Title: **Proposed Work Item description sheet on "Beamforming requirements for UE"**
Document for: **Approval**
Source: **Nokia**
Agenda Item **9.9**

Work Item Description

Title

Beamforming requirements for UE

1   3GPP Work Area

X	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 UE 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		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

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments
TS 25.133	240	Active set size limitation for dedicated pilot	TSG RAN#~~14~~16	
TS 25.101	142	Performance requirement for dedicated pilot	TSG RAN#~~14~~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)
X	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