TSG-RAN Meeting #13 Beijing, China, 18 - 21 September 2001

Study Item Description

Title

Feasibility Study considering the viable deployment of UTRA in additional and diverse spectrum arrangements

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

None

3 Justification

The present 3GPP specifications cover the IMT-2000 2 GHz band (Band I and II), in accordance with ITU-R Radio Regulations Article S5 Footnote S5.388, in R99 and Rel4 and the work is continuing with the UMTS1900 Band II improvements and UMTS 1800 Band III.

ITU-R WRC-2000 identified additional extension bands for IMT-2000 that requires further studies for the subsequent future deployment of UTRA in the whole or parts of the bands as indicated below:

- 806 960 MHz (The whole band 806 960 MHz is not identified on a global basis for IMT-2000 due to variation in the primary Mobile Service allocation across the three ITU Regions)
- 1710 1885 MHz, where the work is progressing under UMTS1800 WI.
- 2500 2690 MHz (In ITU Region 1 the bands 2500 2520 MHz and 2670 2690 MHz is also allocated on a co-primary basis to the Mobile Satellite Service subject to market demand)

4 Objective

The viable deployment of UTRA in additional and diverse spectrum arrangements should be assessed, including

- Duplex spacing arrangements other than for Bands I, II and III.
- Arbitrary selectable or variable duplex spacing methods
- Use of asymmetric spectrum arrangements considering the need for additional downlink traffic capacity
- Terminal capabilities and signalling
- Possible interface impacts

The work will result in a technical report.

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 (to be updated at each plenary)

	New specifications						
Spec No.	Title		Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
TBD	TBD Feasability study: UTRA operating in new frequency bands		RAN4	RAN2 RAN3	RAN #16	RAN #17	
			Affe	cted existi	ng specification	ons	
Spec No. CR Subject Approved at plenary# Comments						Comments	

11	Work item raporteurs
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Peter Ståhlfjäll, Ericsson

Work item leadership

TSG-RAN WG4

13 Supporting Companies

Ericsson, Nokia, Telia, Sonera

14 Classification of the WI (if known)

		Feature (go to 14a)
X	ζ	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

Radio Interface Improvement Feature

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

(one Work Item identified as a building block)