

# ETSI TS 125 307 V7.2.0 (2007-10)

---

*Technical Specification*

**Universal Mobile Telecommunications System (UMTS);  
Requirements on User Equipments (UEs)  
supporting a release-independent frequency band  
(3GPP TS 25.307 version 7.2.0 Release 7)**

---



---

Reference

RTS/TSGR-0225307v720

---

Keywords

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

---

**Important notice**

Individual copies of the present document can be downloaded from:

<http://www.etsi.org>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at

<http://portal.etsi.org/tb/status/status.asp>

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

[http://portal.etsi.org/chaicor/ETSI\\_support.asp](http://portal.etsi.org/chaicor/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 2007.  
All rights reserved.

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

---

## Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: *"Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards"*, which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<http://webapp.etsi.org/IPR/home.asp>).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

---

## Foreword

This 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

Intellectual Property Rights .....	2
Foreword.....	2
Foreword.....	4
1 Scope .....	5
2 References .....	5
3 Definitions and abbreviations.....	5
3.1 Definitions .....	5
3.2 Abbreviations .....	5
4 Void.....	6
5 Void.....	6
6 Void.....	6
7 Void.....	6
8 Void.....	6
9 Void.....	6
10 Void.....	6
11 Void.....	6
12 Void.....	6
13 Band XI Independent of Release.....	6
13.1 Band XI UE.....	6
13.1.1 RF Requirements .....	7
13.1.2 Signalling Requirements.....	7
<b>Annex A (informative): Change history .....</b>	<b>8</b>
History .....	9

---

# Foreword

This Technical Specification has been produced by the 3<sup>rd</sup> 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 [13] Void.

[14] 3GPP TS 25.331 (Release 8, version 8): "Radio Resource Control Protocol".

[15] 3GPP TS 25.101 (Release 8, version 8): "UE Radio Transmission and Reception (FDD)".

[16] 3GPP TS 25.133 (Release 8, version 8): "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 Band XI Independent of Release

Band XI is specified in Release 8 but is defined as a release-independent frequency band. This approach aligns the Band XI band with other frequency bands when considering features that have to be supported in different releases.

### 13.1 Band XI UE

UEs that conform to Release 7 and support band XI shall support the following requirements in Release 8

### 13.1.1 RF Requirements

The UE shall comply with the RF requirements for band XI specified in [15]. 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 XI specified in [16]. These requirements are:

Section / Clause	Description
9.1	Measurement Performances for UE.

### 13.1.2 Signalling Requirements

The UE shall support the following RRC extensions specified in [14]:

- The parameter value "Band XI" for the IE "FDD frequency band" 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 XI.
- The IEs "Frequency band indicator" and "Frequency band indicator2" contained within the IEs "System Information Block type 5" 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".



## 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	0065		Introduction of Band XI	7.1.0	7.2.0

---

## History

<b>Document history</b>		
V7.0.0	June 2006	Publication
V7.1.0	December 2006	Publication
V7.2.0	October 2007	Publication