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Source: TSG RAN WG1

To: TSG-RAN WG2, TSG-RAN WG4

Cc: TSG-RAN WG3,

Title: RTD measurement in UTRAN

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TSG-RAN WG1 would like to inform other RAN TSGs of the proposed new UTRAN measurement for the support of OTDOA measurements in UTRAN Rel'4 for UE positioning. The proposal made in Tdoc R1-01-0064 is to insert the RTD measurement in UTRAN side to find out the SFN-SFN type 2 information in the UTRAN side as well. This would allow UTRAN to find out relative time difference of different transmitters for accurate positioning performance with OTDOA method, inline with the stage 2 description given in TS 25.305.

The proposed measurement definition for UTRAN measurements in 25.215 is given below:

## 5.2.x SFN-SFN observed time difference

Definition	The relative timing difference between cell j and cell i, defined as TCPICHRxi - TCPICHRxi, where:
	T <sub>CPICHRxi</sub> is the time when the LMU receives one Primary CPICH slot from cell j
	T <sub>CPICHRxi</sub> is the time when the LMU receives the Primary CPICH slot from cell i that is closest in
	time to the Primary CPICH slot received from cell j.

TSG RAN WG1 would like to get the feedback from other RAN WGs on their understanding whether this measurement is needed to complete the OTDOA method measurements as given in stage 2 description in TS 25.305. TSG RAN WG1 would also like to verify where this measurement is thought to take place, i.e. whether it is in the RNC or Node B.

TSG RAN WG1 can provide CRs on this issue for the next TSG RAN#11 for inclusions in UTRAN Rel'4.