

Agenda Item : 11
Source : RAN WG1
Title : liaison statement on support of compressed mode by the UE
To : RAN WG4
Cc : RAN WG2
Document for : Approval

Interfrequency handovers from UTRAN have been dealt in RAN WG1. As a result one tool called “compressed mode” has been standardized and can be used for such a purpose in FDD mode. From the RAN WG1 perspective, several compressed mode combinations are possible for a UE such as (non exhaustive) :

- Downlink compressed mode only
- Uplink and downlink compressed mode
- Uplink compressed mode only
- No compressed mode (e.g. dual receiver UE)

The use and support of this compressed mode by UE needs to be better understood. During discussions in this issue in RAN WG1 the use and support of some compressed mode combinations appeared to be related to UE implementation (e.g. fixed duplex distance, variable duplex distance UE) and frequency bands supported (GSM900,GSM1800, FDD, TDD, etc. bands). For example, there were discussions that a UE performing some measurements in GSM1800 band would need uplink compressed mode to alleviate UE receiver blocking issues, whereas in the case of measurements on GSM900 band the general assumption seems to be that uplink compressed mode transmission is not necessary. Although some preliminary work has been included in 25.215 section 6.1.1.1 entitled “use of compressed mode/dual receiver for monitoring”, it is the view of RAN WG1 that such issues should be checked by RAN 4 and that if a mapping between compressed mode configurations and frequency bands or between compressed mode configurations and UE implementation is to be provided in the specifications it should be on RAN 4 responsibility. However the level of standardization of this mapping is to be clarified and an other way forward could be a UE manufacturer declaration in a UE capability document such as TR 25.926. RAN WG1 would like RAN WG4 to confirm that this issue is within its scope and thanks RAN WG4 for its future work on this.