Work Item Description

Title: UMTS 850

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

None

3 Justification

WRC 2000 extended the current IMT 2000 frequency allocation to include bands currently occupied with-in the 850 MHz. band. In particular, ITU-R Working Party 8F has recently forwarded into the ITU approval process a revision to ITU-R Recommendation M.[1036-1]. This revision includes recognition of the WRC 2000 bands identified for IMT-2000, in particular the band range 806-960 MHz.

The supporters of this WI proposal believe that GPRS/EDGE at 850 will eventually begin evolving into UMTS at 850 in the 2007 – 2008 time frame with-in ITU Region 2. This band is currently occupied by a variety of technologies so studies of migration paths of the likely combinations of technologies should be considered (both internal and external to 3GPP). While progressing the specification work for UMTS 850 3GPP TSG RAN WG4 should consider studies performed by and recommendations given by Committee T1 (T1P1) concerning band plans, interference, and ITU Region 2 implementation issues.

It is suggested that the changes to incorporate UMTS in the 1900 MHz band could be used as the basis for this work which would reduce the effort required within 3GPP.

4 Objective

The purpose of this work item is to:

4.1 Generate a report summarizing a study of UTRA FDD in the 850 band (as described below) which includes, or will include the migration (including co-existing studies) of the following technologies: GPRS/EDGE, TIA/EIA-136, TIA/EIA/IS-95, and Analog AMPS into UMTS 850.

The specific bands to be studied are 1:

824 – 849 MHz: Up-link (UE transmit, Node B receive) 869 – 894 MHz: Down-link (Node B transmit, UE receive)

- 4.2 Generate CR's to update the appropriate documents
- 4.3 TSG RAN WG2 study any issues related to UMTS at 850 MHz.
- 4.4 TSG RAN WG3 study any possible interface impacts to UMTS networks.
- 4.5 Any additional related issues.

5 Service Aspects

¹ These uplink/downlink parings are consistent with the revision of ITU-R M.[1036-1].

None

6 MMI-Aspects

None

7 Charging Aspects

None

8 Security Aspects

None

9 Impacts

Affects	USI	ME	AN	CN	Others
:	\mathbf{M}				
Yes		X	X		
No	X			X	X
Don't					
know					

Expected Output and Time scale

10

				New spe	e <mark>cifi</mark>	cations			
Spec No.	Title	1	Prime rsp. WG	ne 2ndary Pr rsp. fo WG(s) in		sented ormation olenary#	Approve d at plenary#	Comments	
			Affect	ted exist	ing s	specificat	ions	1	
Spec No.	CR	Subject			1	Approved plenary#		Comments	
25.101		UE Radio transmission and reception (FDD)				RAN#23 2004)	(March		
25.104		UTRA (BS) FDD; Radio transmission and reception				RAN#23 2004)	(March		
25.113		Base Station Electromagnetic compatibility				RAN#23 2004)	(March		
25.133		Requirements for Support of Radio Resource Management (FDD)				RAN#23 2004)	(March		
25.141		Base station conformance testing (FDD)				RAN#23 (March 2004)			
25.331						RAN#23 2004)	(March		
25.942		RF System Scenarios				RAN#23 (March 2004)			
25.306		Radio UE capability				RAN#23 2004)	(March		
25.307		Requirements supporting a F Independent F	Release	2]	RAN#23 2004)	(March		
34.121					4	Т#23 (Ма 2004)	ırch		

Work item raporteurs

Either an Operator or Vendor from ITU Region 2

Work item leadership

RAN WG 4

13 Supporting Companies

Cingular Wireless LLC, AT&T Wireless Services, Rogers Wireless, Nortel Networks, Motorola, Siemens, Nokia, Ericsson

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.