RAN Plenary Meeting #12Stockholm, Sweden, June 12th – 15th, 2001Agenda Item:9.10Source:NokiaTitle:Proposed WI, BeamformingDocument for:Decision

1 Introduction

Working groups RAN1, RAN2 and RAN4 have discussued based on the action points from TSG RAN#12 the use of beamforming, especially in the case with dedicated pilots. Also other issues, such as new UTRAN measurements have been proposed and are under consideration. This revised WI sheet covers all the activity expected to be done for the beamforming, including both UE and UTRAN side enhancements.

RP-010699010711

The attached WI is proposed to be approved.

2 Proposed WI, Beamforming

Work Item Description

Title

Beamforming

1 3GPP Work Area

Х	Radio Access
	Core Network
	Services

2 Linked work items

None

3 Justification

Beamforming with dedicated pilot symbols or with S-CPICH has potential to improve system capacity. Also UTRAN RRM could be improved by defining support for measurements that take into account the possible use of beamforming with S-CPICH or with dedicated pilots only.

4 Objective

This work item should define the Rel'5 performance requirements and potential new measurements for efficient support of beamforming in UTRAN. The work also covers necessary corrections for Rel'99/Rel'4 specifications for the physical layer procedures to enable support of the beamforming operation.

5 Service Aspects

None/Text

6 MMI-Aspects

None/Text

7 Charging Aspects

None/Text

8 Security Aspects

None/Text

9 Impacts

Affects:	USIM	ME	AN	CN	Others
Yes		Х	Х		
No	Х			Х	Х
Don't know					

10 Expected Output and Time scale (to be updated at each plenary)

				New spe	ecifications		
Spec No.	Title)	Prime rsp. WG		Presented for information at plenary#	Approved at plenary#	Comments
New TR	Beamforming Concept Clarification		TSG RAN WG1	TSG RAN WG4	TSG RAN#14	TSG RAN#15	
			Affe	cted existi	ing specification	ons	
Spec No.	CR	Subject			Approved at	plenary#	Comments
TS 25.214					TSG RAN#	16	
TS 25.133					TSG RAN#	16	
TS 25.101					TSG RAN#	16	
TS 25.433					TSG RAN#	16	
TS 34.121					TSG T#16		
TS 25.215			TSG RAN#16		16		

Note: CRs correcting Release'99 for 25.214 shall be provided for TSG RAN as soon as completed by TSG RAN WG1.

11 Work item raporteurs

Jussi Kähtävä, Nokia.

12 Work item leadership

TSG-RAN WG1

13 Supporting Companies

Nokia, Motorola, Panasonic, Qualcomm

14 Classification of the WI (if known)

	Feature (go to 14a)
	Building Block (go to 14b)
Х	Work Task (go to 14c)

- 14a The WI is a Feature: List of building blocks under this feature
- 14b The WI is a Building Block: parent Feature
- 14c The WI is a Work Task: parent Building Block

UTRAN Improvement Feature