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TSG RAN meeting #11

13 – 16 March 2001

Palm Springs, USA

Agenda Item:

Source: TIM/Telecom Italia Lab, Omnitel/Vodafone, Telefonica, Sonera, VoiceStream, Telia AB, Telekom Austria, Cingular, Blu.

Title: Development of solutions for High Speed Downlink Packet Access

Document for: Discussion

Introduction

The area of High Speed Downlink Packet Access is indeed important from an operator perspective since it would enable the provision of a number of services that are expected to be required by the market in the near future. As a matter of fact, also other 3G systems have already developed solutions to this respect.

The feasibility study carried out up to now (Study Item) achieved good results and therefore the companies listed above as a source encourage the establishment a Work Item devoted to this topic.

In order to be effective, the Work Item should be finalized as soon as possible providing a stable and technically valid solution.

Requirements

the companies listed above as source of the document require that the outcome of the work item results in:

- a **single** solution for the provision of High Speed Packet Data (as opposite to a concept of family of solutions or of a single solution made of several options).

Moreover, the following principles should be followed when agreeing the single technical solution:

- The development of the solution should focus on feasible solutions, trying to minimize the impact on the current system Specifications and on the current products
- The development of the solution shall consider realistic deployment environments by the operators and in particular:
 - the limited number antennas that the operators can deploy per site
 - the limited amount of spectrum today available to most operators.
- A pragmatic approach when defining the parameters of the system should be taken, to avoid the difficulties occurred in the past on other technical areas, when many options were allowed in the Specifications leading to a number of problems (refer, e.g., to the testing procedures and therefore to the action undertaken by GSM Association ISG on typical parameters settings for ensuring practical UE interoperability and testing).
- The solution proposed shall be technically stable, and possibly included in Release 5.

Conclusions

Based on the above considerations, the companies source of the document propose to approve a Work Item on High Speed Downlink Packet Access to be finalized by the end of the year. Clear guidance should be given to the WGs to follow a pragmatic approach in order to ensure the timely completion of the work and the minimum impact on the system.

The High Speed Technique chosen shall consist in a single solution and shall take into account realistic deployment scenarios.