

ETSI STC SMG2
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Source: SMG2
To: RAN WG2
Copy: TSG RAN, RAN WG1, RAN WG3, RAN WG4.

Title: LS on measurement order parameters sent to the MS, for GSM to UMTS handovers.

SMG2 has considered the initial phase of a GSM to UMTS handover, described as follows:

The GSM network sends (GSM) messages to the dual mode GSM-UMTS mobile to indicate that this mobile shall look for UMTS cells and attempt to “synchronise” to them (in order to subsequently report measurement information).

SMG2 kindly ask RAN WG2 for some information on the nature of the measurements required in the above case.

In order to ease the work, a temporary proposal follows, making the distinction between FDD and TDD. A list of questions is also enclosed. The answers to these questions are needed by SMG2 in order to code the information on the air interface as efficiently as possible.

SMG2 thank RAN WG2 for their help in this matter.

1 – FDD Mode

The following information seems to be needed:

Downlink centre frequency (9 bits)
Downlink Bandwidth (3 bits)
Scrambling Code Pointers (9 bits)

- 1.1 Are any needed fields missing in this description ?
- 1.2 Are any fields present which are not needed ?
- 1.3 Are the fields *always* needed ?
- 1.4 How many centre frequencies are foreseen ?
- 1.5 How many SC Pointers are foreseen for each frequency ?
- 1.6 Does each centre frequency require a different Bandwidth ? (resp. set of SCs)
- 1.7 Is it possible to have a non-constant frequency distance between uplink and downlink (variable duplex) ? If yes, what is its possible range (and granularity?) Would it have any impact on the downlink information ?
- 1.8 In which 3GPP specification are these fields specified ?

2 – TDD Mode

The following information seems to be needed:

Downlink center frequency (9 bits)
Downlink Bandwidth (3 bits)
Sch Position (4 bits)
Sch Mode (2 bits)
Cell Parameter

- 2.1 Are any needed fields missing in this description ?
- 2.2 Are any fields present which are not needed ?
- 2.3 Are the fields *always* needed ?
- 2.4 How many centre frequencies are foreseen ?
- 2.5 Does each centre frequency require a different Bandwidth ? (resp. Cell Parameter, Sch Position, Sch mode) ?

- 2.6 Is further information needed to indicate to the MS when the BTS is transmitting (timing for power measurement) ? If yes, how many bits would code it ?
- 2.7 In which 3GPP specification are all these fields specified ?