modulation	29
4.5.7.2.1	Definition.....	29
4.5.7.2.2	Limits	30
4.5.7.2.3	Conformance	30
4.5.7.3	Emissions due to transmitter transients.....	30
4.5.7.3.1	Definition.....	30
4.5.7.3.2	Limits	30
4.5.7.3.3	Conformance	30
4.5.7.4	Emissions due to intermodulation	31
4.5.7.4.1	Definition.....	31
4.5.7.4.2	Limits	31
4.5.7.4.3	Conformance	31
4.5.7.5	Spurious emissions when allocated a transmit channel.....	31
4.5.7.5.1	Definition.....	31
4.5.7.5.2	Limits	31
4.5.7.5.3	Conformance	31
4.5.8	Radio receiver testing	31
4.5.8.1	Radio receiver sensitivity	31
4.5.8.1.1	Definition.....	31
4.5.8.1.2	Limits	32
4.5.8.1.3	Conformance	32
4.5.8.2	Radio receiver reference BER and FER.....	32
4.5.8.2.1	Definition.....	32
4.5.8.2.2	Limits	32
4.5.8.2.3	Conformance	32
4.5.8.3	Radio receiver interference performance	32
4.5.8.3.1	Definition.....	32
4.5.8.3.2	Limits	33
4.5.8.3.3	Conformance	33
4.5.8.4	Radio receiver blocking case 1: owing to signals occurring at the same time but on other frequencies	33
4.5.8.4.1	Definition.....	33
4.5.8.4.2	Limits	33
4.5.8.4.3	Conformance	34
4.5.8.5	Radio receiver blocking case 2: owing to signals occurring at a different time.....	34

4.5.8.5.1	Definition.....	34
4.5.8.5.2	Limits	34
4.5.8.5.3	Conformance	34
4.5.8.6	Receiver intermodulation performance	34
4.5.8.6.1	Definition.....	34
4.5.8.6.2	Limits	34
4.5.8.6.3	Conformance	34
4.5.8.7	Spurious emissions when the PP has no allocated transmit channel	34
4.5.8.7.1	Definition.....	34
4.5.8.7.2	Limits	35
4.5.8.7.3	Conformance	35
4.5.9	Intersystem synchronization (FP only)	35
4.5.9.1	Description	35
4.5.9.2	Wired synchronization ports	36
4.5.9.2.1	FP as a master.....	36
4.5.9.2.2	FP as a slave	36
4.5.9.3	GPS synchronization.....	36
4.5.9.3.1	FP with integrated Global Positioning System (GPS) synchronization.....	36
4.5.9.3.2	External GPS synchronization device	37
4.5.10	Equipment identity testing.....	37
4.5.10.1	PP.....	37
4.5.10.2	FP.....	38
4.5.11	Efficient use of the radio spectrum	38
4.5.11.1	Channel selection	38
4.5.11.2	Channel confirmation.....	38
4.5.11.2.1	For the PT.....	38
4.5.11.2.2	For the FT.....	38
4.5.11.3	Channel release	39
4.5.11.4	General.....	39
4.5.12	WRS testing.....	39
4.5.12.1	General requirements	39
4.5.12.2	Testing as a PP.....	39
4.5.12.3	Testing as an RFP.....	40
4.5.12.4	Additional requirements.....	40
4.5.12.5	Conformance.....	44
4.5.13	Requirements for PPs with direct PP to PP communication mode	44
4.5.13.1	General requirements	44
4.5.13.2	Setting the EUT in direct communications mode.....	44
4.5.13.3	When the EUT has not initiated a call.....	45
4.5.13.4	When the EUT initiates a call	45
4.5.13.5	Conformance.....	45
4.5.14	Distributed communications	45
4.5.14.1	General requirements	45
4.5.14.2	Testing as a PP.....	46
4.5.14.3	Testing as an RFP	46
4.5.14.4	Conformance.....	46
4.5.15	Higher level modulation options.....	47
4.5.15.1	Requirements	47
4.5.15.2	Conformance.....	47
5	Testing for compliance with technical requirements.....	48
5.1	General test requirements	48
5.1.1	Test philosophy.....	48
5.1.2	Standard position	49
5.1.3	Test antenna of the LT	49
5.1.4	Substitution antenna.....	49
5.1.5	Test fixture.....	50
5.1.5.1	Description	50
5.1.5.2	Calibration of the test fixture for the measurement of transmitter characteristics.....	50
5.1.5.3	Calibration of the test fixture for the measurement of receiver characteristics	51
5.1.5.4	Mode of use.....	51
5.1.6	Equipment with a temporary or internal permanent antenna connector.....	51

5.1.6.1	General	51
5.1.6.2	Equipment with a temporary antenna connector	52
5.1.7	Lower Tester (LT)	52
5.1.7.1	Description	52
5.1.7.2	Connections between the EUT and the LT	52
5.1.7.3	Functions and abilities	53
5.1.7.4	Signal generation uncertainty	53
5.1.7.5	Modulated DECT-like carrier	53
5.1.7.6	CW interferers	53
5.1.7.7	DECT RF signal	53
5.1.7.8	Test modulation signals	54
5.1.8	Upper Tester (UT)	54
5.1.8.1	Description of the UT	54
5.1.8.2	The test standby mode	54
5.1.8.3	Test messages	54
5.1.8.4	Dummy setting when EUT is a RFP and it is in Test Standby Mode (TSM)	55
5.1.9	Description of the Lower Tester FT and PT	55
5.1.10	General test methods	55
5.1.10.1	General	55
5.1.10.2	Sampling the RF signal	55
5.1.10.2.1	Introduction	55
5.1.10.2.2	Sampling method	55
5.1.10.3	Determining the reference position	56
5.1.10.3.1	Case 1: EUTs that cannot transmit	56
5.1.10.3.2	Case 2: EUTs that can transmit	56
5.1.10.4	Bit error rate (BER) and Frame Error Ratio (FER) measurements	56
5.1.11	Test setup	56
5.1.11.1	General	56
5.1.11.2	Test setup 1	56
5.1.11.3	Test setup 2	57
5.1.11.4	Test setup 3	57
5.1.11.5	Test setup 4	58
5.1.11.6	Test setup 5	58
5.1.12	Test arrangements for intermodulation measurements	59
5.1.12.1	PT to PT arrangement	59
5.1.12.2	FT to FT arrangement	59
5.1.12.3	FT to PT arrangement	60
5.1.13	Test conditions, power supply and ambient temperatures	60
5.1.13.1	General	60
5.1.13.2	Nominal test conditions	61
5.1.13.3	Extreme test conditions	61
5.1.13.4	Test power source - general requirements	62
5.1.13.5	Nominal test power source	62
5.1.13.5.1	Mains voltage	62
5.1.13.5.2	Regulated lead acid battery power sources	62
5.1.13.5.3	Nickel cadmium battery	62
5.1.13.5.4	Other power sources	63
5.1.13.6	Extreme test power source	63
5.1.13.6.1	Mains voltage	63
5.1.13.6.2	Regulated lead acid battery power sources	63
5.1.13.6.3	Nickel cadmium battery	63
5.1.13.6.4	Other power sources	63
5.1.13.7	Testing of host connected equipment and plug-in cards	63
5.1.13.7.1	Permitted approaches	63
5.1.13.7.2	Alternative A: composite equipment	63
5.1.13.7.3	Alternative B: use of a test jig and three hosts	64
5.2	Interpretation of the measurement results	64
5.3	Essential radio test suites	65
5.3.1	General	65
5.3.2	Accuracy and stability of RF carriers	65
5.3.2.1	Test environment	65
5.3.2.2	Method of measurement	65

5.3.2.3	Verdict criteria when the EUT is a RFP	66
5.3.2.4	Verdict criteria when the EUT is a PP	66
5.3.3	Accuracy and stability of timing parameters	66
5.3.3.1	Measurement of packet timing jitter	66
5.3.3.1.1	Test environment	66
5.3.3.1.2	Method of measurement	67
5.3.3.1.3	Verdict criteria	67
5.3.3.2	Measurement of the reference timing accuracy of a RFP	67
5.3.3.2.1	Test environment	67
5.3.3.2.2	Method of measurement	67
5.3.3.2.3	Verdict criteria	68
5.3.3.3	Measurement of packet transmission accuracy of a PP	68
5.3.3.3.1	Test environment	68
5.3.3.3.2	Method of measurement	68
5.3.3.3.3	Verdict criteria	69
5.3.4	Transmission burst	69
5.3.4.1	Test environment	69
5.3.4.2	Method of measurement	69
5.3.4.3	Verdict criteria	70
5.3.5	Transmitted power	70
5.3.5.1	PP and RFP with an integral antenna	70
5.3.5.1.1	Test environment	70
5.3.5.1.2	Method of measurement	70
5.3.5.1.3	Verdict criteria for all EUTs	71
5.3.5.2	PP and RFP with external antenna connection(s)	71
5.3.5.2.1	Test environment	71
5.3.5.2.2	Method of measurement	72
5.3.5.2.3	Verdict criteria for all EUTs	72
5.3.6	RF carrier modulation	72
5.3.6.1	Test environment	72
5.3.6.2	Method of measurement, parts 1 and 2	72
5.3.6.2.1	Introduction	72
5.3.6.2.2	Part 1	73
5.3.6.2.3	Part 2	73
5.3.6.3	Method of measurement, parts 3 and 4	73
5.3.6.3.1	General	73
5.3.6.3.2	Part 3	74
5.3.6.3.3	Part 4	74
5.3.6.4	Verdict criteria for Part 1	74
5.3.6.5	Verdict criteria for Part 2	74
5.3.6.6	Verdict criteria for Part 3	75
5.3.6.7	Verdict criteria for Part 4	75
5.3.7	Unwanted RF power radiation	76
5.3.7.1	General test conditions	76
5.3.7.2	Emissions due to modulation	76
5.3.7.2.1	Test environment	76
5.3.7.2.2	Method of measurement	76
5.3.7.2.3	Verdict criteria	77
5.3.7.3	Emissions due to transmitter transients	77
5.3.7.3.1	Test environment	77
5.3.7.3.2	Method of measurement	78
5.3.7.3.3	Verdict criteria	78
5.3.7.4	Emissions due to intermodulation	79
5.3.7.4.1	Test environment	79
5.3.7.4.2	Method of measurement	79
5.3.7.4.3	Verdict criteria	80
5.3.7.5	Spurious emissions when allocated a transmit channel	80
5.3.7.5.1	Radiated emissions	80
5.3.7.5.2	Conducted spurious emissions	81
5.3.8	Radio receiver testing	82
5.3.8.1	Radio receiver sensitivity	82
5.3.8.1.1	Test environment	82

5.3.8.1.2	Method of measurement	82
5.3.8.1.3	Verdict criteria.....	82
5.3.8.2	Radio receiver reference BER and FER.....	82
5.3.8.2.1	Test environment.....	82
5.3.8.2.2	Method of measurement	83
5.3.8.2.3	Verdict criteria.....	83
5.3.8.3	Radio receiver interference performance	83
5.3.8.3.1	Test environment.....	83
5.3.8.3.2	Method of measurement	83
5.3.8.3.3	Verdict criteria.....	84
5.3.8.4	Radio receiver blocking case 1: owing to signals occurring at the same time but on other frequencies	84
5.3.8.4.1	Test environment.....	84
5.3.8.4.2	Method of measurement	84
5.3.8.4.3	Verdict criteria.....	85
5.3.8.5	Radio receiver blocking case 2: owing to signals occurring at a different time.....	86
5.3.8.5.1	Test environment.....	86
5.3.8.5.2	Method of measurement	86
5.3.8.5.3	Verdict criteria.....	86
5.3.8.6	Receiver intermodulation performance.....	87
5.3.8.6.1	Test environment.....	87
5.3.8.6.2	Method of measurement	87
5.3.8.6.3	Verdict criteria.....	87
5.3.8.7	Spurious emissions when the PP has no allocated transmit channel.....	87
5.3.8.7.1	Test environment.....	87
5.3.8.7.2	Method of measurement	88
5.3.8.7.3	Verdict criteria (outside the DECT band).....	88
5.3.8.7.4	Verdict criteria (inside the DECT band).....	88
5.3.9	Intersystem synchronization (FP only).....	88
5.3.9.1	Test environment.....	88
5.3.9.2	Wired synchronization ports	89
5.3.9.2.1	FP as a master.....	89
5.3.9.2.2	FP as a slave.....	90
5.3.9.3	GPS synchronization.....	91
5.3.9.3.1	FP with integrated Global Positioning System (GPS) synchronization.....	91
5.3.9.3.2	External GPS synchronization device	91
5.3.10	Equipment identity testing	92
5.3.11	Efficient use of the radio spectrum	92
5.3.12	WRS testing	92
5.3.12.1	General.....	92
5.3.12.2	Testing as a PP.....	92
5.3.12.3	Testing as an RFP	93
5.3.12.4	Additional requirements.....	93
5.3.13	Requirements for PPs with direct PP to PP communication mode	93
5.3.13.1	General.....	93
5.3.13.2	Setting the EUT in direct communications mode.....	93
5.3.13.3	When the EUT has not initiated a call.....	94
5.3.13.4	When the EUT initiates a call	94
5.3.13.5	Applicants declarations	94
5.3.14	Distributed Communications	94
5.3.14.1	General.....	94
5.3.14.2	Testing as a PP.....	95
5.3.14.3	Testing as an RFP	95
5.3.14.4	Applicants declaration.....	95
5.3.15	Higher level modulation options.....	95
5.3.15.1	General.....	95
5.3.15.2	Activation of higher level modulations when EUT is in Test Standby Mode.....	96
5.3.15.3	Applicants declaration.....	96

Annex A (normative): The EN Requirements Table (EN-RT).....97

Annex B (normative): Procedures for test fixture calibration99

B.1	Calibration of test fixture for receiver measurements	99
B.1.1	Procedure.....	99
B.1.2	Method of measurement	99
Annex C (normative): Test Support Profile (TSP).....		101
C.1	Introduction	101
C.2	Standardized symbols for the status column	101
C.3	Capabilities of PP (EUT) under test	102
C.3.1	Services	102
C.3.2	Messages	102
C.3.3	Message parameters	104
C.3.4	Procedure support.....	105
C.3.5	CSF multiplexing functions.....	106
C.3.6	Timer and counter support.....	106
C.4	Capabilities of FP (EUT) under test	107
C.4.1	Services	107
C.4.2	Messages	107
C.4.3	Message parameters	109
C.4.4	Procedure support.....	110
C.4.5	CSF multiplexing functions.....	111
C.4.6	Timer and counter support.....	111
Annex D (normative): Measurement of BER and FER		112
Annex E (informative): Procedures for the measurement of synchronization loss at the EUT by the LT.....		113
E.1	Description	113
E.2	Method	113
Annex F (informative): DECT carrier numbers and carrier positions in the range 1 880 MHz to 2 025 MHz.....		114
F.1	Introduction	114
F.2	1 880 MHz to 1 978 MHz and 2 010 MHz to 2 025 MHz RF band 00001.....	115
F.3	1 880 MHz to 1 925 MHz and 2 010 MHz to 2 025 MHz RF band 00010.....	116
Annex G (informative): Bibliography.....		117
Annex H (informative): The EN title in the official languages		118
History		119

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 Project Digital Enhanced Cordless Telecommunications (DECT).

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 10 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 301 908-10 V2.1.1:2004
<https://standards.iteh.ai/catalog/standards/sist/301-908-10-v2-1-1-2004>
 64476276c12sist-en-301-908-10-v2-1-1-2004
- 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 and Repeaters) 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".

Technical specifications relevant to Directive 1999/5/EC [1] are given in annex A.

National transposition dates	
Date of adoption of this EN:	12 December 2003
Date of latest announcement of this EN (doa):	31 March 2004
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	30 September 2004
Date of withdrawal of any conflicting National Standard (dow):	30 September 2005

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 301 908-10 V2.1.1:2004](https://standards.iteh.ai/catalog/standards/sist/d319b8bb-d4ae-48dc-8d51-e8447627be12/sist-en-301-908-10-v2-1-1-2004)

<https://standards.iteh.ai/catalog/standards/sist/d319b8bb-d4ae-48dc-8d51-e8447627be12/sist-en-301-908-10-v2-1-1-2004>

Introduction

The present document is part of a set of standards designed to fit in a modular structure to cover all radio and telecommunications terminal equipment under the R&TTE Directive [1]. Each standard is a module in the structure. The modular structure is shown in figure 1.

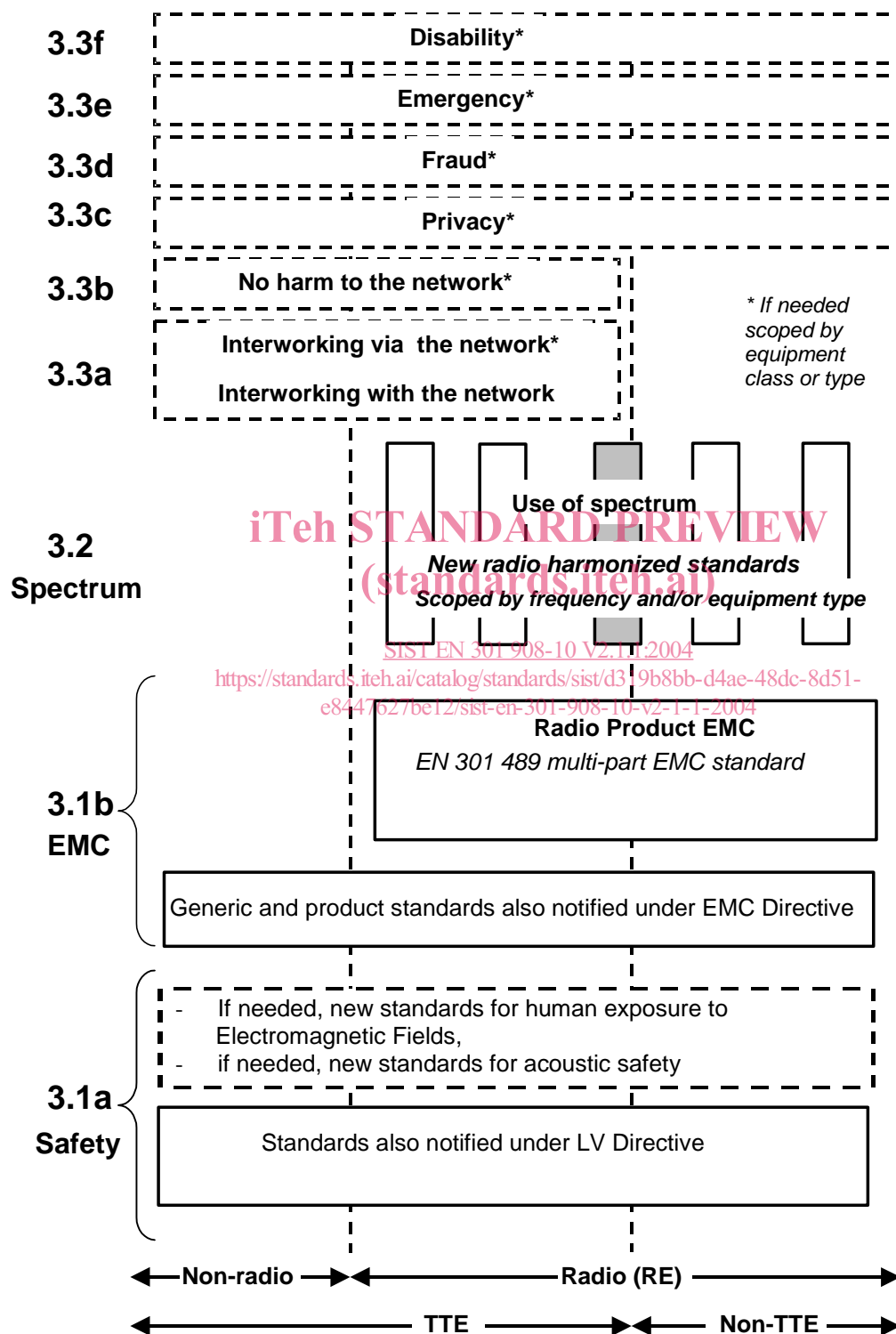


Figure 1: Modular structure for the various standards used under the R&TTE Directive

The left hand edge of the figure 1 shows the different clauses of article 3 of the R&TTE Directive [1].

For article 3.3 various horizontal boxes are shown. Dotted lines indicate that at the time of publication of the present document essential requirements in these areas have to be adopted by the Commission. If such essential requirements are adopted, and as far and as long as they are applicable, they will justify individual standards whose scope is likely to be specified by function or interface type.

The vertical boxes show the standards under article 3.2 for the use of the radio spectrum by radio equipment. The scopes of these standards are specified either by frequency (normally in the case where frequency bands are harmonized) or by radio equipment type.

For article 3.1b figure 1 shows EN 301 489, the multi-part product EMC standard for radio used under the EMC Directive [2].

For article 3.1a figure 1 shows the existing safety standards currently used under the LV Directive [3] and new standards covering human exposure to electromagnetic fields. New standards covering acoustic safety may also be required.

The bottom of figure 1 shows the relationship of the standards to radio equipment and telecommunications terminal equipment. A particular equipment may be radio equipment, telecommunications terminal equipment or both. A radio spectrum standard will apply if it is radio equipment. An article 3.3 standard will apply as well only if the relevant essential requirement under the R&TTE Directive [1] is adopted by the Commission and if the equipment in question is covered by the scope of the corresponding standard. Thus, depending on the nature of the equipment, the essential requirements under the R&TTE Directive [1] may be covered in a set of standards.

The modularity principle has been taken because:

- it minimizes the number of standards needed. Because equipment may, in fact, have multiple interfaces and functions it is not practicable to produce a single standard for each possible combination of functions that may occur in an equipment;
- it provides scope for standards to be added:
 - under article 3.2 when new frequency bands are agreed; or
 - under article 3.3 should the Commission take the necessary decision without requiring alteration of standards that are already published;
- it clarifies, simplifies and promotes the usage of Harmonized Standards as the relevant means of conformity assessment.

The product specifications upon which this present multi-part deliverable is based differ in presentation, and this is reflected in the present document.