TSG-RAN Meeting #23
Phoenix, USA, 10-12 March 2004

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RP-040093

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Title: Additional performance requirement for UMTS800

Source: TSG-RAN WG2

Agenda item: 8.10

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level	Workitem
25.307	011	-	R99	Additional performance requirement for UMTS800	F	3.2.0	3.3.0	R2-040221	Rinimp-UMTS800
25.307	012	-	Rel-4	Additional performance requirement for UMTS800	A	4.2.0	4.3.0	R2-040222	Rinimp-UMTS800
25.307	013	-	Rel-5	Additional performance requirement for UMTS800	A	5.1.0	5.2.0	R2-040223	Rinimp-UMTS800

CR-Form-v7

CHANGE REQUEST

⌘ **25.307** CR **11** ⌘ **rev** ⌘ Current version: **3.2.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME **X** Radio Access Network **X** Core Network ☐

Title:	⌘	Additional performance requirement for UMTS800	
Source:	⌘	RAN WG2	
Work item code:⌘	RinImp-UMTS800	*Date:* ⌘	1/13/04
Category:	⌘ **F**	*Release:* ⌘	R99

Use one of the following categories:
F (correction)
A (corresponds to a correction in an earlier release)
B (addition of feature),
C (functional modification of feature)
D (editorial modification)
Detailed explanations of the above categories can
be found in 3GPP TR 21.900.

Use one of the following releases:
2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)

Reason for change: ⌘	-	The performance requirement specific to UMTS800 is introduced into TS25.101 by R4-031131 agreed at RAN4#29 in San Diego. That should be an additional performance requirement for UEs that support UMTS800.
	-	In section 6.1.2 the NOTE contains a UE requirement which should not be in an informative note.
Summary of change:⌘	-	"Section 8: Performance requirement" in TS25.101 is added as one of the RF requirements for UEs that support UMTS800.
	-	In section 6.1.2 the NOTE changed to be a normative text.
Consequences if not approved: ⌘	-	The requirements for UMTS800 are insufficient.
	-	The NOTE contains a normative discription.

Clauses affected:	⌘	Section 6.1.1, 6.1.2

	Y	N		
Other specs ⌘		X	Other core specifications	⌘
affected:		X	Test specifications	
		X	O&M Specifications	

Other comments:	⌘	

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm.
Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

6 UMTS 800 Independent of Release

UMTS 800 is specified in Release 6 but is defined as a release-independent frequency band. This approach aligns the UMTS 800 band with other frequency bands when considering features that have to be supported in different releases.

6.1 UMTS 800 UE

UEs that conform to Release '99 and support the 800 MHz frequency band shall support the following requirements in Release 6

6.1.1 RF Requirements

The UE shall comply with the RF requirements for the 800 MHz band specified in [9]. These requirements are:

Section 5: Frequency bands and channel arrangement;

Section 6: Transmitter characteristics;

Section 7: Receiver characteristics;.

Section 8: Performance requirement.

Other requirements for radio reception and transmission requirements are defined in [5].

The UE shall comply with the Radio Resource Management requirements for the 800 MHz band specified in [10]. These requirements are:

Section 9.1: Measurement Performances for UE.

Other requirements for radio resource management are defined in [6].

6.1.2 Signalling Requirements

The UE shall support the following RRC extensions specified in [8]:

- The parameter value "UMTS800" 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 800 MHz band.

- The IE "Frequency band indicator" contained within the IEs "System Information Block type 5" and "System Information Block type 6". The UE shall use this IE 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.

NOTE: The UE shallmust 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".

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CHANGE REQUEST

⌘   **25.307** CR **12**   ⌘**rev**   ⌘   Current version: **4.2.0**   ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐   ME **X** Radio Access Network **X** Core Network ☐

Title: ⌘	Additional performance requirement for UMTS800	
Source: ⌘	RAN WG2	
Work item code:⌘	RinImp-UMTS800	***Date:*** ⌘ 1/13/04

Category: ⌘ **A**

Use <u>one</u> of the following categories:
F (correction)
A (corresponds to a correction in an earlier release)
B (addition of feature),
C (functional modification of feature)
D (editorial modification)
Detailed explanations of the above categories can be found in 3GPP <u>TR 21.900</u>.

Release: ⌘   Rel-4

Use <u>one</u> of the following releases:
2	(GSM Phase 2)
R96	(Release 1996)
R97	(Release 1997)
R98	(Release 1998)
R99	(Release 1999)
Rel-4	(Release 4)
Rel-5	(Release 5)
Rel-6	(Release 6)

Reason for change: ⌘	-	The performance requirement specific to UMTS800 is introduced into TS25.101 by R4-031131 agreed at RAN4#29 in San Diego. That should be an additional performance requirement for UEs that support UMTS800.
	-	In section 6.1 it states 'UEs that conform to Release '99 ' but it should state that 'UEs that conform to Release 4' in the Rel-4 specification.
	-	In section 6.1.2 the NOTE is no longer needed since the IE "Frequency band indicator" is introduced into the Rel-4 ASN.1 according to the result of the discussion of R2-040065 at RAN2#40.
Summary of change:⌘	-	"Section 8: Performance requirement" in TS25.101 is added as one of the RF requirements for UEs that support UMTS800.
	-	In section 6.1 the discription 'UEs that conform to Release '99 ' is corrected to 'UEs that conform to Release 4.'
	-	In section 6.1.2 the NOTE is completely removed.
Consequences if not approved: ⌘	-	The requirements for UMTS800 are insufficient.
	-	The discription for Rel-4 UEs is inappropriate.
	-	The specification contains the NOTE which describes the unnecessary UE requirement.
Clauses affected: ⌘		Section 6.1, 6.1.1, 6.1.2

	Y	N		
Other specs affected:	⌘	X	Other core specifications	⌘
		X	Test specifications	
		X	O&M Specifications	
Other comments:	⌘			

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3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

6　UMTS 800 Independent of Release

UMTS 800 is specified in Release 6 but is defined as a release-independent frequency band. This approach aligns the UMTS 800 band with other frequency bands when considering features that have to be supported in different releases.

6.1　UMTS 800 UE

UEs that conform to Release '994 and support the 800 MHz frequency band shall support the following requirements in Release 6:

6.1.1　RF Requirements

The UE shall comply with the RF requirements for the 800 MHz band specified in [9]. These requirements are:

　　Section 5: Frequency bands and channel arrangement;

　　Section 6: Transmitter characteristics;

　　Section 7: Receiver characteristics;

　　Section 8: Performance requirement.

Other requirements for radio reception and transmission requirements are defined in [5].

The UE shall comply with the Radio Resource Management requirements for the 800 MHz band specified in [10]. These requirements are:

　　Section 9.1:　Measurement Performances for UE.

Other requirements for radio resource management are defined in [6].

6.1.2　Signalling Requirements

The UE shall support the following RRC extensions specified in [8]:

- The parameter value "UMTS800" 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 800 MHz band.

- The IE "Frequency band indicator" contained within the IEs "System Information Block type 5" and "System Information Block type 6". The UE shall use this IE 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.

　　NOTE:　The UE 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".

CR-Form-v7

CHANGE REQUEST

⌘ **25.307** CR **13** ⌘**rev** ⌘ Current version: **5.1.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME **X** Radio Access Network **X** Core Network ☐

Title: ⌘	Additional performance requirement for UMTS800	
Source: ⌘	RAN WG2	
Work item code: ⌘	RinImp-UMTS800	***Date:*** ⌘ 1/13/04
Category: ⌘ **A**		***Release:*** ⌘ Rel-5

Use one of the following categories:
F (correction)
A (corresponds to a correction in an earlier release)
B (addition of feature),
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D (editorial modification)
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R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)

Reason for change: ⌘	-	The performance requirement specific to UMTS800 is introduced into TS25.101 by R4-031131 agreed at RAN4#29 in San Diego. That should be an additional performance requirement for UEs that support UMTS800.
	-	In section 6.1 it states 'UEs that conform to Release '99 ' but it should state that 'UEs that conform to Release 5' in the Rel-5 specification.
	-	In section 6.1.2 the NOTE is no longer needed since the IE "Frequency band indicator" is introduced into the Rel-5 ASN.1 according to the result of the discussion of R2-040065 at RAN2#40.
Summary of change: ⌘	-	"Section 8: Performance requirement" in TS25.101 is added as one of the RF requirements for UEs that support UMTS800.
	-	In section 6.1 the discription 'UEs that conform to Release '99 ' is corrected to 'UEs that conform to Release 5.'
	-	In section 6.1.2 the NOTE is completely removed.
Consequences if not approved: ⌘	-	The requirements for UMTS800 are insufficient.
	-	The discription for Rel-5 UEs is inappropriate.
	-	The specification contains the NOTE which describes the unnecessary UE requirement.
Clauses affected: ⌘		Section 6.1, 6.1.1, 6.1.2

		Y	N		
Other specs affected:	⌘		X	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘				

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UMTS 800 is specified in Release 6 but is defined as a release-independent frequency band. This approach aligns the UMTS 800 band with other frequency bands when considering features that have to be supported in different releases.

6.1 UMTS 800 UE

UEs that conform to Release 5'99 and support the 800 MHz frequency band shall support the following requirements in Release 6:

6.1.1 RF Requirements

The UE shall comply with the RF requirements for the 800 MHz band specified in [9]. These requirements are:

Section 5: Frequency bands and channel arrangement;

Section 6: Transmitter characteristics;

Section 7: Receiver characteristics;

Section 8: Performance requirement.

Other requirements for radio reception and transmission requirements are defined in [2].

The UE shall comply with the Radio Resource Management requirements for the 800 MHz band specified in [10]. These requirements are:

Section 9.1: Measurement Performances for UE.

Other requirements for radio resource management are defined in [7].

6.1.2 Signalling Requirements

The UE shall support the following RRC extensions specified in [8]:

- The parameter value "UMTS800" 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 800 MHz band.

- The IE "Frequency band indicator" contained within the IEs "System Information Block type 5" and "System Information Block type 6". The UE shall use this IE 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.

NOTE: The UE must 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".