



SLOVENSKI STANDARD
oSIST prEN 301 908-10 V4.3.0:2021

01-oktober-2021

**Celična omrežja IMT - Harmonizirani standard za dostop do radijskega spektra -
10. del: Bazne postaje (BS), ponavljalniki (repetitorji) in uporabniška oprema (UE)
za celična omrežja tretje generacije IMT-2000**

IMT cellular networks - Harmonised Standard for access to radio spectrum - Part 10:
Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation
cellular networks

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[oSIST prEN 301 908-10 V4.3.0:2021](https://standards.iteh.ai/catalog/standards/sist/97db6c7b-e9f8-4b20-90d5-328289a9865f/osist-pr-en-301-908-10-v4-3-0-2021)

[https://standards.iteh.ai/catalog/standards/sist/97db6c7b-e9f8-4b20-90d5-](https://standards.iteh.ai/catalog/standards/sist/97db6c7b-e9f8-4b20-90d5-328289a9865f/osist-pr-en-301-908-10-v4-3-0-2021)

[328289a9865f/osist-pr-en-301-908-10-v4-3-0-2021](https://standards.iteh.ai/catalog/standards/sist/97db6c7b-e9f8-4b20-90d5-328289a9865f/osist-pr-en-301-908-10-v4-3-0-2021)

Ta slovenski standard je istoveten z: ETSI EN 301 908-10 V4.3.0 (2021-08)

ICS:

33.060.99	Druga oprema za radijske komunikacije	Other equipment for radiocommunications
33.070.99	Druge mobilne storitve	Other mobile services

oSIST prEN 301 908-10 V4.3.0:2021 **en**

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[oSIST prEN 301 908-10 V4.3.0:2021](https://standards.iteh.ai/catalog/standards/sist/97db6c7b-e9f8-4b20-90d5-328289a9865f/osist-pren-301-908-10-v4-3-0-2021)

<https://standards.iteh.ai/catalog/standards/sist/97db6c7b-e9f8-4b20-90d5-328289a9865f/osist-pren-301-908-10-v4-3-0-2021>

Draft ETSI EN 301 908-10 V4.3.0 (2021-08)



**IMT cellular networks;
Harmonised Standard for access to radio spectrum;
Part 10: Base Stations (BS), Repeaters and User Equipment
(UE) for IMT-2000 Third-Generation cellular networks**

<https://standards.iteh.ai/catalog/standards/sist/97db6c7b-e9f8-4b20-90d5-328289a9865f/osist-pren-301-908-10-v4-3-0-2021>

Reference

REN/DECT-00313

KeywordsDECT, 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 - APE 7112B
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° w061004871

Important notice

The present document can be downloaded from:

<http://www.etsi.org/standards-search>

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the prevailing version of an ETSI deliverable is the one made publicly available in PDF format at www.etsi.org/deliver.

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

<https://portal.etsi.org/TB/ETSIDeliverableStatus.aspx>

If you find errors in the present document, please send your comment to one of the following services:

<https://portal.etsi.org/People/CommitteeSupportStaff.aspx>

Notice of disclaimer & limitation of liability

The information provided in the present deliverable is directed solely to professionals who have the appropriate degree of experience to understand and interpret its content in accordance with generally accepted engineering or other professional standard and applicable regulations.

No recommendation as to products and services or vendors is made or should be implied.

In no event shall ETSI be held liable for loss of profits or any other incidental or consequential damages.

Any software contained in this deliverable is provided "AS IS" with no warranties, express or implied, including but not limited to, the warranties of merchantability, fitness for a particular purpose and non-infringement of intellectual property rights and ETSI shall not be held liable in any event for any damages whatsoever (including, without limitation, damages for loss of profits, business interruption, loss of information, or any other pecuniary loss) arising out of or related to the use of or inability to use the software.

Copyright Notification

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.

The copyright and the foregoing restriction extend to reproduction in all media.

© ETSI 2021.
All rights reserved.

Contents

Intellectual Property Rights	10
Foreword.....	10
Modal verbs terminology.....	11
1 Scope	12
2 References	12
2.1 Normative references	12
2.2 Informative references.....	13
3 Definition of terms, symbols and abbreviations.....	14
3.1 Terms.....	14
3.2 Symbols.....	17
3.3 Abbreviations	17
4 Technical requirements specifications	18
4.1 Environmental profile.....	18
4.2 Overview	18
4.2.0 General.....	18
4.2.1 Test suites	18
4.2.2 Test groups.....	19
4.2.3 Test cases	19
4.3 Manufacturer's declaration	19
4.4 Applicability of test suites	20
4.4.1 Introduction.....	20
4.4.2 Equipment that includes only a DECT RF receiver	20
4.4.3 Equipment that includes a radio transmitter	20
4.4.4 CTAs.....	20
4.4.5 Equipment with combined FT and PT functionality.....	20
4.4.5.1 Introduction.....	20
4.4.5.2 Wireless Relay Station	20
4.4.5.3 Direct PP to PP communication	20
4.4.5.4 Distributed communications	21
4.4.6 Equipment that is capable of using higher level modulation	21
4.5 Conformance requirements	21
4.5.1 General.....	21
4.5.2 Accuracy and stability of RF carriers	21
4.5.2.1 Definition of nominal position of RF carriers	21
4.5.2.2 Limits	21
4.5.2.3 Conformance.....	22
4.5.3 Accuracy and stability of timing parameters	22
4.5.3.0 General	22
4.5.3.1 Definitions.....	22
4.5.3.1.1 Slot structure.....	22
4.5.3.1.2 Definition of the position of p0	22
4.5.3.2 Limits	22
4.5.3.2.1 Reference timer accuracy and stability	22
4.5.3.2.2 RFP transmission jitter	22
4.5.3.2.3 PP reference timer synchronization	23
4.5.3.3 Conformance.....	23
4.5.4 Transmission burst.....	23
4.5.4.1 Definitions.....	23
4.5.4.1.1 Introduction	23
4.5.4.1.2 Physical packets.....	23
4.5.4.1.3 Transmitted power.....	24
4.5.4.1.4 Normal Transmitted Power (NTP)	24
4.5.4.1.5 Transmitter attack time.....	24
4.5.4.1.6 Transmitter release time	24

4.5.4.1.7	Minimum power	24
4.5.4.1.8	Maximum power	24
4.5.4.1.9	Maintenance of transmission after packet end.....	24
4.5.4.1.10	Transmitter idle power output	24
4.5.4.2	Limits	24
4.5.4.2.1	Transmitter attack time.....	24
4.5.4.2.2	Transmitter release time	24
4.5.4.2.3	Minimum power	24
4.5.4.2.4	Maximum power	24
4.5.4.2.5	Maintenance of transmission after packet end.....	25
4.5.4.2.6	Transmitter idle power output	25
4.5.4.3	Conformance.....	25
4.5.5	Transmitted power	25
4.5.5.1	Definitions.....	25
4.5.5.1.1	PP and RFP with an integral antenna	25
4.5.5.1.2	PP and RFP with external connections for all antennas	25
4.5.5.1.3	PP and RFP with both integral and external antennas	25
4.5.5.2	Limits	25
4.5.5.3	Conformance.....	25
4.5.6	RF carrier modulation.....	26
4.5.6.1	Definition	26
4.5.6.2	Limits	26
4.5.6.3	Conformance.....	26
4.5.7	Unwanted RF power radiation.....	26
4.5.7.1	General	26
4.5.7.2	Emissions due to modulation	26
4.5.7.2.1	Definition.....	26
4.5.7.2.2	Limits	27
4.5.7.2.3	Conformance	27
4.5.7.3	Emissions due to transmitter transients.....	27
4.5.7.3.1	Definition.....	27
4.5.7.3.2	Limits	27
4.5.7.3.3	Conformance.....	27
4.5.7.4	Emissions due to intermodulation.....	27
4.5.7.4.1	Definition.....	27
4.5.7.4.2	Limits	28
4.5.7.4.3	Conformance	28
4.5.7.5	Spurious emissions when allocated a transmit channel.....	28
4.5.7.5.1	Definition.....	28
4.5.7.5.2	Limits	28
4.5.7.5.3	Conformance	28
4.5.8	Radio receiver testing	28
4.5.8.0	General	28
4.5.8.1	Radio receiver sensitivity	29
4.5.8.1.1	Definition.....	29
4.5.8.1.2	Limits	29
4.5.8.1.3	Conformance	29
4.5.8.2	Radio receiver reference BER and FER.....	29
4.5.8.2.1	Definition.....	29
4.5.8.2.2	Limits	29
4.5.8.2.3	Conformance	29
4.5.8.3	Radio receiver interference performance	29
4.5.8.3.1	Definition.....	29
4.5.8.3.2	Limits	29
4.5.8.3.3	Conformance	30
4.5.8.4	Radio receiver blocking case 1: owing to signals occurring at the same time but on other frequencies	30
4.5.8.4.1	Definition.....	30
4.5.8.4.2	Limits	30
4.5.8.4.3	Conformance	30
4.5.8.5	Radio receiver blocking case 2: owing to signals occurring at a different time.....	31
4.5.8.5.1	Definition.....	31

4.5.8.5.2	Limits	31
4.5.8.5.3	Conformance	31
4.5.8.6	Receiver intermodulation performance	31
4.5.8.6.1	Definition.....	31
4.5.8.6.2	Limits	31
4.5.8.6.3	Conformance	31
4.5.8.7	Spurious emissions when the PP has no allocated transmit channel	31
4.5.8.7.1	Definition.....	31
4.5.8.7.2	Limits	31
4.5.8.7.3	Conformance	32
4.5.9	Channel access.....	32
4.5.9.1	Channel selection	32
4.5.9.2	Channel confirmation.....	32
4.5.9.2.1	For the PT	32
4.5.9.2.2	For the FT	32
4.5.9.3	Channel release	33
4.5.9.4	General	33
4.5.9.5	Channel selection and confirmation for DECT ULE	33
4.5.9.5.1	General	33
4.5.9.5.2	For the PT.....	33
4.5.9.5.3	For the FT.....	34
4.5.10	WRS testing.....	34
4.5.10.1	General requirements	34
4.5.10.2	Testing as a PP	34
4.5.10.3	Testing as an RFP	34
4.5.10.4	Additional requirements.....	35
4.5.10.5	Conformance.....	39
4.5.11	Requirements for PPs with direct PP to PP communication mode	39
4.5.11.1	General requirements	39
4.5.11.2	Conformance.....	39
4.5.12	Distributed communications	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.....	39
4.5.12.4	Conformance.....	40
4.5.13	Higher level modulation options.....	40
4.5.13.1	Requirements	40
4.5.13.2	Conformance.....	41
5	Testing for compliance with technical requirements.....	41
5.1	General test requirements	41
5.1.1	Test philosophy.....	41
5.1.2	Standard position	42
5.1.3	Test antenna of the LT	42
5.1.4	Substitution antenna.....	43
5.1.5	Test fixture.....	43
5.1.5.1	Description	43
5.1.5.2	Calibration of the test fixture for the measurement of transmitter characteristics.....	43
5.1.5.3	Calibration of the test fixture for the measurement of receiver characteristics	44
5.1.5.4	Mode of use.....	44
5.1.6	Equipment with a temporary or internal permanent antenna connector.....	45
5.1.6.1	General	45
5.1.6.2	Equipment with a temporary antenna connector	45
5.1.7	Lower Tester (LT)	45
5.1.7.1	Description	45
5.1.7.2	Connections between the EUT and the LT	46
5.1.7.3	Functions and abilities.....	46
5.1.7.4	Signal generation uncertainty.....	47
5.1.7.5	Modulated DECT-like carrier	47
5.1.7.6	CW interferers.....	47
5.1.7.7	DECT RF signal.....	47
5.1.7.8	Test modulation signals.....	47

5.1.8	Upper Tester (UT)	48
5.1.8.1	Description of the UT	48
5.1.8.2	The test standby mode	48
5.1.8.3	Test messages	48
5.1.8.4	Dummy setting when EUT is a RFP and it is in Test Standby Mode (TSM)	49
5.1.9	Description of the Lower Tester FT and PT	49
5.1.10	General test methods	49
5.1.10.1	General	49
5.1.10.2	Sampling the RF signal	49
5.1.10.2.1	Introduction	49
5.1.10.2.2	Sampling method	49
5.1.10.3	Determining the reference position	49
5.1.10.3.0	General	49
5.1.10.3.1	Case 1: EUTs that cannot transmit	49
5.1.10.3.2	Case 2: EUTs that can transmit	50
5.1.10.4	Bit Error Ratio (BER) and Frame Error Ratio (FER) measurements	50
5.1.11	Test setup	50
5.1.11.1	General	50
5.1.11.2	Test setup 1	50
5.1.11.3	Test setup 2	50
5.1.11.4	Test setup 3	51
5.1.11.5	Test setup 4	51
5.1.12	Test arrangements for intermodulation measurements	52
5.1.12.1	PT to PT arrangement	52
5.1.12.2	FT to FT arrangement	53
5.1.12.3	FT to PT arrangement	53
5.1.13	Test conditions, power supply and ambient temperatures	53
5.1.13.1	General	53
5.1.13.2	Nominal test conditions	54
5.1.13.3	Extreme test conditions	54
5.1.13.4	Test power source - general requirements	55
5.1.13.5	Nominal test power source	55
5.1.13.5.1	Mains voltage	55
5.1.13.5.2	Regulated lead acid battery power sources	56
5.1.13.5.3	Nickel cadmium battery	56
5.1.13.5.4	Other power sources	56
5.1.13.6	Extreme test power source	56
5.1.13.6.1	Mains voltage	56
5.1.13.6.2	Regulated lead acid battery power sources	56
5.1.13.6.3	Nickel cadmium battery	56
5.1.13.6.4	Other power sources	56
5.1.14	Testing in an anechoic chamber	56
5.2	Interpretation of the measurement results	57
5.3	Radio test suites	57
5.3.1	General	57
5.3.2	Accuracy and stability of RF carriers	58
5.3.2.1	Test environment	58
5.3.2.2	Method of measurement	58
5.3.2.3	Verdict criteria when the EUT is a RFP	58
5.3.2.4	Verdict criteria when the EUT is a PP	59
5.3.3	Accuracy and stability of timing parameters	59
5.3.3.1	Measurement of packet timing jitter	59
5.3.3.1.1	Test environment	59
5.3.3.1.2	Method of measurement	59
5.3.3.1.3	Verdict criteria	60
5.3.3.2	Measurement of the reference timing accuracy of a RFP	60
5.3.3.2.1	Test environment	60
5.3.3.2.2	Method of measurement	60
5.3.3.2.3	Verdict criteria	60
5.3.3.3	Measurement of packet transmission accuracy of a PP	61
5.3.3.3.1	Test environment	61
5.3.3.3.2	Method of measurement	61

5.3.3.3.3	Verdict criteria.....	61
5.3.4	Transmission burst.....	62
5.3.4.1	Test environment.....	62
5.3.4.2	Method of measurement.....	62
5.3.4.3	Verdict criteria.....	62
5.3.5	Transmitted power.....	63
5.3.5.1	PP and RFP with an integral antenna.....	63
5.3.5.1.1	Test environment.....	63
5.3.5.1.2	Method of measurement.....	63
5.3.5.1.3	Verdict criteria for all EUTs.....	64
5.3.5.2	PP and RFP with external antenna connection(s).....	64
5.3.5.2.1	Test environment.....	64
5.3.5.2.2	Method of measurement.....	64
5.3.5.2.3	Verdict criteria for all EUTs.....	65
5.3.6	RF carrier modulation.....	65
5.3.6.1	Test environment.....	65
5.3.6.2	Method of measurement, parts 1 and 2.....	65
5.3.6.2.1	Introduction.....	65
5.3.6.2.2	Part 1.....	65
5.3.6.2.3	Part 2.....	65
5.3.6.3	Method of measurement, parts 3 and 4.....	66
5.3.6.3.1	General.....	66
5.3.6.3.2	Part 3.....	66
5.3.6.3.3	Part 4.....	66
5.3.6.4	Verdict criteria for Part 1.....	67
5.3.6.5	Verdict criteria for Part 2.....	67
5.3.6.6	Verdict criteria for Part 3.....	67
5.3.6.7	Verdict criteria for Part 4.....	67
5.3.7	Unwanted RF power radiation.....	69
5.3.7.1	General test conditions.....	69
5.3.7.2	Emissions due to modulation.....	69
5.3.7.2.1	Test environment.....	69
5.3.7.2.2	Method of measurement.....	69
5.3.7.2.3	Verdict criteria.....	70
5.3.7.3	Emissions due to transmitter transients.....	70
5.3.7.3.1	Test environment.....	70
5.3.7.3.2	Method of measurement.....	70
5.3.7.3.3	Verdict criteria.....	71
5.3.7.4	Emissions due to intermodulation.....	71
5.3.7.4.1	Test environment.....	71
5.3.7.4.2	Method of measurement.....	71
5.3.7.4.3	Verdict criteria.....	72
5.3.7.5	Spurious emissions when allocated a transmit channel.....	73
5.3.7.5.1	Radiated emissions.....	73
5.3.7.5.2	Conducted spurious emissions when the EUT has a permanent external antenna connector.....	74
5.3.8	Radio receiver testing.....	74
5.3.8.0	General.....	74
5.3.8.1	Radio receiver sensitivity.....	74
5.3.8.1.1	Test environment.....	74
5.3.8.1.2	Method of measurement.....	74
5.3.8.1.3	Verdict criteria.....	75
5.3.8.2	Radio receiver reference BER and FER.....	75
5.3.8.2.1	Test environment.....	75
5.3.8.2.2	Method of measurement.....	75
5.3.8.2.3	Verdict criteria.....	75
5.3.8.3	Radio receiver interference performance.....	75
5.3.8.3.1	Test environment.....	75
5.3.8.3.2	Method of measurement.....	75
5.3.8.3.3	Verdict criteria.....	76
5.3.8.4	Radio receiver blocking case 1: owing to signals occurring at the same time but on other frequencies.....	76
5.3.8.4.1	Test environment.....	76

5.3.8.4.2	Method of measurement	76
5.3.8.4.3	Verdict criteria.....	77
5.3.8.5	Radio receiver blocking case 2: owing to signals occurring at a different time	78
5.3.8.5.1	Test environment.....	78
5.3.8.5.2	Method of measurement	78
5.3.8.5.3	Verdict criteria.....	78
5.3.8.6	Receiver intermodulation performance	79
5.3.8.6.1	Test environment.....	79
5.3.8.6.2	Method of measurement	79
5.3.8.6.3	Verdict criteria.....	79
5.3.8.7	Spurious emissions when the PP has no allocated transmit channel	79
5.3.8.7.1	Test environment.....	79
5.3.8.7.2	Method of measurement	80
5.3.8.7.3	Verdict criteria (outside the DECT band).....	80
5.3.8.7.4	Verdict criteria (inside the DECT band).....	80
5.3.9	Channel access.....	80
5.3.9.1	Test Environment.....	80
5.3.9.2	FT Test Setup	81
5.3.9.2.1	General	81
5.3.9.2.2	FT Method of Measurement	81
5.3.9.2.3	FT Verdict Criteria	81
5.3.9.3	PT Test Setup	82
5.3.9.3.1	General	82
5.3.9.3.2	PT Method of Measurement	82
5.3.9.3.3	PT Verdict Criteria	83
5.3.9.4	Channel Release	83
5.3.9.4.1	General	83
5.3.9.4.2	Method of Measurement.....	83
5.3.9.4.3	Channel Release Verdict Criteria	84
5.3.10	WRS testing.....	84
5.3.10.1	General	84
5.3.10.2	Testing as a PP	84
5.3.10.3	Testing as an RFP	84
5.3.10.4	Additional requirements	85
5.3.11	Requirements for PPs with direct PP to PP communication mode	85
5.3.11.1	General	85
5.3.12	Distributed Communications	85
5.3.12.1	General	85
5.3.12.2	Testing as a PP	86
5.3.12.3	Testing as an RFP	86
5.3.12.4	Conformance.....	86
5.3.13	Higher level modulation options.....	86
5.3.13.1	General	86
5.3.13.2	Activation of higher level modulations when EUT is in Test Standby Mode.....	86
Annex A (informative):	Relationship between the present document and the essential requirements of Directive 2014/53/EU	88
Annex B (normative):	Procedures for test fixture calibration.....	90
B.1	Calibration of test fixture for receiver measurements	90
Annex C (normative):	Measurement of BER and FER.....	91
Annex D (informative):	Procedures for the measurement of synchronization loss at the EUT by the LT	92
D.1	Description	92
D.2	Method	92
Annex E (informative):	DECT carrier numbers and carrier positions in the range 1 880 MHz to 2 025 MHz	93

E.1	Introduction	93
E.2	1 880 MHz to 1 978 MHz and 2 010 MHz to 2 025 MHz RF band 00001.....	93
E.3	1 880 MHz to 1 925 MHz and 2 010 MHz to 2 025 MHz RF band 00010.....	95
Annex F (informative):	Maximum measurement uncertainty	96
Annex G (informative):	Additional receiver parameters identified under article 3.2 of Directive 2014/53/EU	97
Annex H (informative):	Bibliography.....	98
Annex I (informative):	Change History	99
History		100

iTeh STANDARD PREVIEW (standards.iteh.ai)

[oSIST prEN 301 908-10 V4.3.0:2021](https://standards.iteh.ai/catalog/standards/sist/97db6c7b-e9f8-4b20-90d5-328289a9865f/osist-pren-301-908-10-v4-3-0-2021)

<https://standards.iteh.ai/catalog/standards/sist/97db6c7b-e9f8-4b20-90d5-328289a9865f/osist-pren-301-908-10-v4-3-0-2021>

Intellectual Property Rights

Essential patents

IPRs essential or potentially essential to normative deliverables may have been declared to ETSI. The declarations pertaining to these essential IPRs, if any, are 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 (<https://ipr.etsi.org/>).

Pursuant to the ETSI Directives including the ETSI IPR Policy, no investigation regarding the essentiality of IPRs, 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.

Trademarks

The present document may include trademarks and/or tradenames which are asserted and/or registered by their owners. ETSI claims no ownership of these except for any which are indicated as being the property of ETSI, and conveys no right to use or reproduce any trademark and/or tradename. Mention of those trademarks in the present document does not constitute an endorsement by ETSI of products, services or organizations associated with those trademarks.

DECT™, **PLUGTESTS™**, **UMTS™** and the ETSI logo are trademarks of ETSI registered for the benefit of its Members. **3GPP™** and **LTE™** are trademarks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners. **oneM2M™** logo is a trademark of ETSI registered for the benefit of its Members and of the oneM2M Partners. **GSM®** and the GSM logo are trademarks registered and owned by the GSM Association.

ITEH STANDARD PREVIEW
(standards.iteh.ai)

Foreword

oSIST prEN 301 908-10 V4.3.0:2021

This draft Harmonised European Standard (EN) has been produced by ETSI Technical Committee Digital Enhanced Cordless Telecommunications (DECT), and is now submitted for the combined Public Enquiry and Vote phase of the ETSI standards EN Approval Procedure.

The present document has been prepared under the Commission's standardisation request C(2015) 5376 final [i.3] 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.18].

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 10 of a multi-part deliverable. Full details of the entire series can be found in part 1 [i.19].

Proposed national transposition dates	
Date of latest announcement of this EN (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	18 months after doa

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.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[oSIST prEN 301 908-10 V4.3.0:2021](https://standards.iteh.ai/catalog/standards/sist/97db6c7b-e9f8-4b20-90d5-328289a9865f/osist-pren-301-908-10-v4-3-0-2021)
<https://standards.iteh.ai/catalog/standards/sist/97db6c7b-e9f8-4b20-90d5-328289a9865f/osist-pren-301-908-10-v4-3-0-2021>

1 Scope

The present document applies to the following equipment types for IMT-FT. IMT-FT is the Digital Enhanced Cordless Telecommunications (DECT) system being a member of the ITU IMT-2000 family:

- a) Base Station (BS) (termed as Fixed Part (FP) throughout the present document)
- b) User Equipment (UE) (termed as Portable Part (PP) throughout the present document)
- c) Cordless Terminal Adapter (CTA) (specific type of UE)
- d) Repeater (termed as Wireless Relay Station (WRS) (FP and PP combined) throughout the present document)
- e) Hybrid Part (HyP) (a PP with capability to act as a FP to provide PP to PP communication)

These radio equipment types can operate in all or any part of the frequency bands given in table 1.

Table 1: Radiocommunications service frequency bands

	Radiocommunications service frequency bands
Transmit	1 900 MHz to 1 980 MHz
Receive	1 900 MHz to 1 980 MHz
Transmit	2 010 MHz to 2 025 MHz
Receive	2 010 MHz to 2 025 MHz

The IMT-FT (DECT) service frequency bands for transmitting and receiving for all elements are the parts of the IMT spectrum applicable for TDD operation, 1 900 MHz to 1 980 MHz and 2 010 MHz to 2 025 MHz.

NOTE 1: IMT-FT equipment may have a second mode for providing operation also in the DECT band 1 880 MHz to 1 900 MHz. Application of DECT in the band 1 880 MHz to 1 900 MHz is covered by ETSI EN 301 406 [i.7].

Details of the DECT Common Interface may be found in ETSI EN 300 175-1 [i.12], ETSI EN 300 175 parts 2 [1] to 3 [2], ETSI EN 300 175-4 [i.13], ETSI EN 300 175 parts 5 [3] to 6 [4] and ETSI EN 300 175 parts 7 [i.14] to 8 [i.15]. Further details of the DECT system may be found in ETSI TR 101 178 [i.1]. Information about ULE may be found in ETSI TS 102 939-1 [i.16] and ETSI TS 102 939-2 [i.17].

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 2: The relationship between the present document and essential requirements of article 3.2 of Directive 2014/53/EU [i.18] is given in annex A.

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] ETSI EN 300 175-2 (V2.8.1) (12-2019): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 2: Physical layer (PHL)".
- [2] ETSI EN 300 175-3 (V2.8.1) (12-2019): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 3: Medium Access Control (MAC) Layer".
- [3] ETSI EN 300 175-5 (V2.8.1) (12-2019): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 5: Network (NWK) layer".
- [4] ETSI EN 300 175-6 (V2.8.1) (12-2019): "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 6: Identities and addressing".
- [5] Void.
- [6] ETSI EN 300 700 (V2.2.1) (12-2018): "Digital Enhanced Cordless Telecommunications (DECT); Wireless Relay Station (WRS)".
- [7] Recommendation ITU-T O.153 (10-1992): "Basic parameters for the measurement of error performance at bit rates below the primary rate".

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. **(standards.iteh.ai)**

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] ETSI TR 101 178: "Digital Enhanced Cordless Telecommunications (DECT); A High Level Guide to the DECT Standardization".
- [i.2] Void.
- [i.3] 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.4] Void.
- [i.5] Void.
- [i.6] Void.
- [i.7] ETSI EN 301 406 (V2.2.2) (09-2016): "Digital Enhanced Cordless Telecommunications (DECT); Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU".
- [i.8] Void.
- [i.9] Void.
- [i.10] ETSI TR 100 028 (all parts): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics".
- [i.11] ISO/IEC 9646-1 (1994): "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 1: General concepts".