TSG RAN Meeting #28 **RP-050226**
Quebec, Canada, 01 - 03 June 2005
Title **CRs (Rel-7 cat.B) for the introduction of UMTS2600 in RAN3 specifications**

Source **TSG RAN WG3**
Agenda Item **8.1.2**

RAN3 Tdoc	Spec	CR	Rev	Cat	curr. Vers.	new Vers.	Rel	Work item	Title
R3-050415	25.463	34		B	6.2.0	7.0.0	Rel-7	RInImp-UMTS2600	Introduction of UMTS 2.6 GHz frequency band definition
R3-050808	25.461	19		B	6.2.0	7.0.0	Rel-7	RInImp-UMTS2600	Introduction of UMTS2600 requirements

3GPP TSG-RAN Working Group 3#47
Athens, Greece, 9th – 13th May 2005

Tdoc ⌘R3-050808

CR-Form-v7

CHANGE REQUEST

⌘ **25.461** **CR** **019** ⌘ **rev** **-** ⌘ Current version: **6.2.0** ⌘

*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 ☐ Radio Access Network ☒ Core Network ☐

Title:	⌘	Introduction of UMTS2600 requirements
Source:	⌘	RAN3
Work item code:	⌘	RInImp-UMTS2600
Date:	⌘	13/05/2005
Category:	⌘	**B**
Release:	⌘	Rel-7

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:	⌘	Introduction of new UMTS2600 frequency band VII
Summary of change:	⌘	UMTS 2600 frequency band VII is added to the list of operating bands.
Consequences if not approved:	⌘	Requirements for UMTS2600 frequency band VII will be missing.

Clauses affected:	⌘				
Other specs affected:	⌘	**Y**	**N**		
		X		Other core specifications	⌘ 25.463 CR034
			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.

4.3.7 Operating bands

A UTRA/FDD BS or RET modem is designed to operate in one or several of the following paired frequency bands:

Table 4.3.7.1: Frequency bands

Operating Band	UL Frequencies UE transmit, Node B receive	DL frequencies UE receive, Node B transmit
I	1920 – 1980 MHz	2110 – 2170 MHz
II	1850 –1910 MHz	1930 – 1990 MHz
III	1710 – 1785 MHz	1805 – 1880 MHz
IV	1710 – 1755 MHz	2110 – 2155 MHz
V	824 – 849 MHz	869 – 894 MHz
VI	830 – 840 MHz	875 – 885 MHz
VII	2500 – 2570 MHz	2620 – 2690 MHz

The operating bands of the BS or RET modem shall be declared by the manufacturer.

4.3.8 Time delay and accuracy

3GPP TSG-RAN3 Meeting #47
Athens, Greece, 9th-13th May 2005

Tdoc ⌘ R3-050415

CR-Form-v7.1

CHANGE REQUEST

⌘ **25.463** **CR** **034** ⌘ **rev** **-** ⌘ Current version: **6.2.0** ⌘

*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 ☐ Radio Access Network ☒ Core Network ☐

Title:	⌘	Introduction of UMTS 2.6 GHz frequency band definition
Source:	⌘	RAN3
Work item code:	⌘	RInImp-UMTS2600
Date:	⌘	26/04/2005
Category:	⌘	**B**
Release:	⌘	Rel-7

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:

Ph2	*(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)*
Rel-7	*(Release 7)*

Reason for change:	⌘	The work item “UMTS 2.6 GHz” is to be finished in June 2005. This frequency band should be introduced for the coding for antenna frequency bands.
Summary of change:	⌘	Frequency Band VII is introduced in Table B.2: Coding for antenna frequency bands in field 0x03
Consequences if not approved:	⌘	

Clauses affected:	⌘	Annex B

	Y	N			
Other specs affected:	X		Other core specifications	⌘	25.461 CR19
		X	Test specifications		
		X	O&M Specifications		

Other comments:	⌘	This CR34 is based on CR37

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.

Annex B (normative):
Assigned fields for additional data

The following standard fields have no operational impact and are used by the procedures SetDeviceData, GetDeviceData, AntennaSetDeviceData and AntennaGetDeviceData. Little endian order is used for storage of multiple-octet numbers. Where ASCII variables are shorter than the assigned field lengths the characters are right aligned and leading blanks are filled with null characters (0x00).

Table B.1: Assigned fields for additional data

Field No.	Length (octets)	Format	Description
0x01	15	ASCII	Antenna model number
0x02	17	ASCII	Antenna serial number
0x03	2	16-bit unsigned	Antenna operating band(s): see below
0x04	8	4 x 16-bit unsigned	Beamwidth for each operating band in band order (deg) (example width for band I, width for band III)
0x05	4	4 x 8-bit unsigned	Gain for each operating band in band order (dBi * 10) (example gain for band I, gain for band III)
0x06	2	16-bit signed	Maximum supported tilt (degrees * 10), format as in subclause 3.1
0x07	2	16-bit signed	Minimum supported tilt (degrees * 10), format as in subclause 3.1
0x21	6	ASCII	Installation date
0x22	5	ASCII	Installer's ID
0x23	32	ASCII	Base station ID
0x24	32	ASCII	Sector ID
0x25	2	16-bit unsigned	Antenna bearing
0x26	2	16-bit signed	Installed mechanical tilt (degrees * 10), format as in subclause 3.1

Table B.2: Coding for operating bands in field 0x03

Bit no	15…76	6	5	4	3	2	1	0
Operating band	Spare	VII	I	II	III	IV	V	VI

The operating bands are defined in subclause 4.3.7 in [4].

Bits are numbered from 0 to 15, bit no 0 set=1 represents the value 0x0001.

Bit set=1 represents operating band is supported.

Bit set=0 represents operating band is not supported.

Spare bits shall be set=0.

Unused Beamwidth and Gain octets shall be set to 0x0000.

Examples of operating bands: 0000 0000 0001 0000 = Operating band II

0000 0000 0011 1000 = Operating band, I, II and III