

Agenda Item: 8

Source: Siemens AG

Title: Proposed Liaison Statement to TSG RAN WG1

Document for:

TSG RAN WG2 would like to inform TSG RAN WG1 about the state of discussion on random access and the usage of Hybrid ARQ 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 see a big advantage to have the same amount on user data payload on the RACH for FDD and TDD. Is it possible that the RACH can contain a payload for L3 information greater than 50 bytes, what are possible the consequences in terms of system performance in that case? WG2 would like to inform WG1 that Liaison Statement to WG1 handles further aspects on RACH [1].

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?

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 is mandatory is ffs and depends on the further are accepted for TDD and FDD. It was also agreed to have this Hybrid ARQ Type II/III mechanism optional for FDD. For TDD the applicability was agreed as a working assumption, it was proposed to have Hybrid ARQ Type II/III mandatory for TDD. 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 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: TSG RAN WG2