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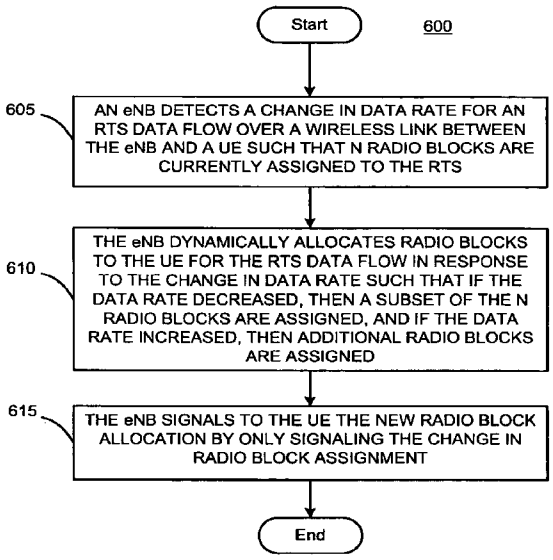
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(54) **Title:** DYNAMIC RESOURCE ALLOCATION, SCHEDULING AND SIGNALING FOR VARIABLE DATA RATE SERVICE IN LTE




(57) **Abstract:** A method and apparatus are provided for dynamic resource allocation, scheduling and signaling for variable data real time services (RTS) in long term evolution (LTE) systems. Preferably, changes in data rate for uplink RTS traffic are reported to an evolved Node B (eNB) by a UE using layer 1, 2 or 3 signaling. The eNB dynamically allocates physical resources in response to a change in data rate by adding or removing radio blocks currently assigned to the data flow, and the eNB signals the new resource assignment to the UE. In an alternate embodiment, tables stored at the eNB and the UE describe mappings of RTS data rates to physical resources under certain channel conditions, such that the UE uses the table to locally assign physical resources according to changes in UL data rates. Additionally, a method and apparatus for high level configuration of RTS data flows is also presented.

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