

To: TSG RAN WG3
From: TSG RAN WG1
Cc: TSG RAN WG2
Subject: LS on Separate delivery of Transport Blocks within a Transport Block Set by MAC-d to L1

RAN WG1 would like to thank TSG RAN WG3 for the Liaison on Separate delivery of Transport Blocks within a Transport Block Set by MAC-d to L1 and would like to answer the questions raised.

TSG RAN WG2 is responsible for the mapping of data onto L1 via the L1/L2 interface [1]. Segmentation is applied in the RLC layer. A Transport Block typically corresponds to an RLC PDU.

A Transport Block Set (TBS) is defined as a set of Transport Blocks which are exchanged between L1 and MAC at the same time instance using the same transport channel. Several Transport Blocks (TB) can arrive per Transmission Time Interval (TTI).

The physical layer operates exactly according to the L1 radio frame timing. Current assumption is that all Transport Blocks have to arrive at one time instance specified by the Transmission Timing interval. Only when all Transport Blocks are received, L1 processing (incl. interleaving, rate matching and multiplexing) of that Transport Block Set can be performed.

[1] TS 25.302 Service provided by the physical layer V.2.4.0; R2-99555