

Agenda Item: 8.12
Source: Orange
Title: WI proposal for UMTS 900 MHz
Document for: Approval

Work Item Description

Title

UMTS 900 MHz

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

None.

3 Justification

UMTS900 technical specifications for the 900 MHz band are not yet available. ECC/PT1 will start soon the UMTS900 channel arrangement work, ECC/PT1 kindly requested 3GPP to develop UMTS900 Technical Specifications in the 900 MHz band as soon as possible. Furthermore, ECC/PT1 offered close cooperation with 3GPP during this development.

3GPP TSG RAN acknowledged this request in RP-040393, and informed ECC/PT1 that a WI will be opened on the subject during TSG RAN #26.

4 Objective

The purpose of this work item is to perform the necessary work to allow the introduction of UMTS in the 900 MHz, produce the necessary UMTS900 Technical Specifications and check the current RF Scenarios against the requirements in this band. The band to be considered is as follows:

- 880 – 915 MHz: Up-link (UE transmit, Node B receive)
- 925 – 960 MHz: Down-link (Node B transmit, UE receive)

~~○ Update the appropriate documents~~

The following work is required in the RAN WG's to support the introduction of UMTS 900:

- TSG RAN WG2 - study any issues related to UMTS at 900 MHz FDD band-signalling aspects.
 - TSG RAN WG3 - study any possible interface impacts to UMTS networks.
 - TSG RAN WG4 -study the BS and UE minimum RF performance requirements necessary to ensure the good co-existence of GSM and UMTS in the 900 MHz band in practical deployment scenarios.
- Update the appropriate documents
- Any additional related issues.

5 Service Aspects

None.

6 MMI-Aspects

None.

7 Charging Aspects

None.

8 Security Aspects

None.

9 Impacts

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

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	
25.101		UE Radio transmission and reception (FDD)		RAN#29 (September 2005)		
25.104		UTRA (BS) FDD; Radio transmission and reception		RAN#29 (September 2005)		
25.113		Base Station Electromagnetic compatibility		RAN#29 (September 2005)		
25.133		Requirements for Support of Radio Resource Management (FDD)		RAN#29 (September 2005)		
25.141		Base station conformance testing (FDD)		RAN#29 (September 2005)		
25.331		RRC Protocol		RAN#29 (September 2005)		
25.942		RF System Scenarios		RAN#29 (September 2005)		
25.306		Radio UE capability		RAN#29 (September 2005)		
25.307		Requirements on UEs supporting a Release Independent Frequency Band		RAN#29 (September 2005)		
34.121		Terminal Conformance Specification, Radio Transmission and Reception		T# 29 (September 2005)		

11 Work item rapporteur(s)

Yannick Li (Nortel)

12 Work item leadership

RAN WG4

13 Supporting Companies

Orange, Nortel, Alcatel, SFR, Lucent, Telefonica ~~Moviles~~, BouyguesTelecom, O2, Qualcomm ~~Europe~~, Nokia, Sagem

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: parent Feature

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

