

Agenda Item: Ad Hoc 29
Source: Siemens
Title: CR 25.225-025 on RTD measurement in UTRAN for UP-TDD
Document for: Decision

According to TS 25.305 the OTDOA-IPDL method may be used for UE positioning (UP) in the TDD mode. This method requires knowledge of the relative NodeB timing. TDD NodeBs are synchronised at a minimum required accuracy of 3 μ s. This value leads to an undesired bad accuracy for the OTDOA methods. By measuring the timing difference (RTD) between neighbouring cells the accuracy of the position calculation will be improved.

5.2.10 SFN-SFN observed time difference

Definition	SFN-SFN observed time difference = $T_{RxTSk} - T_{RxTSi}$, in chips, where T_{RxTSi} : time of start (defined by the first detected path in time) of a timeslot received by the LMU from the TDD cell i . T_{RxTSk} : time of start (defined by the first detected path in time) of a timeslot received by the LMU from the cell k that is closest in time to the start of the received timeslot of the TDD cell i .
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