

Palm Springs, USA, 7th-9th of September 2004

Agenda Item: 8.11
Source: Nokia
Title: WI proposal for UMTS 2600 MHz
Document for: Approval

Work Item Description

Title: **UMTS 2.6 GHz**

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

None

3 Justification

Work within CEPT/PT1 regarding the ECC Decision on harmonised utilisation of spectrum for IMT-2000/UMTS systems operating within the band 2500 - 2690 MHz [Ref: 15th ECC PT1 MEETING, Draft ECC Decision on the harmonised utilisation of the band 2500 - 2690 MHz for IM T-2000/UMTS] has progressed to the extent that TSG RAN has sufficient information to commence work on specification for UMTS operating within the band 2500 - 2690 MHz.

The harmonised spectrum scheme for IMT-2000/UMTS in the band 2500 - 2690 MHz as considered by CEPT/PT1 in its current draft decision from the September PT1 meeting is as follows:

1. The frequency band 2500 – 2570 MHz is paired with 2620 – 2690 MHz for FDD operation with the mobile transmit within the lower band and base transmit within the upper band.
1. Administrations may assign the frequency band 2570 – 2620 MHz either for TDD or for FDD downlink (external). Any guard bands required to ensure adjacent band compatibility at 2570 MHz and 2620 MHz boundaries will be decided on a national basis and taken within the band 2570 – 2620 MHz.
2. Assigned blocks shall be in multiple of 5.0 MHz.

As all the necessary information related to the paired FDD operation in 2500 – 2570 MHz with 2620 – 2690 MHz is available, TSG RAN should be able to start work on the FDD specifications operating in this part of the 2.6 GHz band.

It is expected that additional work and updates to the specifications need to be carried out at a later stage in order to support FDD DL operation in 2570 – 2620 MHz.

4 Objective

The purpose of this work item is to generate necessary information of 2.6 GHz FDD system detailed below:

- Generate a report summarizing a study of radio requirements UTRA FDD in the 2.6 GHz Band
 - 2500 – 2570 MHz: Up-link (UE transmit, Node B receive)
 - 2620 – 2690 MHz: Down-link (Node B transmit, UE receive)
- Generate CR's to update the appropriate documents.
- TSG RAN WG2 - study any issues related to UMTS at 2.6 GHz FDD band-signalling aspects.
- TSG RAN WG3 - study any possible interface impacts to UMTS networks.
- Any additional related issues.

5 Service Aspects

None

6 MMI-Aspects

None

7 Charging Aspects

None

8 Security Aspects

None

9 Impacts

Affects :	USI M	ME	AN	CN	Others
Yes		X	X		
No	X			X	X
Don't know					

New specifications						
Spec No.	Title	Prime resp. WG	2ndary resp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#		Comments
25.101		UE Radio transmission and reception (FDD)		RAN#28 (June 2005)		
25.104		UTRA (BS) FDD; Radio transmission and reception		RAN#28 (June 2005)		
25.113		Base Station Electromagnetic compatibility		RAN#28 (June 2005)		
25.133		Requirements for Support of Radio Resource Management (FDD)		RAN#28 (June 2005)		
25.141		Base station conformance testing (FDD)		RAN#28 (June 2005)		
25.331		RRC Protocol		RAN#28 (June 2005)		
25.942		RF System Scenarios		RAN#28 (June 2005)		
25.306		Radio UE capability		RAN#28 (June 2005)		
25.307		Requirements on UEs supporting a Release Independent Frequency Band		RAN#28 (June 2005)		
34.121		Terminal Conformance Specification, Radio Transmission and Reception		T# 28 (June 2005)		

11 Work item raporteurs

Jussi Numminen (Nokia)

12 Work item leadership

RAN WG 4

13 Supporting Companies

Nokia, Motorola, Siemens, Ericsson, Nortel Networks, Lucent

14 Classification of the WI (if known)

	Feature (go to 14a)
X	Building Block (go to 14b)
	Work Task (go to 14c)

14b The WI is a Building Block:

This WI is a building block part of the radio interface improvement feature.