TSG RAN meeting# 26 **RP-040553**

Athens, Greece, 8th-10th of December 2004

Agenda Item: 8.12

Source: IPWireless

Title: WI proposal for UMTS 2600 MHz TDD Option

Document for: Approval

Work Item Description

Title: **UMTS 2.6 GHz, TDD**

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

UMTS 2.6GHz, FDD

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 unpaired TDD operation in 2570 – 2620 MHz is available, TSG RAN should be able to start work on the relevant TDD specifications operating in this part of the 2.6 GHz band.

4 Objective

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

- Generate a report summarizing a study of radio requirements for UTRA TDD in the 2.6 GHz Band

- 2570 - 2620 MHz TDD

- The co-existence with IMT2000 technology within 2500 – 2690 MHz shall be considered.
- Generate CR's to update the appropriate documents.
- TSG RAN WG2 - study any issues related to UMTS at 2.6 GHz TDD 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:	USIM	ME	AN	CN	Others
Yes		X	X		
No	X			X	X
Don't know					

10 Expected Output and Time scale

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments
25.102		UE Radio transmission and reception (TDD)	RAN#30 (Dec 2005)	
25.105		UTRA (BS) TDD; Radio transmission and reception	RAN#30 (Dec 2005)	
25.113		Base Station Electromagnetic compatibility	RAN#30 (Dec 2005)	
25.123		Requirements for Support of Radio Resource Management (TDD)	RAN#30 (Dec 2005)	
25.142		Base station conformance testing (TDD)	RAN#30 (Dec 2005)	
25.331		RRC Protocol	RAN#30 (Dec 2005)	
25.942		RF System Scenarios	RAN#30 (Dec 2005)	
25.306		Radio UE capability	RAN#30 (Dec 2005)	
25.307		Requirements on UEs supporting a Release Independent Frequency Band	RAN#30 (Dec 2005)	
34.122		Terminal Conformance Specification, Radio Transmission and Reception (TDD)	T# 30 (Dec 2005)	
34.124		ElectroMagnetic Compatibility (EMC) requirements for mobile terminals and ancilliary wquipment	T#30 (Dec 2005)	

11 Work item raporteurs

Shin Horng Wong (IPWireless)

12 Work item leadership

RAN WG 4

13 Supporting Companies

IPWireless, Siemens AG, CATT, Huawei, UTStarcom

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.