

TSG-RAN meeting #3
Yokohama, Japan , 21-23, April,1999

TSGR#3 (99)181

Agenda Item: 4

Source: TSG RAN WG1

Title: Liaison on UE physical layer capabilities

Document for: Information

TSG-RAN Working Group 1 meeting #3
Nynäshamn, Sweden 22-26, March 1999

TSGR1#3(99)323

Source : TSG RAN WG1

Title : Liaison on UE physical layer capabilities

To : TSG T WG2

cc : TSG RAN, TSG RAN WG2, TSG RAN WG3, TSG RAN WG4, TSG SA WG1

TSG RAN WG1 has received the LS on Principles for the continued work with Terminal Capabilities from TSG T WG2 and the issue has been considered within an ad-hoc on physical layer capabilities.

TSG RAN WG1 has studied the definitions given in the annex of the LS. In addition to those definitions, TSG RAN WG1 considers it necessary to further define **fundamental physical layer features**, which are within the responsibility of TSG RAN WG1. These features are essential to radio network planning, system performance (e.g., coverage, capacity) and roaming. These fundamental features may not be part of the physical layer baseline implementation capabilities, but their support shall be mandatory for all UE (e.g., transmit power control and downlink transmit antenna diversity). Furthermore, there are fundamental features which are dependent on operational mode (e.g., discontinuous transmission and site selection diversity transmission). Some of these features are still under study, for example for complexity evaluation.

In accordance with the LS from TSG T WG2, TSG RAN WG1 has started the work on defining UE physical layer baseline implementation capabilities. TSG RAN WG1 awaits further guidance on the service capabilities required for UE.