3GPP TSG-RAN Working Group 1, Meeting #11 TDoc TSG RAN WG1 (00)0230 **San Diego, USA, February 29 – March 3, 2000**

Source:	Siemens AG
Title:	Proposal for Work Item Description 'NodeB Synchronisation via
	Air for TDD'
Agenda Item:	AdHoc 1

Work Item Description

Title

NodeB Synchronisation via Air for UTRA TDD mode

1 3GPP Work Area

Х	Radio Access
	Core Network
	Services

2 Linked work items

none

3 Justification

The following benefits of the introduction of NodeB synchronistion via air are seen for the UTRAN:

- A substantial reduction of the cost of the transmission network.
- An autonomous synchronisation procedure without the need of external references.
- An easily extendable method for the purpose of inter-system NodeB synchronisation.

4 Objective

The purpose of this new work item is to enable the synchronisation of NodeBs in UTRA TDD by NodeB cross measurements on the air interface. NodeB synchronisation via the air interface involves

- radio frame und multi frame synchronisation and
- intra-system and inter-system synchronisation.

5	Service Aspects
	None
6	MMI-Aspects
	None
7	Charging Aspects
	None
8	Security Aspects
	None

Impacts

Affects:	USIM	ME	AN	CN	Others
Yes		Х	Х		
No	Х			Х	
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
			Δffe	cted existi	ina	specificatio	ns	
Spec No.	CR	Subject	7410		ing	Approved at p		Comments
25.123		Requirements Radio Resour (TDD)					N #9	
25.221		Physical channels and mapping of transport channels onto physical channels (TDD)				RAN	N #9	
25.224		Physical Layer Procedures (TDD)			D)	RAN	N #9	
25.225		Physical layer (TDD)	– Meas	surements		RAN	N #9	
25.301		Radio Interfac Architecture	e Proto	col		RAN	N #9	
25.302		Services prov layer	ided by	the physic	cal	RAN	N #9	
25.303		Interlayer proc		in		RAN	N #9	
25.321		MAC Protocol Specification				RAN	N #9	
25.331		RRC Protocol Specification				RAN	\ #9	
25.402		Synchronisation2	on in UT	RAN Sta	ge	RAN	N #9	
25.433		UTRAN lub In Signalling	terface	NBAP		RAN	N #9	
25.423		UTRAN lur Int Signalling	terface I	RNSAP		RAN	N #9	

11 Work item raporteurs

(name of physical person)

12 Work item leadership

(one WG)

13 Supporting Companies

Ericsson, Interdigital Communication, Nokia, NTT DoCoMo, Siemens, Vodafone

14 Classification of the WI (if known)

9

Feature (go to 14a)
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

(one Work Item identified as a feature)

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

(one Work Item identified as a building block)