

**TSG-RAN Working Group 1 meeting No. 20**  
**May 21- 25, Busan, Korea**

***TSGR1-01-0436***

TSG-RAN Working Group 3 meeting #19  
Cardiff, UK, 26<sup>th</sup> Feb – 2<sup>nd</sup> Mar 2001

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**SOURCE: TSG RAN WG3**

**TO: TSG RAN WG4**

**CC: TSG RAN WG1**

**TITLE: RESPONSE TO LS ON MEASUREMENT DEFINITION AND ACCURACY**

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RAN3 would like to thank RAN1 for the LS (R1-010147/R3-010614) on the definition of SFN-SFN Observed Time Difference measurement on the UTRAN side.

RAN3 would also like to thank RAN4 for its response LS (R4-10364/R3-10963) on the definition and accuracy of the measurement for UE Positioning purpose.

At RAN3#19 meeting, there was discussion on the issue of the definition of the mapping of the SFN-SFN Observed Time Difference measurement on the UTRAN side as it is necessary to know which values will have to be reported in the messages over the lub and lur interface in order to complete the remaining Open Issues the related Release 4 Work Item.

RAN3 Working Assumption is that this measurement will be between –1280 chips and +1280 chips (as defined by RAN1) with a granularity of  $1/16^{\text{th}}$  of chip as for the SFN-SFN Observed Time Difference type 2 measurement on the UE side. Thus the values reported in the messages are between –20480 and +20479. RAN3 would like to have guidance from RAN4 on this subject.

Furthermore, after checking the relevant RAN4 specification, the values 00000 and 40961 in the mapping of the SFN-SFN Observed Time Difference type 2 measurement on the UE side were spotted: according to the definition of the measurement (time difference between the considered Time Slot and the closest Time Slot boundary), these values should not exist, except if a Time Slot sent by one Node B has a greater duration than a Time Slot sent by another Node B. RAN3 would like to have some clarifications on the existence of these values.