

Status Report for WI to TSG

Work Item Name: FDD Base station classification

SOURCE: Rapporteur (Tuomo Säynäjäkangas, Nokia) **TSG:** RAN **WG:** 4

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Ref. to WI sheet: RAN_Work_Items.doc

Progress Report since the last TSG (for all involved WGs):

RAN WG 4 has held 1 meeting since the work item status was lastly presented to TSG RAN #14. At this meeting one contribution was provided for this WI. It was approved to have 3 Base station classes:

- FDD Wide Area BS class – Requirements are based on BS-UE MCL of 70dB (Macro cell application)
- FDD Medium Range BS class – Requirements are based on BS-UE MCL of 53dB (Micro cell application)
- FDD Local Area BS class – Requirements are based on BS-UE MCL of 45dB (Pico cell application)

The core requirements in Rel99, Rel4 and Rel5 apply to the Wide Area BS. System scenarios, simulation assumptions and some preliminary requirements for the Medium Range 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 for all classes and to finalise the work in WG4. It was felt by RAN WG4 that it is unlikely the WI can be finished for Rel5 and suggested to delay it to Rel6.

List of Completed elements (for complex work items) in TS 25.104:

| Clause | Description | Status |
|--------|----------------------|-----------|
| 4.2 | Base station classes | Completed |

List of open issues in TS25.104:

| Clause | Description | Status |
|---------|---------------------------------|-------------|
| 6.3 | Frequency error | Partly open |
| 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 | Performance requirements | Open |

Parameters for classifications in TS 25.133 are open.

Estimates of the level of completion (when possible):

15 %

WI completion date review resulting from the discussion at the working group:

TSG-RAN meeting #18 (December 2002)

References to WG's internal documentation and/or TRs:

TR 25.951 V1.1.0 (2001-07)