

**Agenda item:**

**Source:** HSDPA Rapporteur

**Title:** Status Report to RAN#11 of Study item "High Speed Downlink Packet Access"

**Document for:** approval

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This is the Rapporteur's report on the progress made so far in RAN (WG1 and WG2) on the Study Item "High Speed Downlink Packet Access". RAN WG2 leads this Study item.

**RAN WG2**

In RAN WG2#18 and WG2#19 significant progress was made on this study item. A two-day AdHoc on Rel-5 study items was conducted on January 15-16 in Edinburgh, UK. Contributions on Protocol Architecture, HARQ, Scheduling at Node B, Adaptive Modulation and Coding, TDD related issues and Fast Cell Selection were discussed. It was concluded that the proposed architecture was compatible with R99 and could co-exist in the same network. R99 mobiles could continue to be supported in a network configured with HSDPA. Recommendations on the way forward were also discussed and agreed on. These conclusions and recommendations are captured in the TR 25.950 v2.0.0. LSs were also sent to RAN WG3 and WG4 indicating impacts and areas of further study identified for the respective groups.

**RAN WG1**

RAN WG1 continued its work on simulation and complexity studies for the various techniques discussed for HSDPA. In RAN WG1#18 and WG1#19 numerous contribution addressing different aspect of HSDPA were reviewed. The contributions addressed a broad range of issues including AMC, HARQ, advanced receiver structures, different MIMO schemes, complexity issues for HSDPA and standalone DSCH etc. Based on the contributions, text proposals for the TR were generated. The RAN WG1 TR 25.848 was revised based on the approved text proposals. RAN WG1's recommendations on various techniques proposed for HSDPA are captured in the HSDPA TR 25.950 v2.0.0.