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(54) **Method, system and device for exchanging data packets in wide area cellular telephone networks**

(57) The exchanging of data packets involves at least a first node and at least a second node capable of connecting each other through lub interface and exchanging data packets using a protocol stack which comprises an IP or ATM based transport network layer and at least a physical layer (Phy1, Phy2). One of the two nodes can be a target node-B (NB_target) connected to at least one user equipment (UE) through Uu interface and the other node, a hub node-B (NB_hub) connected to a radio net-

work controller (RNC). The lub interface between both nodes uses a TD-CDMA physical layer and a layer 2 over said TD-CDMA physical layer consisting of Media Access Control (MAC) protocol and Radio Link Control (RLC) protocol. The TD-CDMA physical layer in lub interface uses a frequency different from the frequency used at the physical layer (Phy2) configured in Uu interface.

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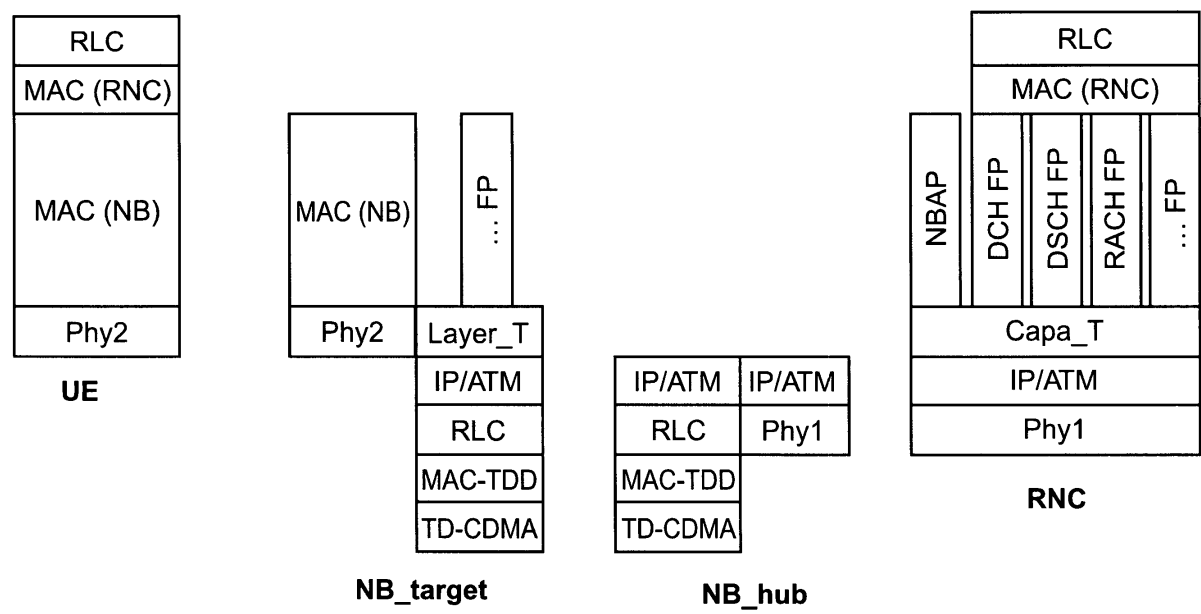


FIG. 5