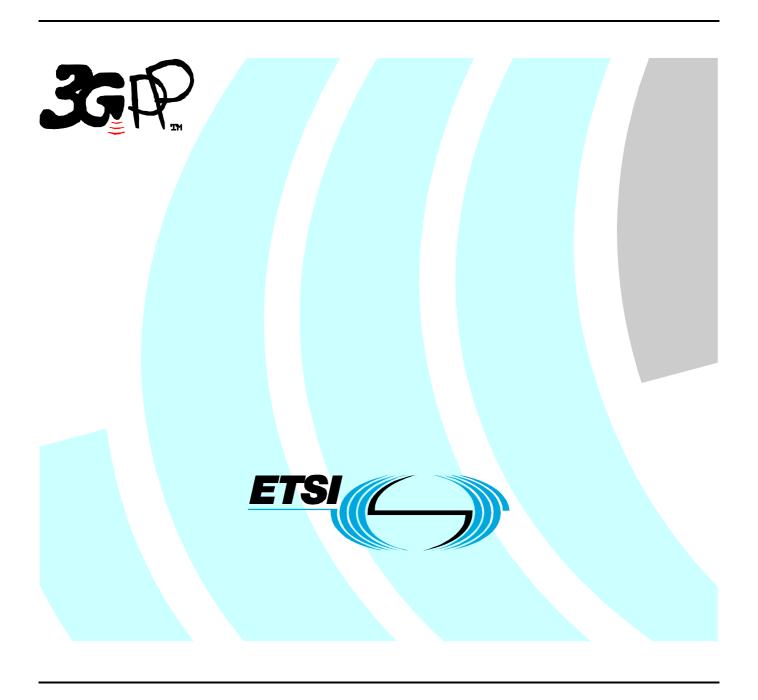
ETSI TS 125 307 V9.3.0 (2011-07)

Technical Specification

Universal Mobile Telecommunications System (UMTS); Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 25.307 version 9.3.0 Release 9)



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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 specifies requirements on UEs supporting a frequency band that is independent of release. TSG-RAN has agreed that the standardisation of new frequency bands may be independent of a release. However, in order to implement a UE that conforms to a particular release but supports a band of operation that is specified in a later release, it is necessary to specify some extra requirements.

For example, Band III is contained in the Release 5 specifications. In order to implement a UE conforming to Release '4 but supporting Band III, it is necessary for the UE to additionally conform to some parts of the Release 5 specifications, such as the radio frequency requirements for the Band III and some signalling extensions relating to the UE radio access capabilities.

All frequency bands are fully specified in this release of the specifications. The present document does not contain any requirements for UEs supporting frequency bands independent of release.

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] to [21] Void.

 [22] 3GPP TS 25.331 (Release 10, version 10): "Radio Resource Control Protocol".

 [23] 3GPP TS 25.101 (Release 10, version 10): "UE Radio Transmission and Reception (FDD)".

 [24] 3GPP TS 25.133 (Release 10, version 10): "Requirements for Support of Radio Resource Management (FDD)".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in [1] apply.

3.2 Abbreviations

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

FDD Frequency Division Duplex RRC Radio Resource Control UE User Equipment

4	Void	
5	Void	
6	Void	
7	Void	
8	Void	
9	Void	
10	Void	
11	Void	
12	Void	
13	Void	
14	Void	

15	Void	
16	Void	
17	Void	
18	Void	
19	Void	
20	Void	
21	Void	
22	Void	

23 Band XXV Independent of Release

Band XXV is specified in Release 10 but is defined as a release-independent frequency band. This approach aligns the Band XXV band with other frequency bands when considering features that have to be supported in different releases.

23.1 Band XXV UE

UEs that conform to Release 9 and support band XXV shall support the following requirements in Release 10.

23.1.1 RF Requirements

The UE shall comply with the RF requirements for band XXV specified in [23]. These requirements are:

Section / Clause	Description
5	Frequency bands and channel arrangement
6.2.1	UE maximum output power
6.6	Output RF spectrum emissions
7.3	Reference sensitivity level
7.6	Blocking characteristics
7.8	Intermodulation characteristics
7.9	Spurious emissions
B2.2	Multi-path fading propagation conditions

The UE shall comply with the following Radio Resource Management requirements for band XXV specified in [24]. These requirements are:

Section / Clause	Description
9.1	Measurement Performances for UE.

23.1.2 Signalling Requirements

The UE shall support the following RRC extensions specified in [22]:

- The parameter value "Band XXV" for the IE "FDD frequency band 3" contained within the IEs "UE radio access capability extension" and "Measurement capability extension". The UE shall use this parameter value in order to signal its radio access capabilities relating to band XXV.
- The IEs "Frequency band indicator", "Frequency band indicator 2" and "Frequency band indicator 3" contained within the IEs "System Information Block type 5", "System Information Block type 5bis" and "System Information Block type 6". The UE shall use these IEs to determine whether it is compliant with the RF requirement in the indicated frequency band, in case the UE is in the frequency that belongs to multiple frequency bands.

The UE shall be able to at least decode any unrelated RRC extensions that can be included in between the release it supports, and the IE "Frequency band indicator" and "Frequency Band Indicator 2" and "Frequency band indicator 3".

Annex A (informative): Change history

	Change history						
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
09/2001	RP-13	RP-010557			Approved at TSG-RAN #13 and placed under Change Control	-	3.0.0
	RP-13	RP-010558	001	1	Correction to create Release 4	3.0.0	4.0.0
12/2001	RP-14	RP-010759	003		Inclusion of release independent RF related information	4.0.0	4.1.0
03/2002	RP-15	RP-020096	004		Creation of Rel-5 specification	4.1.0	5.0.0
12/2003	RP-22	RP-030630	010		Introduction of UMTS800	5.0.0	6.0.0
03/2004	RP-23	RP-040092	016	1	Frequency band alignment with 25.101	6.0.0	6.1.0
	RP-23	RP-040090	023		Introduction of UMTS1700/2100 (Band IV)	6.0.0	6.1.0
	RP-23	RP-040091	027		Introduction of UMTS850(Band V)	6.0.0	6.1.0
09/2005	RP-29	RP-050467	0038		Introduction of UMTS2600 internal band, Band VII	6.1.0	6.2.0
12/2005	RP-30	RP-050800	0042		Introduction of UMTS 900 (Band VIII)	6.2.0	6.3.0
	RP-30	RP-050801	0034		Introduction of UMTS1700	6.2.0	6.3.0
06/2006	RP-32	RP-060369	0043		Creation of release 7 version	6.3.0	7.0.0
12/2006	RP-34	RP-060715	0057		Introduction of Band X (Extended UMTS 1.7/2.1 GHz) in 25.307	7.0.0	7.1.0
09/2007	RP-37	RP-070633	0066		Introduction of Band XI	7.1.0	8.0.0
03/2008	RP-39	RP-080200	0072	-	Introduction of UMTS 700 MHz (Bands XII – XIV) in 25.307	8.0.0	8.1.0
09/2008	RP-41	RP-080676	0077	-	Introduction of UMTS Band d in 25.307	8.1.0	8.2.0
09/2008	RP-41	RP-080695	0082	-	Introduction of UMTS Band e in 25.307	8.1.0	8.2.0
03/2009	RP-43	RP-090146	0087	-	Introduction of UMTS Band f in 25.307	8.2.0	8.3.0
09/2009	RP-45	RP-090921	0089	-	Introduction of Band XIX	8.3.0	8.4.0
09/2009	RP-45	RP-090921	8800	1	Introduction of Band XIX	8.4.0	9.0.0
12/2009	RP-46	RP-091333	0094	-	Editorial corrections for Introduction of Band XIX	9.0.0	9.1.0
	RP-46	RP-091335	0100	1	Introduction of band XXI - 25.307	9.0.0	9.1.0
03/2010	RP-47	RP-100302	0106	-	Introduction of band XX (800 MHz)	9.1.0	9.2.0
06/2011	RP-52	RP-110844	0140	1	Add Expanded 1900 MHz Band for UTRA and LTE to TS25.307	9.2.0	9.3.0

History

Document history				
V9.1.0	February 2010	Publication		
V9.2.0	April 2010	Publication		
V9.3.0	July 2011	Publication		