

TSG-RAN Working Group 2 (Radio layer 2 and Radio layer 3) TSGR2#7(99)a28
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Sophia-Antipolis, France, 23 - 27 August 1999

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Source: TSG RAN WG3

Title: Liaison Statement on the support of different RL DL_TX_ power levels in case of Soft Handover

To: TSG RAN WG1

Copy: TSG RAN WG4, TSG RAN WG2

Recognising the relatively high error probability on the TPC bits signalled to the UTRAN, WG3 included a procedure on the lub/lur interfaces to correct situations in which the DL_TX_power of different cells has drifted too far apart.

Currently this procedure provides the same power reference value to all node-B's for all RL's.

During WG3 #6 in Sophia Antipolis the issue was raised if macro-diversity with deliberately different DL_TX_power levels on different RL's should be supported in R99. This situation seems to apply e.g. in case a UE is in macro-diversity with RL's from both a macro- and a micro-cell.

WG3 would kindly like to ask WG1 to clarify the possible use of different DL_TX_power levels for RL's in Soft Handover and the need for supporting this functionality in R99.

If such functionality is required to be supported in R99, WG3 would like to ask WG1 to provide further clarification on the required UTRAN functionality e.g. is it expected that in this case the offsets between the DL_TX_power levels for the different RL's should be kept constant ? WG3 would also like to know if DL_TX_power drifting corrections still have to be made in such situations ?