TSG-RAN Working Group 1 *TSGR1#8(99)f64*
New York, U.S.A., 12 – 15 October 1999

TSG-RAN Working Group 2 (Radio layer 2 and Radio layer 3) *TSGR2#7(99)d11*
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Source: TSG RAN WG2

To: TSG RAN WG1

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Title: Answer to liaison on transport channel multiplexing

RAN WG2 has received the liaison on transport channel multiplexing from RAN WG1. The questions from RAN WG1 were discussed, and the answers to the questions from perspective of RAN WG2 are given below.

1) UE capabilities / Limitation of the multiplexing flexibility

RAN2 welcomes the view of RAN WG1 that the maximum value of the number of TrCHs in a CCTrCH, the maximum value of the number of transport blocks on each transport channel, and the maximum value of the number of DPDCHs are given from the UE capabilities as a good starting point, but there may be more issues that have to be considered in the future. To understand better the view of RAN1 on this subject RAN2 would like to ask for some clarifications

- Is only the maximum number of TrCHs in CCTrCH, and the maximum number of transport blocks on each transport channel relevant, or are there also limitations on combinations? E.g. if a maximum number of 5 TrCHs are allowed, and a maximum number of 10 TBs per TrCH is allowed, does the UE have the capability of processing 50 TBs per TTI?
- What is the limiting factor of the maximum number of bits per transport block?
- What is the limiting factor of the maximum aggregate number of bits of all TrCHs?

RAN WG2 would like to point out that the number of different mobile classes should be kept as low as possible to simplify network configuration.

2) Predefined values for all transport format attributes of BCH

From viewpoint of RAN WG2, a TTI of 10ms or 20ms for BCH seems reasonable. The number of transport blocks for BCH and their size are still under discussion in RAN WG2. RAN WG2 will inform RAN WG1 as soon as results are available.

3) Limitation of the number of applicable Transport Format Combinations for FACH, RACH, PCH

RAN WG2 sees actually no need to limit the number of applicable Transport Format Combinations for FACH, RACH, PCH. If RAN WG1has the view that there are significant simplifications for the terminal possible by limiting the number of applicable Transport Format Combinations, RAN WG2 would like to receive further information on this subject. Regarding the amount of broadcast information, optimisation can be performed by RAN WG2 without impacts on the physical layer.

4) 2nd multiplexing for DSCH (FDD)

Multiplexing of several transport channels should be allowed for DSCH in the opinion of RAN WG2. The corresponding figure in 25.302 v3.0.0 was changed accordingly .

5) Usage of TTI's for DSCH

From the view of RAN WG2 the possible TTI's for DSCH should not be limited. If RAN WG1 found any sentence indicating such a limitation in RAN WG2 documents, please inform us so it can be corrected.