

3GPP TSG RAN#7
Madrid, Spain, 13 -15 March, 2000

RP#7 (00)0057

Agenda Item: 8
Source: CWTS
To: RAN#7
Title: Work Item Description " Low Chip Rate TDD Option"
Document for: Approval

Work Item Description

Title

Low chip rate TDD option

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

none

3 Justification

The integration of TDD low chip rate option in Release 2000 is discussed and approved in RAN#6. This paper is to describe the work plan of the integration for low chip rate TDD in R00.

4 Objective

The integration work will enable the low chip rate TDD mode with it's specific properties. And this work will affect the specifications for each working group on physical layer, higher layers, Iur interface and also the RF specifications as well.

- For physical layer, the features include:
 - The frame structure and the burst structure
 - Channel description and mapping
 - Modulation and spreading
 - Channel coding and multiplexing
 - Physical layer procedures
 - Measurements by physical layer

- For higher layers:

The work will focus on adding extensions and Add-Ons for low chip rate features. In addition, two documents concerning the Location and packet data services are also introduced for further study.

- For Iur/Iub interface:

For the adoption of some new features, e.g. the smart antenna, baton hand-over, some additional messages in Iur and Iub interface signalling for low chip rate TDD option should be taken into consideration.

- For radio transmission and reception:
 - The system performance requirements supporting low chip rate services
 - The Rx characteristics requirement
 - The Transmitter characteristics requirement
 - The frequency bands and channel arrangements

Task	Planned Start	Planned Finish
Create new TR on low chip rate TDD	01/2000	05/2000

RAN#8 decide whether new specification required	06/2000	06/2000
Drafting new specifications and CRs	06/2000	09/2000
Possible remaining corrections and clarifications	09/2000	12/2000

5 Service Aspects

To be discussed in RAN

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	
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
Affected existing specifications						
Spec No.	CR	Subject			Approved at plenary#	Comments
25.201		Physical layer – General description			RAN#9	
25.221		Physical channels and mapping of transport channels onto physical channels (TDD)			RAN#9	
25.222		Multiplexing and channel coding (TDD)			RAN#9	
25.223		Spreading and modulation (TDD)			RAN#9	
25.224		TDD; physical layer procedures			RAN#9	
25.225		Physical layer; measurements			RAN#9	
25.301		Radio Interface Protocol Architecture			RAN#9	
25.302		Services Provided by the physical layer			RAN#9	
25.303		UE functions and inter-layer procedures in connected mode			RAN#9	
25.304		UE procedure in idle mode			RAN#9	
25.305		Stage 2 Functional Specification of Location Services in UTRAN			RAN#9	
25.321		MAC protocol specification			RAN#9	
25.322		RLC protocol specification			RAN#9	

25.323		PDCP Protocol specification	RAN#9	
25.324		Broadcast/Multicast Control BMC	RAN#9	
25.331		RRC protocol specification	RAN#9	
25.921		Guidelines and Principles for protocol description and error handling	RAN#9	
25.922		Radio Resource Management Strategies	RAN#9	
25.924		Opportunity Driven Multiple Access (ODMA)	RAN#9	
25.925		Radio Interface for Broadcast/Multicast Services	RAN#9	
25.402		Synchronisation in UTRAN Stage 2	RAN#9	
25.423		UTRAN Iur interface RNSAP signalling	RAN#9	
25.433		UTRAN Iub interface NBAP signalling	RAN#9	
25.102		UE Radio Transmossion and Reception	RAN#9	
25.105		BTS Radio Transmission and Reception	RAN#9	
25.123		RF parameters in support of RRM	RAN#9	
25.142		Base station conformance testing(TDD)	RAN#9	
25.942		RF system scenarios	RAN#9	
34.122		Terminal Conformance Specification, Radio Transmission and Reception	TSG-T	
34.123		Mobile Station (MS) Conformance test	TSG-T	

11 Work item raporteurs

To be decided by RAN

12 Work item leadership

To be discussed in RAN

13 Supporting Companies

Ericsson, Fujisu, IDC, LG, NTT DoCoMo, Panasonic, RFI, Samsong, Siemens

14 Classification of the WI (if known)

	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)