ETSITS 136 306 V10.11.0 (2014-01)



LTE;

Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities (3GPP TS 36.306 version 10.11.0 Release 10)



Reference
RTS/TSGR-0236306vab0

Keywords

LTE

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: <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: http://portal.etsi.org/chaircor/ETSI_support.asp

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 2014.
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.

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 Technical Specification (TS) has been produced by ETSI 3rd Generation Partnership Project (3GPP).

The present document may refer to technical specifications or reports using their 3GPP identities, UMTS identities or GSM identities. These should be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between GSM, UMTS, 3GPP and ETSI identities can be found under http://webapp.etsi.org/key/queryform.asp.

Contents

Intelle	ectual Property Rights	2
Forew	vord	2
Forew	/ord	6
1	Scope	7
2	References	7
	Definitions, symbols and abbreviations	
3.1	Definitions	
3.2	Symbols	
3.3	Abbreviations	
4		
4 4.1	UE radio access capability parameters	
4.1	ue-Category	
4.2.1	Transport channel parameters in downlink	
4.2.1.1		
4.2.1.2	1	
4.2.1.3		
4.2.1.4		
4.2.2	Transport channel parameters in uplink	
4.2.2.1		
4.2.2.2		
4.2.3	Physical channel parameters in downlink (DL)	
4.2.3.1		
4.2.4	Physical channel parameters in uplink (UL)	
4.2.4.1		
4.2.5	Total layer 2 buffer size	
4.3	Parameters independent of the field <i>ue-Category</i>	
4.3.1	PDCP Parameters	
4.3.1.1	supportedROHC-Profiles	11
4.3.1.2		
4.3.2	RLC parameters	
4.3.2.1	Void	12
4.3.3	Void	12
4.3.4	Physical layer parameters	12
4.3.4.1	ue-TxAntennaSelectionSupported	12
4.3.4.2		
4.3.4.3		
4.3.4.4	•	
4.3.4.5	•	
4.3.4.6		
4.3.4.7		
4.3.4.8		
4.3.4.9		
4.3.4.1		
4.3.4.1	8	
4.3.4.1		
4.3.4.1		
4.3.4.1		
4.3.4.1		
4.3.4.1		
4.3.4.1		
4.3.4.1 4.3.4.1		
4.3.4.1		
7.3.4.4	/U Y UIU	

4.3.4.21	Void	
4.3.4.22	Void	14
4.3.4.23	Void	14
4.3.4.24	tm5-FDD	14
4.3.4.25	tm5-TDD	14
4.3.5	RF parameters	14
4.3.5.1	supportedBandListEUTRA	
4.3.5.2	supportedBandCombination	
4.3.6	Measurement parameters	
4.3.6.1	interFreqNeedForGaps and interRAT-NeedForGaps	
4.3.7	Inter-RAT parameters	
4.3.7.1	Support of UTRA FDD	
4.3.7.2	supportedBandListUTRA-FDD	
4.3.7.3	Support of UTRA TDD 1.28 Mcps	
4.3.7.4	supportedBandListUTRA-TDD128	
4.3.7.5	Support of UTRA TDD 3.84 Mcps	
4.3.7.6	supportedBandListUTRA-TDD384	
4.3.7.7	Support of UTRA TDD 7.68 Mcps	
4.3.7.8	supportedBandListUTRA-TDD768	
4.3.7.9	Support of GERAN	
4.3.7.10	supportedBandListGERAN	
4.3.7.11	interRAT-PS-HO-ToGERAN	
4.3.7.12	Support of HRPD.	
4.3.7.13	supportedBandListHRPD	
4.3.7.14	tx-ConfigHRPD	
4.3.7.14	rx-ConfigHRPD	
4.3.7.16	Support of 1xRTT	
4.3.7.17	supportedBandList1XRTT	
4.3.7.17	tx-Config1XRTT	
4.3.7.19		
4.3.7.19	rx-Config1XRTT	
4.3.7.20	e-CSFB-1XRTTe-CSFB-ConcPS-Mob1XRTT	
4.3.7.21		
4.3.7.22	e-RedirectionUTRA	
	e-RedirectionGERAN	
4.3.7.24	dtm	
4.3.7.25	e-CSFB-dual-1XRTT	
4.3.7.26	e-RedirectionUTRA-TDD	
4.3.7.27	Void	
4.3.7.28	mfbi-UTRA	
4.3.8	General parameters	
4.3.8.1	accessStratumRelease	
4.3.8.2	deviceType	
4.3.9	Void	
4.3.10	CSG Proximity Indication parameters	
4.3.10.1	intraFreqProximityIndication	
4.3.10.2	interFreqProximityIndication	
4.3.10.3	utran-ProximityIndication	
4.3.11	Neighbour cell SI acquisition parameters	
4.3.11.1	intraFreqSI-AcquisitionForHO	
4.3.11.2	interFreqSI-AcquisitionForHO	
4.3.11.3	utran-SI-AcquisitionForHO	
4.3.12	SON parameters	
4.3.12.1	rach-Report	
4.3.13	UE-based network performance measurement parameters	
4.3.13.1	loggedMeasurementsIdle	
4.3.13.2	standaloneGNSS-Location	
4.3.14	IMS Voice parameters	
4.3.14.1	voiceOver-PS-HS-UTRA-FDD	
4.3.14.2	voiceOver-PS-HS-UTRA-TDD128	
4.3.14.3	srvcc-FromUTRA-FDD-ToGERAN	
4.3.14.4	srvcc-FromUTRA-FDD-ToUTRA-FDD	
13115	srvcc_FromLTR A_TDD128_ToGFR AN	10

4.3.14	.6 srvcc-FromUTRA-TDD128-ToUTRA-TDD128	19					
4.3.15	Void						
4.3.16	81						
4.3.16	.1 otdoa-UE-assisted	19					
4.3.16	.2 interFreqRSTDmeasurement	19					
5	Void	19					
6	Optional features without UE radio access capability parameters	19					
6.1	CSG features						
6.2	PWS features						
6.2.1	ETWS	20					
6.2.2	CMAS	20					
6.2.3	KPAS	20					
6.3	MBMS features	20					
6.4	Void	20					
6.5	Positioning features	20					
6.5.0	UE Rx – Tx time difference	20					
6.5.1	Void						
6.6	Void						
6.7	Void						
6.8	Void						
6.9	Void	20					
7	Conditionally Mandatory features	21					
7.1	Access control features	21					
7.1.1	SSAC						
7.1.2	CSFB Access Barring Control	21					
7.2	Emergency call features						
7.2.1	IMS emergency call						
7.3	MAC features						
7.3.1	SR mask						
7.3.2	Power Management Indicator in PHR						
7.4	Inter-RAT Mobility features						
7.4.1	High Priority CSFB redirection						
7.5	Delay Tolerant Access Features						
7.5.1	extendedWaitTime						
7.6	RRC Connection						
7.6.1	Additional Spectrum Emission						
7.7	Positioning features						
7.7.1	OTDOA Inter-frequency RSTD measurement indication	22					
Anne	x A (informative): Guideline on maximum number of DL PDCP SDUs per TTI	23					
Anne	x B (informative): Change history	24					
Histor	ry	26					

Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
 - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

1 Scope

The present document defines the E-UTRA UE Radio Access Capability Parameters.

2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document in the same Release as the present document.
- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications". [2] 3GPP TS 36.323: "Evolved Universal Terrestrial Radio Access (E-UTRA) Packet Data Convergence Protocol (PDCP) specification". 3GPP TS 36.322: "Evolved Universal Terrestrial Radio Access (E-UTRA) Radio Link Control [3] (RLC) specification". [4] 3GPP TS 36.321: "Evolved Universal Terrestrial Radio Access (E-UTRA) Medium Access Control (MAC) specification". [5] 3GPP TS 36.331: "Evolved Universal Terrestrial Radio Access (E-UTRA) Radio Resource Control (RRC) specification". [6] 3GPP TS 36.101: "Evolved Universal Terrestrial Radio Access (E-UTRA) radio transmission and reception". IETF RFC 4995: "The RObust Header Compression (ROHC) Framework". [7] [8] IETF RFC 4996: "RObust Header Compression (ROHC): A Profile for TCP/IP (ROHC-TCP)". IETF RFC 3095: "RObust Header Compression (RoHC): Framework and four profiles: RTP, [9] UDP, ESP and uncompressed". [10] IETF RFC 3843: "RObust Header Compression (RoHC): A Compression Profile for IP".
- IETF RFC 4815: "RObust Header Compression (ROHC): Corrections and Clarifications to RFC [11] 3095".
- IETF RFC 5225: "RObust Header Compression (ROHC) Version 2: Profiles for RTP, UDP, IP, [12] ESP and UDP Lite".
- 3GPP TS 36.355: "Evolved Universal Terrestrial Radio Access (E-UTRA) LTE Positioning [13] Protocol (LPP)".
- 3GPP TS 36.304: "Evolved Universal Terrestrial Radio Access (E-UTRA); UE Procedures in Idle [14] Mode".
- 3GPP TS 37.320: "Universal Terrestrial Radio Access (UTRA) and Evolved Universal Terrestrial [15] Radio Access (E-UTRA); Radio measurement collection for Minimization of Drive Tests (MDT); Overall description; Stage 2".
- [16] 3GPP TS 36.133: "Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management".

[17] 3GPP TS 36.211: "Evolved Universal Terrestrial Radio Access (E-UTRA); Physical Channels and

Modulation".

[18] 3GPP TS 25.307: "Requirement on User Equipments (UEs) supporting a release-independent

frequency band".

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in TR 21.905 [1].

<defined term>: <definition>.

3.2 Symbols

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

<symbol> <Explanation>

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in TR 21.905 [1].

1xRTT CDMA2000 1x Radio Transmission Technology

BCCH Broadcast Control Channel CSG Closed Subscriber Group DL-SCH Downlink Shared Channel

E-UTRA Evolved Universal Terrestrial Radio Access

E-UTRAN Evolved Universal Terrestrial Radio Access Network

FDD Frequency Division Duplex

GERAN GSM/EDGE Radio Access Network HARQ Hybrid Automatic Repeat Request

HRPD High Rate Packet Data MAC Medium Access Control

PDCP Packet Data Convergence Protocol
PHR Power Headroom Reporting
RACH Random Access CHannel
RAT Radio Access Technology
RLC Radio Link Control

ROHC RObust Header Compression
RRC Radio Resource Control
SI System Information
SON Self Organizing Networks
SSAC Service Specific Access Control

TDD Time Division Duplex TTI Transmission Time Interval

UE User Equipment
UL-SCH Uplink Shared Channel

UMTS Universal Mobile Telecommunications System

UTRA UMTS Terrestrial Radio Access

4 UE radio access capability parameters

The following subclauses define the UE radio access capability parameters and minimum capabilities for MBMS capable UE. Only parameters for which there is the possibility for UEs to signal different values are considered as UE radio access capability parameters. Therefore, mandatory capabilities that are the same for all UEs are not listed here. Also capabilities which are optional or conditionally mandatory for UEs to implement but do not have UE radio access capability parameter are listed in this specification.

E-UTRAN needs to respect the signalled UE radio access capability parameters when configuring the UE and when scheduling the UE.

All parameters shown in italics are signalled and correspond to a field defined in TS 36.331 [5].

4.1 ue-Category

The field *ue-Category* defines a combined uplink and downlink capability. The parameters set by the UE Category are defined in subclause 4.2. Tables 4.1-1 and 4.1-2 define the downlink and, respectively, uplink physical layer parameter values for each UE Category. A UE indicating category 6 or 7 shall also indicate category 4. A UE indicating category 8 shall also indicate category 5. Table 4.1-4 defines the minimum capability for the maximum number of bits of a MCH transport block received within a TTI for an MBMS capable UE.

Table 4.1-1: Downlink physical layer parameter values set by the field ue-Category

UE Category	Maximum number of DL-SCH transport block bits received within a TTI (Note)	Maximum number of bits of a DL-SCH transport block received within a TTI	Total number of soft channel bits	Maximum number of supported layers for spatial multiplexing in DL
Category 1	10296	10296	250368	1
Category 2	51024	51024	1237248	2
Category 3	102048	75376	1237248	2
Category 4	150752	75376	1827072	2
Category 5	299552	149776	3667200	4
Category 6	301504	149776 (4 layers) 75376 (2 layers)	3654144	2 or 4
Category 7	301504	149776 (4 layers) 75376 (2 layers)	3654144	2 or 4
Category 8	2998560	299856	35982720	8

NOTE: In carrier aggregation operation, the DL-SCH processing capability can be shared by the UE with that of MCH received from a serving cell. If the total eNB scheduling for DL-SCH and an MCH in one serving cell at a given TTI is larger than the defined processing capability, the prioritization between DL-SCH and MCH is left up to UE implementation.

Table 4.1-2: Uplink physical layer parameter values set by the field ue-Category

UE Category	Maximum number of UL-SCH transport block bits transmitted within a TTI	Maximum number of bits of an UL- SCH transport block transmitted within a TTI	Support for 64QAM in UL
Category 1	5160	5160	No
Category 2	25456	25456	No
Category 3	51024	51024	No
Category 4	51024	51024	No
Category 5	75376	75376	Yes
Category 6	51024	51024	No
Category 7	102048	51024	No
Category 8	1497760	149776	Yes

Table 4.1-3: Total layer 2 buffer sizes set by the field ue-Category

UE Category	Total layer 2 buffer size [bytes]
Category 1	150 000
Category 2	700 000
Category 3	1 400 000
Category 4	1 900 000
Category 5	3 500 000
Category 6	3 300 000
Category 7	3 800 000
Category 8	42 200 000

Table 4.1-4: Maximum number of bits of a MCH transport block received within a TTI set by the field *ue-Category* for an MBMS capable UE

UE Category	Maximum number of bits of a MCH transport block received within a TTI
Category 1	10296
Category 2	51024
Category 3	75376
Category 4	75376
Category 5	75376
Category 6	75376
Category 7	75376
Category 8	75376

4.2 Parameters set by the field *ue-Category*

4.2.1 Transport channel parameters in downlink

4.2.1.1 Maximum number of DL-SCH transport block bits received within a TTI

Defines the maximum number of DL-SCH transport blocks bits that the UE is capable of receiving within a DL-SCH TTI.

This number does not include the bits of a DL-SCH transport block carrying BCCH in the same subframe.

4.2.1.2 Maximum number of bits of a DL-SCH transport block received within a TTI

Defines the maximum number of DL-SCH transport block bits that the UE is capable of receiving in a single transport block within a DL-SCH TTI.

4.2.1.3 Total number of DL-SCH soft channel bits

Defines the total number of soft channel bits available for HARQ processing.

This number does not include the soft channel bits required by the dedicated broadcast HARQ process for the decoding of system information.

4.2.1.4 Maximum number of bits of a MCH transport block received within a TTI

Defines the maximum number of MCH transport block bits that the UE is capable of receiving within a MCH TTI.

4.2.2 Transport channel parameters in uplink

4.2.2.1 Maximum number of bits of an UL-SCH transport block transmitted within a TTI

Defines the maximum number of UL-SCH transport block bits that the UE is capable of transmitting in a single transport block within an UL-SCH TTI.

4.2.2.2 Maximum number of UL-SCH transport block bits transmitted within a TTI

Defines the maximum number of UL-SCH transport blocks bits that the UE is capable of transmitting within an UL-SCH TTL.

4.2.3 Physical channel parameters in downlink (DL)

4.2.3.1 Maximum number of supported layers for spatial multiplexing in DL

This field defines the maximum number of supported layers for spatial multiplexing per UE. The UE shall support the number of layers according to its Rel-8/9 category (Cat. 1-5) in all non-CA band combinations. Further requirements on the number of supported layers for spatial multiplexing are provided in section 4.3.5.2.

For each bandwidth class per band per band combination specified in *supportedBandCombination*, the UE provides the corresponding MIMO capability.

4.2.4 Physical channel parameters in uplink (UL)

4.2.4.1 Support for 64QAM in UL

Defines if 64QAM is supported in UL.

4.2.5 Total layer 2 buffer size

This parameter defines the total layer 2 buffer size. The total layer 2 buffer size is defined as the sum of the number of bytes that the UE is capable of storing in the RLC transmission windows and RLC reception and reordering windows for all radio bearers.

4.3 Parameters independent of the field *ue-Category*

4.3.1 PDCP Parameters

4.3.1.1 supportedROHC-Profiles

This field defines which ROHC profiles from the list below are supported by the UE.

- 0x0000 ROHC uncompressed (RFC 4995)
- 0x0001 ROHC RTP (RFC 3095, RFC 4815)
- 0x0002 ROHC UDP (RFC 3095, RFC 4815)
- 0x0003 ROHC ESP (RFC 3095, RFC 4815)
- 0x0004 ROHC IP (RFC 3843, RFC 4815)
- 0x0006 ROHC TCP (RFC 4996)

- 0x0101 ROHCv2 RTP (RFC 5225)
- 0x0102 ROHCv2 UDP (RFC 5225)
- 0x0103 ROHCv2 ESP (RFC 5225)
- 0x0104 ROHCv2 IP (RFC 5225)

A UE that supports one or more of the listed ROHC profiles shall support ROHC profile 0x0000 ROHC uncompressed (RFC 4995).

'IMS capable UEs supporting voice' shall support ROHC profiles 0x0000, 0x0001, 0x0002 and be able to compress and decompress headers of PDCP SDUs at a PDCP SDU rate corresponding to supported IMS voice codecs.

4.3.1.2 maxNumberROHC-ContextSessions

This field defines the maximum number of header compression context sessions supported by the UE, excluding context sessions that leave all headers uncompressed.

4.3.2 RLC parameters

- 4.3.2.1 Void
- 4.3.3 Void

4.3.4 Physical layer parameters

4.3.4.1 ue-TxAntennaSelectionSupported

This field defines whether the UE supports transmit antenna selection.

4.3.4.2 ue-SpecificRefSigsSupported

This field defines whether the UE supports PDSCH transmission mode 7 for FDD.

4.3.4.3 Void

4.3.4.4 enhancedDualLayerFDD

This field defines whether the UE supports enhanced dual layer (PDSCH transmission mode 8) for FDD.

4.3.4.5 enhancedDualLayerTDD

This field defines whether the UE supports enhanced dual layer (PDSCH transmission mode 8) for TDD. Enhanced dual layer shall be supported by UEs of this version of the specification supporting TDD.

4.3.4.6 supportedMIMO-CapabilityUL-r10

This field defines the number of spatial multiplexing layers in the uplink direction in a certain supportedBandCombination supported by the UE.

4.3.4.7 supportedMIMO-CapabilityDL-r10

This field defines the number of spatial multiplexing layers in the downlink direction in a certain supportedBandCombination supported by the UE.

The support for more layers in *supportedMIMO-CapabilityDL* than given by the 'maximum number of supported layers for spatial multiplexing in DL' derived from the *ue-Category* in the *UE-EUTRA-Capability* IE is only applicable to transmission mode 9.

4.3.4.8 two-AntennaPortsForPUCCH-r10

This field defines whether the UE supports transmit diversity for PUCCH formats 1/1a/1b/2/2a/2b, and if the UE supports PUCCH format 3, transmit diversity for PUCCH format 3.

4.3.4.9 tm9-With-8Tx-FDD-r10

This field defines whether the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports for FDD.

4.3.4.10 pmi-Disabling-r10

This field defines whether the UE supports PMI disabling.

4.3.4.11 crossCarrierScheduling-r10

This field defines whether the UE supports cross carrier scheduling operation for carrier aggregation, including (if the UE supports carrier aggregation in UL) the use of PCell as the pathloss reference for a SCell when *pathlossReference-r10* within *UplinkPowerControlDedicatedSCell-r10* is configured as "pCell". The UE supports PDCCH DCI formats with CIF if the UE indicates support for cross carrier scheduling.

NOTE: Regardless of whether the UE supports cross carrier scheduling operation or not, it is mandatory for a UE supporting carrier aggregation in UL to support the configuration where *pathlossReference-r10* within *UplinkPowerControlDedicatedSCell-r10* is set to 'sCell'.

4.3.4.12 simultaneousPUCCH-PUSCH-r10

This field defines whether the UE baseband supports simultaneous transmission of PUCCH and PUSCH, and is band agnostic. If the UE indicates support of baseband capability for simultaneous transmission of PUCCH and PUSCH using this field, and if the UE indicates support of RF capability for non-contiguous UL resource allocation within a component carrier for a particular E-UTRA radio frequency band, then the UE supports simultaneous transmission of PUCCH and PUSCH within each component carrier of the band. If the UE indicates support of baseband capability for simultaneous transmission of PUCCH and PUSCH using this field, and if the UE indicates support of carrier aggregation in UL, then the UE supports simultaneous transmission of PUCCH and PUSCH across any UL component carriers which the UE can aggregate.

4.3.4.13 multiClusterPUSCH-WithinCC-r10

This field defines whether the UE baseband supports multi-cluster PUSCH transmission within a component carrier (i.e. PUSCH resource allocation type 1), and is band agnostic. If the UE indicates support of baseband capability for multi-cluster PUSCH transmission within a component carrier using this field, and if the UE indicates support of RF capability for non-contiguous UL resource allocation within a component carrier for a particular E-UTRA radio frequency band, then the UE supports multi-cluster PUSCH transmission within each component carrier of the band.

NOTE: If the UE indicates support of carrier aggregation in UL, then the UE supports PUSCH transmissions over non-contiguous resource blocks across any UL component carriers which the UE can aggregate, regardless of whether or not the UE indicates support of baseband capability for multi-cluster PUSCH transmission within a component carrier using this field..

4.3.4.14 nonContiguousUL-RA-WithinCC-Info-r10

This field defines whether the UE RF supports non-contiguous UL resource allocations within a component carrier, and is signalled per E-UTRA radio frequency band which the UE supports.

4.3.4.15	Void
4.3.4.16	Void
4.3.4.17	Void
4.3.4.18	Void
4.3.4.19	Void
4.3.4.20	Void
4.3.4.21	Void
4.3.4.22	Void
4.3.4.23	Void
4.3.4.24	tm5-FDD

This field defines whether the UE supports PDSCH transmission mode 5 for FDD.

4.3.4.25 *tm5-TDD*

This field defines whether the UE supports PDSCH transmission mode 5 for TDD.

4.3.5 RF parameters

4.3.5.1 supportedBandListEUTRA

This field defines which E-UTRA radio frequency bands [6] are supported by the UE. For each band, support for either only half duplex operation, or full duplex operation is indicated. For TDD, the half duplex indication is not applicable.

4.3.5.2 supportedBandCombination

This field defines the carrier aggregation and MIMO capabilities supported by the UE for configurations with interband, intra-band non-contiguous, intra-band contiguous carrier aggregation and without carrier aggregation. For each band in a band combination the UE provides the supported CA bandwidth classes and the corresponding MIMO capabilities for the downlink. The UE also has to provide the supported uplink CA bandwidth class and the corresponding MIMO capability for at least one band in the band combination. A MIMO capability applies to all carriers of a bandwidth class of a band in a band combination.

In all non-CA band combinations the UE shall indicate a bandwidth class supporting the maximum channel bandwidth defined for the band.

In all non-CA band combinations the UE shall indicate at least the number of layers for spatial multiplexing according to the UE"s Rel-8/9 category (Cat. 1-5). If the UE provides a Rel-10 category (Cat. 6-8) it shall indicate at least the number of layers according to that category for at least one band combination. In all other band combinations a UE indicating a category between 2 and 8 shall indicate support for at least 2 layers for downlink spatial multiplexing for all bands. The indicated number of layers for spatial multiplexing may exceed the number of layers required according to the category indicated by the UE. The carrier aggregation and MIMO capabilities indicated for at least one band combination shall meet the processing requirements defined by the physical layer parameter values in the UE category (i.e., maximum number of DL-SCH/UL-SCH transport block bits received/transmitted within a TTI, maximum number of bits of a DL-SCH/UL-SCH transport block received/transmitted within a TTI, and total number of soft channel bits for downlink).

NOTE: For the purposes of determining whether the carrier aggregation and MIMO capabilities indicated for a band combination meets the processing requirements defined by the physical layer parameter values in the UE category as described above, the carrier aggregation and MIMO capabilities indicated for a band combination is considered to meet the processing requirements if the UE supports the maximum processing requirements defined by the UE category assuming 20MHz channel bandwidth is supported on all bands.

4.3.6 Measurement parameters

4.3.6.1 interFreqNeedForGaps and interRAT-NeedForGaps

These fields define for each supported E-UTRA band whether measurement gaps are required to perform measurements on each other supported E-UTRA radio frequency band and on each supported RAT/band combination. A UE also indicates for each band combination as in the *supportedBandCombination* whether measurement gaps are required to perform measurements on each supported E-UTRA radio frequency band and on each supported RAT/band combination.

4.3.7 Inter-RAT parameters

4.3.7.1 Support of UTRA FDD

This parameter defines whether the UE supports UTRA FDD.

A UE that supports UTRAN FDD shall support inter-RAT PS handover to UTRAN.

4.3.7.2 supportedBandListUTRA-FDD

Only applicable if the UE supports UTRA FDD. This field defines which UTRA FDD radio frequency bands are supported by the UE.

4.3.7.3 Support of UTRA TDD 1.28 Mcps

This parameter defines whether the UE supports UTRA TDD 1.28 Mcps.

A UE that supports UTRAN TDD 1.28 Mcps shall support inter-RAT PS handover to UTRAN.

4.3.7.4 supportedBandListUTRA-TDD128

Only applicable if the UE supports UTRA TDD 1.28~Mcps. This field defines which UTRA TDD 1.28~Mcps radio frequency bands are supported by the UE.

4.3.7.5 Support of UTRA TDD 3.84 Mcps

This parameter defines whether the UE supports UTRA TDD 3.84 Mcps.

A UE that supports UTRAN TDD 3.84 Mcps shall support inter-RAT PS handover to UTRAN.

4.3.7.6 supportedBandListUTRA-TDD384

Only applicable if the UE supports UTRA TDD 3.84 Mcps. This field defines which UTRA TDD 3.84 Mcps radio frequency bands are supported by the UE.

4.3.7.7 Support of UTRA TDD 7.68 Mcps

This parameter defines whether the UE supports UTRA TDD 7.68 Mcps.

A UE that supports UTRAN TDD 7.68 Mcps shall support inter-RAT PS handover to UTRAN.

4.3.7.8 supportedBandListUTRA-TDD768

Only applicable if the UE supports UTRA TDD 7.68 Mcps. This field defines which UTRA TDD 7.68 Mcps radio frequency bands are supported by the UE.

4.3.7.9 Support of GERAN

This parameter defines whether the UE supports GERAN.

4.3.7.10 supportedBandListGERAN

Only applicable if the UE supports GERAN. This field defines which GERAN radio frequency bands are supported by the UE.

4.3.7.11 interRAT-PS-HO-ToGERAN

Only applicable if the UE supports GERAN. This field defines whether the UE supports inter-RAT PS handover to GERAN.

4.3.7.12 Support of HRPD

This parameter defines whether the UE supports HRPD.

4.3.7.13 supportedBandListHRPD

Only applicable if the UE supports HRPD. This field defines which HRPD radio frequency bands are supported by the UE

4.3.7.14 tx-ConfigHRPD

Only applicable if the UE supports HRPD. This field defines whether the UE supports single or dual transmitter. With dual transmitter, UE can transmit simultaneously on both E-UTRAN and HRPD.

4.3.7.15 rx-ConfigHRPD

Only applicable if the UE supports HRPD. This field defines whether the UE supports single or dual receiver. With dual receiver, UE can receive simultaneously on both E-UTRAN and HRPD.

4.3.7.16 Support of 1xRTT

This parameter defines whether the UE supports 1xRTT.

4.3.7.17 supportedBandList1XRTT

Only applicable if the UE supports 1xRTT. This field defines which 1xRTT radio frequency bands are supported by the UE.

4.3.7.18 tx-Config1XRTT

Only applicable if the UE supports 1xRTT. This field defines whether the UE supports single or dual transmitter. With dual transmitter, UE can transmit simultaneously on both E-UTRAN and 1xRTT.

4.3.7.19 rx-Config1XRTT

Only applicable if the UE supports 1xRTT. This field defines whether the UE supports single or dual receiver. With dual receiver, UE can receive simultaneously on both E-UTRAN and 1xRTT.

4.3.7.20 e-CSFB-1XRTT

Only applicable if the UE supports CDMA2000 1xRTT. This field defines whether the UE supports enhanced 1xRTT CS fallback.

4.3.7.21 e-CSFB-ConcPS-Mob1XRTT

Only applicable if the UE supports CDMA2000 1xRTT and CDMA2000 HRPD simultaneously. This field defines whether the UE supports concurrent enhanced CS fallback to CDMA2000 1xRTT and handover/redirection to CDMA2000 HRPD.

4.3.7.22 e-RedirectionUTRA

This parameter defines whether the UE supports use of UTRA system information provided by *RRCConnectionRelease* upon redirection.

4.3.7.23 e-RedirectionGERAN

This parameter defines whether the UE supports use of GERAN system information provided by *RRCConnectionRelease* upon redirection.

A UE that supports CS fallback to GERAN shall support e-Redirection to GERAN.

4.3.7.24 dtm

This parameter defines whether the UE supports Dual Transfer Mode (DTM) in GERAN.

4.3.7.25 e-CSFB-dual-1XRTT

Only applicable if the UE supports CDMA2000 1xRTT, dual transmitter (i.e. UE can transmit simultaneously on both E-UTRAN and 1xRTT) and dual receiver (i.e. UE can receive simultaneously on both E-UTRAN and 1xRTT). This field defines whether the UE supports dual receiver/transmitter enhanced 1xRTT CS fallback (dual Rx/Tx e1xCSFB).

4.3.7.26 e-RedirectionUTRA-TDD

This parameter defines whether the UE supports redirection to multiple carrier frequencies both with and without using UTRA TDD system information for cells on multiple carrier frequencies provided by *RRCConnectionRelease*.

4.3.7.27 Void

4.3.7.28 *mfbi-UTRA*

This field is only applicable for a UE supporting UTRA FDD. It indicates if the UE supports the signalling requirements of multiple radio frequency bands in a UTRA FDD cell, as defined in TS 25.307 [18].

4.3.8 General parameters

4.3.8.1 accessStratumRelease

This field defines the release of the E-UTRA layer 1, 2, and 3 specifications supported by the UE e.g. Rel-8, Rel-9, etc.

4.3.8.2 deviceType

This field defines whether the device does not benefit from NW-based battery consumption optimisation.

4.3.9 Void

4.3.10 CSG Proximity Indication parameters

4.3.10.1 intraFreqProximityIndication

This parameter defines whether the UE supports proximity indication for intra-frequency E-UTRAN cells whose CSG Identities are in the UE"s CSG Whitelist.

4.3.10.2 interFreqProximityIndication

This parameter defines whether the UE supports proximity indication for inter-frequency E-UTRAN cells whose CSG Identities are in the UE's CSG Whitelist.

4.3.10.3 utran-ProximityIndication

This parameter defines whether the UE supports proximity indication for UTRAN cells whose CSG IDs are in the UE"s CSG Whitelist.

4.3.11 Neighbour cell SI acquisition parameters

4.3.11.1 intraFreqSI-AcquisitionForHO

This parameter defines whether the UE supports, upon configuration of *si-RequestForHO* by the network, acquisition of relevant information from a neighbouring intra-frequency cell by reading the SI of the neighbouring cell using autonomous gaps and reporting the acquired information to the network as specified in [5].

4.3.11.2 interFreqSI-AcquisitionForHO

This parameter defines whether the UE supports, upon configuration of *si-RequestForHO* by the network, acquisition of relevant information from a neighbouring inter-frequency cell by reading the SI of the neighbouring cell using autonomous gaps and reporting the acquired information to the network as specified in [5].

4.3.11.3 utran-SI-AcquisitionForHO

This parameter defines whether the UE supports, upon configuration of *si-RequestForHO* by the network, acquisition of relevant information from a neighbouring UMTS cell by reading the SI of the neighbouring cell using autonomous gaps and reporting the acquired information to the network as specified in [5].

4.3.12 SON parameters

4.3.12.1 rach-Report

This parameter defines whether the UE supports delivery of *rachReport* upon request from the network.

4.3.13 UE-based network performance measurement parameters

4.3.13.1 loggedMeasurementsIdle

This parameter defines whether the UE supports logged measurements in RRC_IDLE upon request from the network. A UE that supports logged measurements in RRC_IDLE shall also support a minimum of 64kB memory for log storage.

4.3.13.2 standaloneGNSS-Location

This parameter defines whether the UE is equipped with a standalone GNSS receiver that may be used to provide detailed location information in RRC measurement report and logged measurements in RRC_IDLE.

4.3.14 IMS Voice parameters

4.3.14.1 voiceOver-PS-HS-UTRA-FDD

Only applicable if the UE supports UTRA FDD. This parameter defines whether the UE supports IMS Voice in UTRA FDD according to GSMA IR.58 profile.

4.3.14.2 voiceOver-PS-HS-UTRA-TDD128

Only applicable if the UE supports UTRA TDD 1.28Mcps. This parameter defines whether the UE supports IMS Voice in UTRA TDD 1.28Mcps.

4.3.14.3 srvcc-FromUTRA-FDD-ToGERAN

Only applicable if the UE supports UTRA FDD and GERAN. This parameter defines whether the UE supports SRVCC handover from UTRA FDD PS HS to GERAN CS.

4.3.14.4 srvcc-FromUTRA-FDD-ToUTRA-FDD

Only applicable if the UE supports UTRA FDD. This parameter defines whether the UE supports SRVCC handover from UTRA FDD PS HS to UTRA FDD CS.

4.3.14.5 srvcc-FromUTRA-TDD128-ToGERAN

Only applicable if the UE supports UTRA TDD 1.28Mcps and GERAN. This parameter defines whether the UE supports SRVCC handover from UTRA TDD 1.28Mcps PS HS to GERAN CS.

4.3.14.6 srvcc-FromUTRA-TDD128-ToUTRA-TDD128

Only applicable if the UE supports UTRA TDD 1.28Mcps. This parameter defines whether the UE supports SRVCC handover from UTRA TDD 1.28Mcps PS HS to UTRA TDD 1.28Mcps CS.

4.3.15 Void

4.3.16 Positioning parameters

4.3.16.1 otdoa-UE-assisted

This parameter defines whether the UE supports UE-assisted OTDOA positioning [13].

4.3.16.2 interFreqRSTDmeasurement

This parameter defines whether the UE supports inter-frequency RSTD measurements for OTDOA positioning [13].

5 Void

Optional features without UE radio access capability parameters

The following subclauses list the optional UE features not having UE radio access capability.

NOTE: This chapter does not yet contain complete analysis of all features of this release of specification.

6.1 CSG features

It is optional for UE to support some parts of CSG cell and hybrid cell reselection features as specified in [5, B.2].

6.2 PWS features

6.2.1 ETWS

It is optional for UE to support ETWS reception as specified in [5].

6.2.2 CMAS

It is optional for UE to support CMAS reception as specified in [5].

6.2.3 KPAS

It is optional for UE to support KPAS reception as specified in [5]. The Korean Public Alert System (KPAS) uses the same AS mechanisms as defined for CMAS. Therefore a KPAS-capable UE shall support all behaviour that is included in [5] and [14] for a CMAS-capable UE.

6.3 MBMS features

It is optional for UE to support MBMS procedures as specified in [5].

- 6.4 Void
- 6.5 Positioning features
- 6.5.0 UE Rx Tx time difference

It is optional for UE to support ue-RxTxTimeDiffResult as specified in [5][13].

- 6.5.1 Void
- 6.6 Void
- 6.7 Void
- 6.8 Void
- 6.9 Void

7 Conditionally Mandatory features

7.1 Access control features

7.1.1 SSAC

It is mandatory to support Service Specific Access Control as specified in [5, 5.3.3.10] for UEs which are IMS voice capable in LTE.

7.1.2 CSFB Access Barring Control

It is mandatory to support CSFB Access Barring Control as specified in [5, 5.3.3.2] for UEs which are supporting CSFB to UTRA or GERAN.

7.2 Emergency call features

7.2.1 IMS emergency call

It is mandatory to support IMS emergency call for UEs which are IMS voice capable in LTE.

7.3 MAC features

7.3.1 SR mask

It is mandatory to support configuration indicated by *logicalChannelSR-Mask* for UE which have set bit number 29 of *featureGroupIndicators* to '1' as specified in [5].

7.3.2 Power Management Indicator in PHR

Power management indicator in PHR is mandatory to support for UE applying additional power backoff due to power management (as allowed by P-MPR_c [6]).

7.4 Inter-RAT Mobility features

7.4.1 High Priority CSFB redirection

It is mandatory to support the *RRCConnectionRelease* indicating 'cs-FallbackHighPriority' for UEs which are supporting CSFB to UTRA as specified in [5].

7.5 Delay Tolerant Access Features

7.5.1 extendedWaitTime

It is mandatory to support the RRCConnectionRelease with extendedWaitTime or RRCConnectionReject with extendedWaitTime for UEs which do support Delay Tolerant Access as specified in [5].

7.6 RRC Connection

7.6.1 Additional Spectrum Emission

It is mandatory to support handling of additional Spectrum Emission PCell for UEs which are carrier aggregation capable.

7.7 Positioning features

7.7.1 OTDOA Inter-frequency RSTD measurement indication

It is mandatory to support delivery of *InterFreqRSTDMeasurementIndication* as specified in [5, 5.5.7] for UEs indicating support for inter-frequency RSTD measurements for OTDOA [13] and requiring measurement gaps for performing these measurements.

Annex A (informative): Guideline on maximum number of DL PDCP SDUs per TTI

In order to help the dimensioning of the UE design, values for the maximum number of DL PDCP SDUs per TTI from Table A-1 may be used.

Note: Due to the need for the network buffer data for efficient scheduling, values for Category 1 and 2 are same. It is not expected that category 1 UE has to sustain the same rate of PDCP SDUs per TTI as category 2 for prolonged period of time.

Table A-1: Maximum values for DL PDCP SDUs per TTI

UE Category	Maximum number of PDCP SDUs per TTI
Category 1	10
Category 2	10
Category 3	20
Category 4	30
Category 5	50
Category 6	50
Category 7	50

Annex B (informative): Change history

	_				Change history		
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
11/2007	RP-38	RP-070916			Presented for approval at TSG RAN-38	0.2.0	1.0.0
12/2007		-			Approved at TSG RAN-38 and placed under change control	1.0.0	8.0.0
03/2008	RP-39	RP-080194	0001	1	CR to 36.306 with Update to E-UTRA UE capabilities	8.0.0	8.1.0
05/2008	RP-40	RP-080409	0002	1	Update to E-UTRA UE capabilities: CR 0002r1 to 36.306 with status after RAN2 #62	8.1.0	8.2.0
03/2009	RP-43	RP-090126	0007		CR to remove the sections on MBMS	8.2.0	8.3.0
03/2009	RP-43	RP-090126	0007	-	Final values for L2 buffer sizes	8.2.0	8.3.0
	RP-43	RP-090126	0009	-	Various Corrections	8.2.0	8.3.0
	RP-43	RP-090126	0009	-	CR to update uplink transmit diversity (UE transmit antenna	8.2.0	8.3.0
					selection)		
	RP-43	RP-090126	0011	-	Downlink PDCP SDU limitation	8.2.0	8.3.0
	RP-43	RP-090126	0014	-	Thoughts on UE capability for RoHC	8.2.0	8.3.0
	RP-43	RP-090126	0015	1	Capturing USIMless UE to stage 3	8.2.0	8.3.0
06/2009	RP-44	RP-090511	0016	2	Support of inter-RAT PS handover to GERAN Editor Note Removal	8.3.0	8.4.0
	RP-44	RP-090511	0017	1	Clarification of Half Duplex in TDD	8.3.0	8.4.0
	RP-44	RP-090511	0018	-	Correcting the maximum number of bits received during one TTI	8.3.0	8.4.0
	RP-44	RP-090511	0019	-	Clarification of field names used in TS 36.331	8.3.0	8.4.0
	RP-44	RP-090511	0013	 	Clarification on disabling E-UTRA capabilities with a USIM	8.3.0	8.4.0
09/2009	RP-45	RP-090906	0023	-	Unit for "Total layer 2 buffer size"	8.4.0	8.5.0
12/2009	RP-46	-	-		Upgrade to the Release 9 - no technical change	8.5.0	9.0.0
03/2010	RP-47	RP-100308	0024	1	CR to 36.306 on Optionality of Rel-9 UE features	9.0.0	9.1.0
00/2010	RP-47	RP-100308	0025	<u>'</u>	Introduction of power-limited device indication in UE capability.	9.0.0	9.1.0
	RP-47	RP-100308	0026	-	UE capability for enhanced 1xRTT CS fallback	9.0.0	9.1.0
	RP-47	RP-100285	0028	1	Bounds to RoHC requirements for IMS capable UEs supporting		9.1.0
	RP-47	RP-100309	0029	1	voice CR to 36.306 on Redirection enhancements to UTRAN	9.0.0	9.1.0
	RP-47	RP-100309	0029	1	Redirection enhancements to GERAN	9.0.0	9.1.0
06/2010	RP-48	RP-100166	0030	1	Clarification regarding / alignment of REL-9 UE capabilities	9.0.0	9.1.0
06/2010	RP-48	RP-100536	0033	1	Correction on the definition of ue-SpecificRefSigsSupported	9.1.0	9.2.0
09/2010	RP-49	RP-100331	0035	-	Clarification of MBMS UE capability	9.1.0	9.2.0
12/2010	RP-50	RP-100653	0033	-	Inclusion of new UE categories in Rel-10	9.2.0	10.0.0
03/2011	RP-51	RP-110290	0037	+	Description of carrier aggregation and MIMO capabilities	10.0.0	10.0.0
03/2011	RP-51	RP-110290	0039	+	L2 buffer sizes for Rel-10 categories	10.0.0	10.1.0
	RP-51	RP-110280	0033	-	CR to 36.306 adding UE capability indicator for dual Rx/Tx	10.0.0	10.1.0
	DD 54	DD 440000	00.40		e1xCSFB	40.00	40.40
	RP-51	RP-110288	0042	1	UE UL&DL MIMO Capabilities	10.0.0	10.1.0
00/0044	RP-51	RP-110282	0043	-	Counter proposal to R2-110795 on UE capabilities for MDT	10.0.0	10.1.0
06/2011	RP-52	RP-110828	0048	-	Clarification of optionality of UE features without capability	10.1.0	10.2.0
	RP-52	RP-110830	0051	-	Options for CSFB to GSM	10.1.0	10.2.0
	RP-52	RP-110840	0056	1	CR to 36.306 on UE capabilities for Rel-10 LTE features	10.1.0	10.2.0
	RP-52 RP-52	RP-110701 RP-110839	0058 0062	2	CA and MIMO Capabilities in LTE Rel-10 Introduction of UE capability for enhanced redirection to UTRA	10.1.0 10.1.0	10.2.0 10.2.0
					TDD		
	RP-52	RP-110834	0063	2	Clarification of "supportedMIMO-CapabilityDL"	10.1.0	10.2.0
	RP-52	RP-110627	0064	-	Correction of "total number of soft channel bits" for category 6 and 7	10.1.0	10.2.0
09/2011	RP-53	RP-111291	0065	-	The SON feature in optional features without UE radio access capability parameters	10.2.0	10.3.0
	RP-53	RP-111283	0067	1-	AdditionalSpectrumEmissions in CA	10.2.0	10.3.0
	RP-53	RP-111278	0069	-	Correction to UE capability parameters for handover to CSG cell	10.2.0	10.3.0
12/2011	RP-54	RP-111716	0070	1	Corrections to enhancedDualLayerTDD	10.3.0	10.4.0
12/2011	RP-54	RP-111710	0070	<u> </u>	Optionality of SR Masking	10.3.0	10.4.0
	RP-54	RP-111710	0072	1	Optionality of SR Masking Optionality of UE Rx-Tx time difference report	10.3.0	10.4.0
	RP-54	RP-111709	0074	1	Correction to the number of soft channel bits		
03/2012				1-		10.3.0	10.4.0
03/2012	RP-55 RP-55	RP-120321	0078 0080	1	Clarification on physical layer parameter values requirement Clarification on number of PDCP SDUs for categories 6-7 UEs	10.4.0	10.5.0
	RP-55	RP-120326 RP-120326	0082	1	UE processing requirement in the presence of MCH	10.4.0	10.5.0 10.5.0
	111 -00	141 - 120020	0002		transmission	10.4.0	10.3.0

06/2012	RP-56	RP-120813	0090	-	Korean Public Alert System (KPAS) in relation to CMAS	10.5.0	10.6.0
09/2012	RP-57	RP-121359	0099	-	Voice support Capabilities	10.6.0	10.7.0
	RP-57	RP-121395	0104	-	Clarification on spatial multiplexing requirement in supportedBandCombination	10.6.0	10.7.0
12/2012	RP-58	RP-121936	0119	-	Power Management Indicator in PHR	10.7.0	10.8.0
	RP-58	RP-121936	0123	1	Clarification on UL CA in supportedBandCombination	10.7.0	10.8.0
03/2013	RP-59	RP-130233	0134	-	MIMO capability related correction	10.8.0	10.9.0
	RP-59	RP-130233	0141	-	Clarification on cross carrier scheduling capability	10.8.0	10.9.0
	RP-59	RP-130226	0145	-	Introduction of PDSCH TM5 capabilities for FDD and TDD	10.8.0	10.9.0
09/2013	RP-61	RP-131315	0150	-	Remove TBD in max MCH TB size table	10.9.0	10.10.0
	RP-61	RP-131314	0152	-	Clarification of InterFreqRSTDMeasurementIndication procedure support	10.9.0	10.10.0
12/2013	RP-62	RP-131986	0159	1	Introduction of capability bit for UTRA MFBI	10.10.0	10.11.0
	RP-62	RP-131991	0162	-	Clarification on eRedirection to UMTS TDD with multiple UMTS TDD frequencies	10.10.0	10.11.0
	RP-62	RP-131984	0164	-	Addition of inter-frequency RSTD measurement capability indicator for OTDOA	10.10.0	10.11.0

History

	Document history						
V10.0.0	January 2011	Publication					
V10.1.0	April 2011	Publication					
V10.2.0	June 2011	Publication					
V10.3.0	November 2011	Publication					
V10.4.0	January 2012	Publication					
V10.5.0	March 2012	Publication					
V10.6.0	July 2012	Publication					
V10.7.0	October 2012	Publication					
V10.8.0	February 2013	Publication					
V10.9.0	April 2013	Publication					
V10.10.0	September 2013	Publication					
V10.11.0	January 2014	Publication					