

Presentation of Specification to TSG or WG

Presentation to: TSG-RAN Meeting #13

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Abstract of document:

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, UMTS 1800 is contained in the Release 5 specifications. In order to implement a UE conforming to Release 99 but supporting the 1800 MHz band, 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 1800 MHz band and some signalling extensions relating to the UE radio access capabilities.

Changes since last presentation to TSG-RAN Meeting:

Incorporation of result of joint WG2/WG4 meeting in Berlin (July 2001) where it was agreed that both WGs have input to provide on this TS.

Outstanding Issues:

Work on the Work Items "UMTS 1800" and "UMTS 1900" in WG4 has not finished.

Contentious Issues:

None.

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Technical Specification

3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Requirements on UEs supporting a Release Independent Frequency Band; (Release 1999)



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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, UMTS 1800 is contained in the Release 5 specifications. In order to implement a UE conforming to Release 99 but supporting the 1800 MHz band, 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 1800 MHz band and some signalling extensions relating to the UE radio access capabilities.

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 25.101 (Release 5, version 5): "UE Radio Transmission and Reception (FDD)".
- [3] 3GPP TS 25.331 (Release 5, version 5): "Radio Resource Control Protocol".
- [4] 3GPP TS 25.331 (Release 99 version 3): "Radio Resource Control Protocol".

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 UMTS 1800 Independent of Release

UMTS 1800 is specified in Release 5 but is defined as a release-independent frequency band. This approach aligns the UMTS 1800 band with other frequency bands when considering features that have to be supported in different releases.

4.1 UMTS 1800 UE

UEs that conform to Release '99 and support the 1800 MHz frequency band shall support the following requirements in Release 5.

4.1.1 RF Requirements

The UE shall comply with the RF requirements for the 1800 MHz band specified in [2];

4.1.2 Signalling Requirements

The UE shall support the following RRC extensions specified in [3]:

- The parameter value "UMTS1800" 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 the 1800 MHz band.

5 UMTS 1900 Independent of Release

UMTS 1900 is specified in Release 5 but is defined as a release-independent frequency band. This approach aligns the UMTS 1900 band with other frequency bands when considering features that have to be supported in different releases.

5.1 UMTS 1900 UE

UEs that conform to Release '99 and support the 1900 MHz frequency band shall support the following requirements in Release 5

5.1.1 RF Requirements

The UE shall comply with the RF requirements for the 1900 MHz band specified in [2].

5.1.2 Signalling Requirements

Release '99 contains the necessary signalling for the 1900 MHz frequency band [4].

Annex A (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
06/2001	RP-12	RP-010326	-		<u>Proposed to be</u> Approved at TSG-RAN #12 and placed under Change Control	-	3.0.0
<u>09/2001</u>	<u>RP-13</u>	<u>RP-010557</u>			<u>For information to TSG-RAN #13 (WG4 has not finished work on the Work Item yet)</u>	-	-