

Source: Work Item Rapporteur

Title: Status report for Rel 4 work item FDD BS Classification

1 Introduction

Two classes of base stations have been identified, local area and wide area. The core requirements in Rel99 apply to the wide area BS. System scenarios, simulation assumptions and some preliminary requirements for the local area BS have been defined, and are shown in TR 25.951. Simulations and analysis need to be completed to be able to set final requirements and to finalise the work in WG4. The goal is to complete this work by the RAN #13 meeting.

2 Completed Work

3GPP RAN 4 has held 4 working group meetings since the work item was approved in June 2000. The following work has been completed:

- ✓ Agreed to classify base stations according to the minimum coupling loss between BS and UE.
- ✓ Defined two classes of base stations, wide area and local area.
- ✓ Defined path loss models for indoor and mixed indoor/outdoor environments.
- ✓ Defined minimum coupling loss values for local area base station.
- ✓ Agreed to propagation conditions for local area base station.
- ✓ Identified the requirements in core specifications in 25.104 that are effected by BS classification.
- ✓ Definition of new requirements for local area BS class started.

3 Work to be completed

- ✗ Determine selectivity, blocking and intermodulation requirements for local area BS receiver.
- ✗ Determine and verify ACLR requirements for local area BS transmitter.
- ✗ Review of 25.133 for possible changes due to classification.
- ✗ Update 25.141 conformance test specification.

4 Status of specifications

4.1 Parameters for classification in TS 25.104

Clause	Description	Status
4.2	Base station classes	Completed
6.3	Frequency error	Completed
6.6.2.1	Spectrum emission mask	Open

6.6.2.2	ACLR minimum requirement	Open
7.2	Reference Sensitivity Level	Open
7.4	ACS	Open
7.5	Blocking Characteristics	Open
7.6	Intermodulation Characteristics	Open
8.3	Performance requirement for multipath fading	Completed

5 Impacts on other RAN Working Groups

No impact identified.