

Work Item Description: TDD Base Station Classification

1. Work Area

Radio Access

2. Linked work items:

FDD Base station classification, WI for R2000.

3. Justification

An important application for TDD is the deployment of pico and micro cells, using small low cost base stations. The operating parameters of pico and micro cells differ widely from those of macro cells e.g. in geometry, user density and traffic type. This fact ultimately causes differences in performance requirements and on acceptable limits on complexity.

This work item will separate the TDD specifications according to base station classes. The criteria for the classification, the affected specification items and their values are to be determined as a part of the work.

4. Service Aspects

Cell capacity and base station deployment may be affected

5. MMI-Aspects

None

6. Charging Aspects

None

7. Security Aspects

None

8. Impacts

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

9. Expected Output and Time scales (to be updated at each plenary)

Schedule

TSG RAN adoption of work item	RAN#7 -	March 2000
Definition of classification	RAN WG4#12 -	May 2000
Classification implemented in specifications	RAN WG4#14 -	November 2000
TSG RAN approval of specifications	RAN #10 -	December 2000

Specifications

Affected existing specifications				
Spec No.	CR	Subject	Approved at RAN#	Comments
25105		BS transmit receive characteristics (TDD)	10	
25123		RF parameters for RRM (TDD)	10	
25142		Base station conformance testing (TDD)	10	
25942		RF system scenarios	10	

10. Work item rapporteurs

To be determined

11. Work item leadership

To be decided by 3GPP TSG RAN

12. Supporting companies

Motorola, Nokia, Siemens, InterDigital.

13. Others

Addendum

Technical scope, including the field of application of the intended outp

- definition of base station classes according to deployment scenarios (e.g. macro, micro, pico)
- identification, review and possible update of radio parameters dependent on deployment scenarios
- identification, review and possible update of RRM measurements dependent on deployment scenarios
- review and possible update of conformance test specifications
- recording of related information into RF System Scenarios