

TSG-RAN Working Group 1 meeting No. 18
January 15-18, Boston, U.S.A.

TSGR1-01-0145

TSG-RAN Working Group 2 (Radio L2 and Radio L3)
Edinburgh, United Kingdom, 15 - 19 January 2001

R2-010205

Source: TSG-RAN WG2

To: TSG-RAN WG1, TSG-RAN WG4

Cc:

Title: LS on Results of HSDPA Study Item AdHoc

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RAN WG2 met in Edinburgh, Scotland January 15-16, 2001 in an AdHoc session to discuss the study items for Release 4.

A number of contributions were discussed for the study item on HSDPA. Attached please find the approved TR 25.950 v0.1.0. RAN WG2 understands that RAN WG1 will contribute to this TR in the form of simulation assumptions and results and additional text for Layer 1 topics such as AMC, MIMO, etc. It is further assumed that from hereon, TR 25.950 will contain the results of all the studies in both WG1 and WG2 for presentation to the RAN.

In addition RAN WG2 has the following questions:

1. There have been proposals providing flexibility to change the modulation and coding schemes on retransmissions when implementing HARQ. WG2 would like to ask WG1 to comment on the feasibility and related complexity issues.
2. In the above context or in case of variable SF, it could also be possible to change the number of transport blocks in the retransmission attempts. WG2 would like to ask WG1 to comment on the feasibility and related complexity issues.
3. It has also been proposed to have the TTI as dynamic attribute of the HS-DSCH transport channel. This is a substantial change from R99 and WG2 sees it as needing further study especially in terms of scheduling aspects. WG2 requests WG1 comments regarding the desirability of such a feature.
4. The R99 architecture permits multiple DSCH transport channels to be multiplexed onto a single CCTrCH. WG2 requests comments from WG1 on the feasibility of this to HS-DSCH for HSDPA.
5. There has also been a proposal discussed in RAN2 to consider introduction of a stand-alone DSCH which should be deployed on a separate carrier. This channel could reuse the R'99 protocol architecture above the physical layer, but would allow to consider physical layer processing schemes different from the ones used presently. RAN WG2 would like to ask RAN WG1 and RAN WG4 to consider this high-speed downlink access approach and to comment on feasibility, including aspects of coexistence and compatibility with UMTS R'99 physical channels.



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