

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 Rel5 UE performance requirements and potential new measurements for efficient support of beamforming in UTRAN. The work also covers necessary corrections for Rel99/Rel4 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 resp. WG	2ndary resp. 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#1416		
TS 25.101	142	Performance requirement for dedicated pilot		TSG RAN#1416		

Note: CRs correcting Release99 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