

Work Item Description

Title: UMTS in 700 MHz bands (FDD)

Is this Work Item a "Study Item"? (Yes / No): No

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

None.

3 Justification

This work item is intended to update the UMTS specifications to include support for the 700 MHz bands in the US (ITU Region 2).

4 Objective

4.1 The purpose of this work item is to generate necessary information and CR's concerning the Upper and Lower 700 MHz bands (FDD) for potential deployment in ITU Region 2 as detailed below.

The Upper 700 MHz band includes the following spectrum blocks:

C Block: 747 MHz – 752 MHz: Down-link (Node B transmit, UE receive)
(FDD) 777 MHz - 782 MHz: Up-link (UE transmit, Node B receive)

D Block: 752 MHz – 762 MHz: Down-link (Node B transmit, UE receive)
(FDD) 782 MHz – 792 MHz: Up-link (UE transmit, Node B receive)

The Lower 700 MHz band includes the following spectrum blocks:

A Block: 698 MHz – 704 MHz: Down-link (Node B transmit, UE receive)
728 MHz - 734 MHz: Up-link (UE transmit, Node B receive)

B Block: 704 MHz – 710 MHz: Down-link (Node B transmit, UE receive)
734 MHz – 740 MHz: Up-link (UE transmit, Node B receive)

C Block: 710 MHz – 716 MHz: Down-link (Node B transmit, UE receive)
740 MHz – 746 MHz: Up-link (UE transmit, Node B receive)

- 4.2 Generate CR's to update the appropriate documents.
- 4.3 TSG RAN WG2 - study any issues related to UMTS as described in 4.1 above.
- 4.4 TSG RAN WG3 - study any possible interface impacts to UMTS networks.
- 4.5 Also see 3GPP Spec 45.005.
- 4.6 Any additional related issues.

5 Service Aspects

None/Text

6 MMI-Aspects

None/Text

7 Charging Aspects

None/Text

8 Security Aspects

None/Text

9 Impacts

Affects :	UICC apps	ME	AN	CN	Others
Yes		X	X		
No	X			X	X
Don't know					

10 Expected Output and Time scale (to be updated at each plenary)

New specifications [If Study Item, one TR is anticipated]						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
		RAN4		37 Sept. 07	38 Dec. 07	
Affected existing specifications [None in the case of Study Items]						
Spec No.	CR	Subject		Approved at plenary#		Comments
25.101		UE Radio transmission and reception (FDD)		RAN#38 (December 2007)		
25.104		UTRA (BS) FDD; Radio transmission and reception		RAN#38 (December 2007)		
25.113		Base Station Electromagnetic compatibility		RAN#38 (December 2007)		
25.133		Requirements for Support of Radio Resource Management (FDD)		RAN#38 (December 2007)		
25.141		Base station conformance testing (FDD)		RAN#38 (December 2007)		
25.331		RRC Protocol		RAN#38 (December 2007)		
25.942		RF System Scenarios		RAN#38 (December 2007)		
25.306		Radio UE capability		RAN#38 (December 2007)		
25.307		Requirements on UEs supporting a Release Independent Frequency Band		RAN#38 (December 2007)		
34.121		Terminal Conformance Specification, Radio Transmission and Reception		RAN#38 (December 2007)		

11 Work item rapporteur(s)

Marc Grant, Cingular Wireless / AT&T

12 Work item leadership

RAN4

13 Supporting Companies

Cingular Wireless (AT&T), Ericsson, Nokia, Alcatel-Lucent

14 Classification of the WI (if known)

	Study Item (no further information required)
	Feature (go to 14a)
X	Building Block (go to 14b)
	Work Task (go to 14c)

14a The WI is a Feature: List of building blocks under this feature

(list of Work Items identified as building blocks)

14b The WI is a Building Block: parent Feature

(one Work Item identified as a feature)

14c The WI is a Work Task: parent Building Block

(one Work Item identified as a building block)

form change history:

v1.12.1: removes revision marks following approval at SP-29

v1.12.0: includes provision for Study Items (SP-29)

v1.11.0: includes those changes from v1.8.0 agreed at SP-25.

v1.10.0: full circle

v1.9.0: a clean sheet

v1.8.0: includes comments from SA#24

v1.7.0: includes comments from RAN, CN and T #24; also includes "early implementation" data

v1.6.0: includes comments made during review period prior to TSGs#24

v1.5.0: includes comments made at TSGs#23 (Phoenix)

v1.4.0: offered to SA#23 for approval

v1.3.0: offered to CN#23, RAN#23 and T#23 for comments

DRAFT4 v1.3.0: 2004-03-09: Incorporation of comments from Leaders list

DRAFT3 v1.3.0: 2004-02-19: Incorporation of comments from MCC members

DRAFT2 v1.3.0: 2004-01-29: Complete redraft:

v1.2.0: 2002-07-04: "USIM" box changed to "UICC apps"

2003-05-28: spelling of "rapporteur" corrected

2002-07-04: "USIM" box changed to "UICC apps"