

Source: TSG RAN WG2

Title: Liaison Statement to TSG RAN WG1 on Random Access
and Hybrid ARQ Type II/III

TSG RAN WG2 would like to inform TSG RAN WG1 about the state of discussion on random access and the usage of Hybrid ARQ Type II/III mechanisms and address some questions about to WG1.

1.) Random Access

WG2 has studied the Random Access mechanisms in UTRAN. Especially the initial access mechanism was discussed. Therefore WG2 would like to know the opinion of WG1 to the following aspects:

WG 2 sees an advantage to have the same amount on user data payload on the RACH for FDD and TDD. Is it possible from WG1 point of view that the RACH can contain a payload for L3 information greater than 50 bytes, what are possible consequences in terms of system performance in that case? What is the maximum data payload which is possible on RACH for the initial access in TDD? What is the view of WG1 about the applicability of access schemes which not transfer the complete data needed for access to the network in the first RACH burst?

WG2 would like to inform WG1 that Liaison Statement to WG1 handles further aspects on RACH [1].

2.) Usage of Hybrid ARQ Type II/III schemes within RLC protocol

WG2 has studied adaptive retransmission schemes within the RLC protocol. It was agreed to base the future work on RLC protocol on the assumption, that Hybrid ARQ Type II/III mechanism in the downlink would be supported. Whether or not the usage of Hybrid ARQ type II/III is mandatory is ffs and depends on the further studies in WG2 and WG1. The RLC can operate also without using the Hybrid ARQ Type II/III mechanism. WG2 would like to receive the view from WG1 on that.

Especially WG2 questions WG1 to comment about the impacts on the physical layer e.g. physical channels, channel coding and also about the complexity of Hybrid ARQ II/III mechanisms from the Layer 1 point of view.

TSG RAN WG2 would like to invite WG1 to comment on the mentioned items if possible until the next WG2 meeting (13th –16th April 99).

References: [1] TSG RAN WG2 186/99 Liaison Statement to WG1 on CPCH concept

Remark: This document was accepted at WG2 meeting #2 as TSG RAN WG2 (99)195