

SLOVENSKI STANDARD SIST EN 301 908-4 V6.2.1:2013

01-oktober-2013

Celična omrežja IMT - Harmonizirani EN, ki zajema bistvene zahteve člena 3.2 direktive R&TTE - 4. del: Uporabniška oprema CDMA z več nosilnimi frekvencami (cdma2000)

IMT cellular networks - Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive - Part 4: CDMA Multi-Carrier (cdma2000) User Equipment (UE)

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 301 908-4 V6.2.1:2013

https://standards.iteh.ai/catalog/standards/sist/7c13f643-110d-46bc-8651-Ta slovenski standard je istoveten z:/sist-en-EN_3014908-4_Version 6.2.1

ICS:

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

SIST EN 301 908-4 V6.2.1:2013 en

SIST EN 301 908-4 V6.2.1:2013

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 301 908-4 V6.2.1:2013 https://standards.iteh.ai/catalog/standards/sist/7c13f643-110d-46bc-8651-8c4f83314116/sist-en-301-908-4-v6-2-1-2013 SIST EN 301 908-4 V6.2.1:2013

ETSI EN 301 908-4 V6.2.1 (2013-06)



IMT cellular networks; Harmonized EN covering the essential requirements of article(3t2 of the R&TTE) Directive; Part 4: CDMA Multi-Carrier (cdma2000) User Equipment (UE)

https://standards.iteh.ai/catalog/standards/sist/7c13f643-110d-46bc-8651-8c4f83314116/sist-en-301-908-4-v6-2-1-2013

Reference

REN/MSG-TFES-010-04

Keywords

3G, 3GPP, 3GPP2, cdma2000, cellular, digital, IMT-2000, mobile, radio, regulation, 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

Teh Sous-Préfecture de Grasse (06) N° 7803/88/ IEW

(standards.iteh.ai)

<u>SIST EN 301 908-4 V6.2.1:2013</u> https://standards.iteh.ai/catalog/standards/sist/7c13f643-110d-46bc-8651-8c4f833141 **Important notice**_v6-2-1-2013

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

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, please send your comment to one of the following services: <u>http://portal.etsi.org/chaircor/ETSI_support.asp</u>

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 2013.
All rights reserved.

DECTTM, **PLUGTESTS**TM, **UMTS**TM and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members. **3GPP**TM and **LTE**TM are Trade Marks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

GSM® and the GSM logo are Trade Marks registered and owned by the GSM Association.

Contents

Intelle	ectual Property Rights	6
Forew	vord	6
Introd	luction	6
1	Scope	7
2	References	7
2.1	Normative references	
2.2	Informative references	
3	Definitions, symbols and abbreviations	
3.1	Definitions	۶9
3.2	Symbols	
3.3	Abbreviations	21
4	Technical requirements specifications	22
4 .1	Environmental profile	
4.2	Conformance requirements	
4.2.1	Introduction	
4.2.2	Conducted spurious emissions when transmitting	
4.2.2.1		
4.2.2.2		
4.2.2.2		4.
4.2.2.2	type 2 cdma2000 systems	24
4.2.2.2		
4.2.2.2		
4.2.2.3	Conformance	26
4.2.3	Maximum RF output power SIST EN 301 908-4 V6.2.1.2013	20
4.2.3.1	Conformance SISTEN 301 908-4 V6.2.12013 Maximum RF output power SISTEN 301 908-4 V6.2.12013 Definition Definition Sc483314116/sist-en-301-908-4-v6-2-1-2013 Limits Sc483314116/sist-en-301-908-4-v6-2-1-2013	20
4.2.3.2	8c4f83314116/sist-en-301-908-4-v6-2-1-2013	27
4.2.3.3	3 Conformance	27
4.2.4	Minimum controlled output power	
4.2.4.1		
4.2.4.2		
4.2.4.3		
4.2.5	Conducted spurious emissions when not transmitting	
4.2.5.1		
4.2.5.2		
4.2.5.3		
4.2.5. 4.2.6	Receiver blocking characteristics	∠ი
4.2.6.1		
4.2.6.2		
4.2.6.2		
4.2.6.2		
4.2.6.3	1 0 11	
4.2.0 4.2.7	Intermodulation spurious response attenuation	
4.2.7.1		
4.2.7.2		
4.2.7.2		
4.2.7.2 4.2.7.2	1 6 71	
4.2.7.3		
4.2.7.3 4.2.8	Adjacent channel selectivity	
4.2.8 4.2.8.1	· · · · · · · · · · · · · · · · · · ·	
4.2.8.2		
4.2.8.2 4.2.8.2		
4.2.8.2 4.2.8.2		
4.2.8.3 4.2.8.3	1 6 71	
+.∠.٥.3	Comormance	50

4.2.9	Supervision of paging channel or Forward Common Control Channel	
4.2.9.1	Definition	
4.2.9.2	Limits	
4.2.9.3	Conformance	
4.2.10	Supervision of forward traffic channel	
4.2.10.1	Definition	
4.2.10.2	Limits	
4.2.10.3	Conformance	
4.2.11	Supervision of control channel	
4.2.11.1	Definition	
4.2.11.2	Limits	
4.2.11.3	Conformance	
4.2.12 4.2.12.1	Supervision procedures in variable rate state	
4.2.12.1	Definition	
4.2.12.2	Limits	
4.2.12.3	Comormance	33
5 To	esting for compliance with technical requirements	33
5.1	Conditions for testing	
5.1.1	Introduction	
5.1.2	Standard equipment under test	
5.1.2.1	Basic equipment	
5.1.2.2	Ancillary equipment	
5.2	Interpretation of the measurement results	
5.3	Essential radio test suites	
5.3.1	Conducted spurious emissions when transmitting	
5.3.1.1	Test procedure for mobile stations supporting operation in type 1 cdma2000 systems	
5.3.1.2	Test procedure for mobile stations supporting operation in type 2 cdma2000 systems	
5.3.1.3	Test procedure for mobile stations supporting multicarrier HRPD operation	
5.3.2	Maximum RF output power Standards. Iten. a1)	
5.3.2.1	Test procedure for mobile stations supporting operation in type 1 cdma2000 systems	
5.3.2.2	Test procedure for mobile stations supporting operation in type 2 cdma2000 systems	
5.3.3	Minimum controlled output power analog/standards/sist/7ct/3/643-110d-46bc-8651-	41
5.3.3.1 5.3.3.2	Test procedure for mobile stations supporting operation in type 1 cdma2000 systems Test procedure for mobile stations supporting operation in type 2 cdma2000 systems	
5.3.4	Conducted spurious emissions when not transmitting	
5.3.4.1	Test procedure for mobile stations supporting operation in type 1 and/or type 2 cdma2000	42
J.J. T .1	systems	42
5.3.5	Receiver blocking characteristics	
5.3.5.1	Test procedure for mobile stations supporting operation in type 1 cdma2000 systems	
5.3.5.2	Test procedure for mobile stations supporting operation in type 2 cdma2000 systems	
5.3.6	Intermodulation spurious response attenuation	
5.3.6.1	Test procedure for mobile stations supporting operation in type 1 cdma2000 systems	
5.3.6.2	Test procedure for mobile stations supporting operation in type 2 cdma2000 systems	
5.3.7	Adjacent channel selectivity	
5.3.7.1	Test procedure for mobile stations supporting operation in type 1 cdma2000 systems	
5.3.7.2	Test procedure for mobile stations supporting operation in type 2 cdma2000 systems	
5.3.8	Supervision of paging channel or Forward Common Control Channel	
5.3.9	Supervision of forward traffic channel	50
5.3.10	Supervision of control channel	51
5.3.11	Supervision procedures in variable rate state	52
Annex A	A (normative): HS Requirements and conformance Test specifications Table	
	(HS-RTT)	53
Annex 1	B (normative): Environmental profile and standard test conditions	55
B.1 In	ntroduction	55
B.2 C	DMA environmental requirements	55
B.2.1	Temperature and power supply voltage	
B.2.1.1	Definition	
B.2.1.2	Method of measurement	

B.2.1.3	Minimum standard	56
B.2.2	High humidity	56
B.2.2.1	Definition	
B.2.2.2	Method of measurement	56
B.2.2.3	Minimum standard	56
B.2.3	Vibration stability	57
B.2.3.1	Definition	57
B.2.3.2	Method of measurement	57
B.2.3.3	Minimum standard	57
B.2.4	Shock stability	57
B.2.4.1	Definition	57
B.2.4.2	Method of measurement	57
B.2.4.3	Minimum standard	57
B.3 S	Standard test conditions	57
B.3.1	Standard environmental test conditions	57
B.3.2	Standard conditions for the primary power supply	58
B.3.2.1	General	58
B.3.2.2	Standard DC test voltage from accumulator batteries	58
B.3.2.3	Standard AC voltage and frequency	58
Annex	C (informative): Void	59
Annex	D (informative): Bibliography	60
History	·	61

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 301 908-4 V6.2.1:2013 https://standards.iteh.ai/catalog/standards/sist/7c13f643-110d-46bc-8651-8c4f83314116/sist-en-301-908-4-v6-2-1-2013

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://ipr.etsi.org).

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 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 a mandate from the European Commission issued under Directive 98/34/EC [i.1] as amended by Directive 98/48/EC [i.4].

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 summarised in annex A.

The present document is part 4 of a multi-part deliverable Full details of the entire series can be found in part 1 [10].

https://standards.iteh.ai/catalog/standards/sist/7c13f643-110d-46bc-8651-

8c4f83314116/sist-en-301-908-4-v6-2-1-2013 National transposition dates			
Date of adoption of this EN:	10 June 2013		
Date of latest announcement of this EN (doa):	30 September 2013		
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 March 2014		
Date of withdrawal of any conflicting National Standard (dow):	31 March 2015		

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:

• User Equipment (also denoted as Mobile stations or Access Terminals) for IMT-2000 CDMA multi-carrier (cdma2000).

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

Band Class (BC) **Direction of transmission** CDMA multi-carrier mobile stations operating bands 1 920 MHz to 1 980 MHz Transmit 6 Receive 2 110 MHz to 2 170 MHz Transmit 1 710 MHz to 1 785 MHz 8 Receive 1 805 MHz to 1 880 MHz Transmit 880 MHz to 915 MHz 9 Receive 925 MHz to 960 MHz Transmit 2 500 MHz to 2 570 MHz 13 Receive 2 620 MHz to 2 690 MHz

Table 1-1: CDMA multi-carrier mobile stations operating bands

The present document covers requirements for IMT-2000 CDMA multi-carrier (cdma2000) User Equipments and Evolved CDMA Multi-Carrier (UMB) User Equipment.

User Equipment for IMT-2000 CDMA multi-carrier (cdma2000) may support: VIEW

- 1) operation in cdma2000 Spread Spectrum Systems as defined in 3GPP2 C.S0002-E [2], referred to herein as operation in type 1 cdma2000 systems; or
- 2) operation in cdma2000 High Rate Packet Data Systems as defined in 3GPP2 C.S0024-200-C [7] subtypes 0, 1, 2 and 3, referred to herein as operation in type 2 cdma2000 systems; or 4-46c-8651-
- 3) operation in both, type 1 and type 2 cdma2000 systems.

The present document is intended to cover the provisions of Directive 1999/5/EC [i.2] (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 [i.2] 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.

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 reference 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] 3GPP2 C.S0011-E V1.0 (April 2012): "Recommended Minimum Performance Standards for cdma2000 Spread Spectrum Mobile Stations".

Available at: http://www.3gpp2.org/Public html/specs/C.S0011-E v1.0 1x MS MPS 20120505.pdf. NOTE:

3GPP2 C.S0002-E V3.0 (June 2011): "Physical Layer Standard for cdma2000 Spread Spectrum [2] Systems Revision E".

Available at: http://www.3gpp2.org/Public_html/specs/C.S0002-NOTE:

E_v3.0_cdma2000_1x_PHY_20110620.pdf.

[3] 3GPP2 C.S0010-E V1.0 (December 2011): "Recommended Minimum Performance Standards for cdma2000 Spread Spectrum Base Stations".

Available at: http://www.3gpp2.org/Public html/specs/C.S0010-E v1.0 BS MPS 20111231.pdf. NOTE:

TIA-870-A (March 2005): "Test Data Service Option (TDSO) for cdma2000 Spread Spectrum [4] Systems - Revision A".

[5] 3GPP2 C.S0025-A V1.0 (March 2011): "Markov Service Option (MSO) for cdma2000 Spread Spectrum Systems".

Available at: http://www.3gpp2.org/Public_html/specs/C.S0025-A%20v1.0%20MSO.pdf. NOTE:

3GPP2 C.S0005-E V3.0 (June 2011). "Upper Layer (Layer 3) Signaling Standard for cdma2000 [6] Spread Spectrum Systems".

iteh 31 snecs/C.S0005-E v3.0 cdma2000 1x Layer-Available at: http://www.3gpp2 NOTE: 3 20110620.pdf.

SIST EN 301 908-4 V6.2.1:2013

[7] 3GPP2 C.S0024 200 C V2.0 (December 2011): "Physical Layer for cdma2000 High Rate Packet Data Air Interface Specification"st-en-301-908-4-v6-2-1-2013

Available at: http://www.3gpp2.org/Public_html/specs/C.S0024-200- NOTE:

C v2.0 Physical Layer HRPD 20111219.pdf.

3GPP2 C.S0033-D V1.0 (April 2012): "Recommended Minimum Performance Standards for [8] cdma2000 High Rate Packet Data Access Terminal".

Available at: http://www.3gpp2.org/Public html/specs/C.S0033-NOTE: D v1.0 HRPD AT MPS 20120506.pdf.

[9] 3GPP2 C.S0029-B V1.0 (March 2008): "Test Application Specification (TAS) for High Rate Packet Data Air Interface".

NOTE: Available at: http://www.3gpp2.org/Public html/specs/C.S0029-B v1.0 080409.pdf.

ETSI EN 301 908-1 (V6.2.1) (04-2013): "IMT cellular networks; Harmonized EN covering the [10] essential requirements of article 3.2 of the R&TTE Directive; Part 1: Introduction and common requirements".

ETSI EN 301 908-16 (V4.2.1) (03-2010): "Electromagnetic compatibility and Radio spectrum [11] Matters (ERM); Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks; Part 16: Harmonized EN for IMT-2000, Evolved CDMA Multi-Carrier Ultra Mobile Broadband (UMB) (UE) covering the essential requirements of article 3.2 of the R&TTE Directive".

[12] Void.

[13] 3GPP2 C.S0024-300-C V2.0 (July 2011): "Medium Access Layer for cdma2000 High Rate Packet Data Air Interface Specification".

NOTE: Available at: http://www.3gpp2.org/Public_html/specs/C.S0024-300-C_v2.0_Medium Access Control Layer for cdma2000 High Rate Packet Data Air Interface Specification_20110819.pdf.

[14] 3GPP2 C.S0024-400-C V2.0 (July 2011): "Connection and Security Layers for cdma2000 High Rate Packet Data Air Interface Specification".

NOTE: Available at: http://www.3gpp2.org/Public_html/specs/C.S0024-400-C_v2.0_Connection and Security Layers for cdma2000 High Rate Packet Data Air Interface Specification 20110819.pdf.

[15] Void.

[16] ETSI TS 145 004 (V10.0.0) (04-2011): "Digital cellular telecommunications system (Phase 2+); Modulation (3GPP TS 45.004 version 10.0.0 Release 10)".

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 (V2.1.1): "Electromagnetic compatibility and Radio spectrum Matters (ERM); A guide to the production of candidate Harmonized Standards for application under the R&TTE Directive".

 SIST EN 301 908-4 V6.2.1.2013
- [i.4] 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.

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

1X: mode of operation of a mobile station or access terminal using spreading rate 1

1XDO: mode of operation of a mobile station or access terminal using spreading rate 1 in data optimized systems

3X: mode of operation of a mobile station using spreading rate 3

access attempt: sequence of one or more access probe sequences on the access channel or enhanced access channel containing the same message

NOTE: See also access probe, access probe sequence, and enhanced access probe.

access channel: reverse CDMA channel used by mobile stations for communicating to the Base Station

NOTE: The access channel is used for short signalling message exchanges, such as call originations, responses to pages, and registrations. The access channel is a slotted random access channel.

access channel preamble: preamble of an access probe consisting of a sequence of all-zero frames that is sent at the 4 800 bit/s rate

access network: network equipment providing data connectivity between a packet switched data network (typically the Internet) and the access terminals in type 2 cdma2000 systems

NOTE: Connectivity is typically provided at the link layer (PPP). As used in the present document it is synonymous with Base Station except that HRPD access network always uses spreading rate 1.

access probe: one access channel transmission consisting of a preamble and a message

NOTE: The transmission is an integer number of frames in length, and transmits one access channel message. See also access probe sequence and access attempt.

access probe sequence: sequence of one or more access probes on the access channel or enhanced access channel

NOTE: The same access channel or enhanced access channel message is transmitted in every access probe of an access attempt. See also access probe, enhanced access probe, and access attempt.

access terminal: device providing data connectivity to a user in type 2 cdma2000 systems

NOTE: An access terminal may be connected to a computing device such as a laptop personal computer or may be self-contained data device such as a personal digital assistant or may be a mobile station. Also referred to as HRPD access terminal using spreading rate 1 or UE operating in a type 2 cdma2000 system.

ACK channel: channel used by the access terminal in type 2 cdma2000 systems to inform the access network whether a data packet transmitted on the forward traffic channel has been received successfully or not

active frame: frame that contains data and therefore is enabled in terms of traffic power

additional preamble: preamble sent after the last fractional preamble on the reverse pilot channel, prior to transmitting on the enhanced access channel or on the reverse common control channel

adjacent channel leakage ratio: ratio of the on-channel transmit power to the power measured in one of the adjacent channels (Standards.iteh.al)

bad frame: frame classified with insufficient frame quality or for radio configuration 19 600 bit/s primary traffic only, with bit errors (see also good frame) https://standards.iteh.ai/catalog/standards/sist/7c13f643-110d-46bc-8651-

band class: set of frequency channels and a numbering scheme for these channels

NOTE: Band classes are defined in 3GPP2 C.S0011-E [1], clause 3.1 and 3GPP2 C.S0010-E [3], clause 3.1.

Base Station (BS): fixed station used for communicating with mobile stations

NOTE 1: For the purpose of tests in clause 5 of the present document the term Base Station may also apply to a Base Station simulator having the capabilities defined in 3GPP2 C.S0011-E [1], clause 6.4.3.

NOTE 2: Base stations for IMT-2000 CDMA multi-Carrier (cdma2000) may support, operation in cdma2000 spread spectrum systems as defined in 3GPP2 C.S0002-E [2], referred to herein as operation in type 1 cdma2000 system, or operation in cdma2000 high rate packet data systems as defined in 3GPP2 C.S0024-200-C [7], referred to herein as operation in type 2 cdma2000 systems.

basic access mode: mode used on the enhanced access channel where a mobile station transmits an enhanced access channel preamble and enhanced access data in a method similar to that used on the access channel

broadcast control channel: code channel in a forward CDMA channel used for transmission of control information from a Base Station to a mobile station

candidate frequency: frequency for which the Base Station specifies a search set, when searching on other frequencies while performing mobile-assisted handoffs

CDMA channel: set of channels transmitted from the Base Station and the mobile stations on a given frequency

CDMA channel number: 11-bit number corresponding to the centre of the CDMA frequency assignment

CDMA frequency assignment: 1,23 MHz segment of spectrum

NOTE: For band classes 6, 8, 9 and 13, the channel is centred on one of the 50 kHz channels.

CDMA preferred set: set of CDMA channel numbers in a CDMA system corresponding to frequency assignments that a mobile station will normally search to acquire a CDMA pilot channel

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

code channel: subchannel of a forward CDMA channel or reverse CDMA channel

NOTE: Each subchannel uses an orthogonal Walsh function or quasi-orthogonal function.

Code Division Multiple Access (CDMA): technique for spread-spectrum multiple-access digital communications that creates channels through the use of unique code sequences

code symbol: output of an error-correcting encoder

NOTE: Information bits are input to the encoder and code symbols are output from the encoder (see convolutional code and turbo code).

common assignment channel: forward common channel used by the Base Station to acknowledge a mobile station accessing the enhanced access channel, and in the case of reservation access mode, to transmit the address of a reverse common control channel and associated common power control subchannel

common power control channel: forward common channel which transmits power control bits (i.e. common power control subchannels) to multiple mobile stations

NOTE: The common power control channel is used by mobile stations operating in the power controlled access mode, reservation access mode, or designated access mode.

common power control subchannel: subchannel on the common power control channel used by the Base Station to control the power of a mobile station when operating in the power controlled access mode on the enhanced access channel or when operating in the reservation access mode or the designated access mode on the reverse common control channel

(standards iteh a)

continuous transmission: mode of operation in which discontinuous transmission is not permitted

convolutional code: type of error-correcting code https://standards.iten.a/catalog/standards/sist/7c13f643-110d-46bc-8651-

NOTE: A code symbol can be considered as the convolution of the input data sequence with the impulse response of a generator function.

cyclic redundancy code: class of linear error detecting codes which generate parity check bits by finding the remainder of a polynomial division (see also frame quality indicator)

discontinuous transmission: mode of operation in which a Base Station or a mobile station switches its transmitter or a particular code channel on and off autonomously

NOTE: For the case of DTX operation on the forward dedicated control channel, the forward power control subchannel is still transmitted.

effective radiated power: product of the power supplied to the antenna and the antenna gain in a direction relative to a half-wave dipole

enhanced access channel: reverse channel used by the mobile for communicating to the Base Station

NOTE: The enhanced access channel operates in the basic access mode, power controlled access mode, and reservation access mode. It is used for transmission of short messages, such as signalling, response to pages, and call originations. It can also be used to transmit moderate-sized data packets.

enhanced access channel preamble: non-data-bearing portion of the enhanced access probe sent by the mobile station to assist the Base Station in initial acquisition and channel estimation

enhanced access data: data transmitted while in the basic access mode or power controlled access mode on the enhanced access channel or while in the reservation mode on a reverse common control channel

enhanced access header: frame containing access origination information transmitted immediately after the enhanced access channel preamble while in the power controlled access mode or reservation access mode

enhanced access probe: one enhanced access channel transmission consisting of an enhanced access channel preamble, optionally an enhanced access header and optionally enhanced access data

enhanced access probe sequence: sequence of one or more enhanced access probes on the enhanced access channel (see also enhanced access probe)

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

equivalent isotropically radiated power: product of the power supplied to the antenna and the antenna gain in a direction relative to an isotropic antenna

forward CDMA channel: CDMA channel from a Base Station to mobile stations

NOTE: The forward CDMA channel contains one or more code channels that are transmitted on a CDMA frequency assignment using a particular pilot PN offset.

forward common control channel: control channel used for the transmission of digital control information from a Base Station to one or more mobile stations

forward dedicated control channel: portion of a radio configuration 3 through 12 forward traffic channel used for the transmission of higher-level data, control information, and power control information from a Base Station to a mobile station

forward fundamental channel: portion of a forward traffic channel which carries a combination of higher-level data and power control information

forward MAC channel: forward channel used for medium access control in type 2 cdma2000 systems

NOTE: Forward MAC channel consists of the reverse power control channels, the DRCLock channel and the reverse activity channel. (standards iteh ai)

forward pilot channel: unmodulated, direct-sequence spread spectrum signal transmitted continuously by each CDMA Base Station

<u>SIST EN 301 908-4 V6.2.1:2013</u>

NOTE: The pilot channel allows a mobile station to acquire the timing of the forward CDMA channel, provides a phase reference for coherent demodulation, and provides means for signal strength comparisons between Base Stations for determining when to handoff.

forward power control subchannel: subchannel on the forward fundamental channel or forward dedicated control channel used by the Base Station to control the power of a mobile station when operating on the reverse traffic channel

forward supplemental channel: portion of a radio configuration 3 through 12 forward traffic channels which operates in conjunction with a forward fundamental channel or a forward dedicated control channel in that forward traffic channel to provide higher data rate services, and on which higher-level data is transmitted

forward supplemental code channel: portion of a radio configuration 1 and 2 forward traffic channel which operates in conjunction with a forward fundamental channel in that forward traffic channel to provide higher data rate services, and on which higher-level data is transmitted

forward test application protocol: test application protocol allowing forward link performance characterizations of type 2 cdma2000 systems

NOTE: See Directive 98/34/EC [i.1].

forward traffic channel: one or more code channels used to transport user and signalling traffic from the Base Station to the mobile station

NOTE: See forward fundamental channel, forward dedicated control channel, forward supplemental channel, and forward supplemental code channel.

frame: basic timing interval in the system

NOTE: For the sync channel, a frame is 26,667 ms long. For the access channel, the paging channel, the broadcast channel, the forward supplemental code channel, and the reverse supplemental code channel, a frame is 20 ms long. For the forward supplemental channel and the reverse supplemental channel, a frame is 20 ms, 40 ms or 80 ms long. For the enhanced access channel, the forward common control channel, and the reverse common control channel, a frame is 5 ms, 10 ms or 20 ms long. For the forward fundamental channel, forward dedicated control channel, reverse fundamental channel, and reverse dedicated control channel, a frame is 5 ms long.

frame activity: ratio of the number of active frames to the total number of frames during channel operation

frame error rate: number of frames in error on the forward traffic channel divided by the total number of frames

NOTE: The value of frame error rate may be estimated by using service option 2, 9, 32, 54 or 55 (see 3GPP2 C.S0011-E [1], clause 1.3).

frame quality indicator: CRC check applied to 9,6 Kbit/s and 4,8 Kbit/s traffic channel frames of radio configuration 1, to all forward traffic channel frames for radio configurations 2 through 12, to all reverse traffic channel frames for radio configurations 2 through 8, the broadcast channel, common assignment channel, enhanced access channel, and to the reverse common control channel

good frame: frame not classified as a bad frame

NOTE: See also bad frame.

good message: received message is declared a good message if it is received with a correct CRC

handoff: act of transferring communication with a mobile station from one Base Station to another

hard handoff: handoff characterized by a temporary disconnection of the traffic channel

NOTE 1: Hard handoffs occur when the mobile station is transferred between disjoint active sets, the CDMA frequency assignment changes, the frame offset changes, or the mobile station is directed from a CDMA traffic channel to an analogy voice channel 1-301-908-4-v6-2-1-2013

NOTE 2: See also soft handoff.

high rate packet data: CDMA technique optimized for data communications in type 2 cdma2000 system

line impedance stabilization network: network inserted in the supply mains lead of apparatus to be tested that provides, in a given frequency range, a specified load impedance for the measurement of disturbance voltages and that may isolate the apparatus from the supply mains in that frequency range

MAC channel: See forward MAC channel.

mean input power: total received calorimetric power measured in a specified bandwidth at the antenna connector, including all internal and external signal and noise sources

mean output power: total transmitted calorimetric power measured in a specified bandwidth at the antenna connector when the transmitter is active

mobile station: station intended to be used while in motion or during halts at unspecified points

NOTE: Mobile stations include portable units (e.g. hand-held personal units), units installed in vehicles and HRPD access terminals.

mobile station class: mobile station classes define mobile station characteristics, such as slotted operation and transmission power

mobile switching centre: configuration of fixed equipment that provides cellular or PCS service

non-slotted mode: operation mode of the mobile station in which the mobile station continuously monitors the paging channel