Source: **RAN WG4**

To: **RAN WG2**

Copy: **RAN WG1**

Title: **Response to liaison on synchronisation detection.**

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RAN WG4 thanks RAN WG2 for its liaison on synchronisation detection and would like to inform RAN2 of the current status of its work in the two areas identified.

Physical channel establishment criteria
RAN4 has not yet considered minimum performance requirements for the 'physical channel

Radio link failure
RAN4 is defining a minimum performance requirement for the detection of a radio link failure for the purposes of RRC connection re-establishment. It is difficult to devise a test for the time between the loss of a DPCH to a radio link failure indication from the physical layer, as the indication is internal to the UE. Therefore, RAN4 is defining a minimum requirement for the time between the loss of a DPCH to the start of the random access in which the UE transmits the RRC connection re-establishment message. However, this time must also include the time taken for the UE to perform a cell reselection. More information on the definition of these requirements can be found in R4-99802.

In addition, RAN4 will define a minimum performance requirement for the time between the loss of a downlink DPCH and the termination of the uplink transmission.