cell (to which the UE eventually undergoes serving cell change). Hence, sending L1 measurement reports to all candidate cells is not an optimal solution.

[0013] In one non-limiting aspect, the present disclosure refers to a method comprising: receiving, from a gNodeB Distributed Unit (gNB-DU) serving a user equipment (UE) in a current serving cell, a Physical Downlink Control Channel (PDCCH) order to perform uplink synchronization with at least one Layer (L1/L2) Triggered Mobility (LTM) candidate cell of at least one candidate gNB-DU; transmitting, in a Random Access Channel (RACH) Request message, an indication to send L1 measurement report along with RACH preamble, to the at least one LTM candidate gNB-DU serving the at least one LTM candidate cell; receiving, a Random Access Response (RAR) message along with an uplink (UL) scheduling grant to send L1 measurement report, to the at least one LTM candidate gNB-DU, either directly from the at least one LTM candidate gNB-DU or via the serving gNB-DU; and transmitting the L1 measurement report to the at least one LTM candidate gNB-DU, in response to receipt of the UL scheduling grant in the RAR message. Alternatively, any other similar L2 or L1 message could be used to deliver the scheduling grant to the UE.

[0014] In another non-limiting aspect, the present disclosure refers to an apparatus comprising hardware configures to: receive, from a gNodeB Distributed Unit (gNB-DU) serving a user equipment (UE) in a current serving cell, a Physical Downlink Control Channel (PDCCH) order to perform uplink synchronization with at least one Layer (L1/L2) Triggered Mobility (LTM) candidate cell of at least one candidate gNB-DU; transmit, in a Random Access Channel (RACH) Request message, an indication to send L1 measurement report along with RACH preamble, to the at least one LTM candidate gNB-DU serving the at least one LTM candidate cell; receive, a Random Access Response (RAR) message along with an uplink (UL) scheduling grant, to

send L1 measurement report to the at least one LTM candidate gNB-DU, either directly from the at least one LTM candidate gNB-DU or via the serving gNB-DU; and transmit the L1 measurement report to the at least one LTM candidate gNB-DU, in response to receipt of the UL scheduling grant in the RAR message. Alternatively, any other similar L2 or L1 message could be used to deliver the scheduling grant to the UE.

[0015] In yet another non-limiting aspect, the present disclosure refers to a non-transitory computer-readable medium having computer-readable instructions that when executed by a processor causes the processor to perform operations of: obtaining, from a gNodeB Distributed Unit (gNB-DU) serving a user equipment (UE) in a current serving cell, a Physical Downlink Control Channel (PDCCH) order to perform uplink synchronization with at least one Layer (L1/L2) Triggered Mobility (LTM) candidate cell of at least one candidate gNB-DU; transmitting, in a Random Access Channel (RACH) Request message, an indication to send L1 measurement report along with RACH preamble, to the at least one LTM candidate gNB-DU serving the at least one LTM candidate cell; obtaining, a Random Access Response (RAR) message along with an uplink (UL) scheduling grant, to send L1 measurement report to the at least one LTM candidate gNB-DU, either directly from the at least one LTM candidate gNB-DU or via the serving gNB-DU; and transmitting the L1 measurement report to the at least one LTM candidate gNB-DU, in response to receipt of the UL scheduling grant in the RAR message.

[0016] The foregoing summary is illustrative only and is not intended to be in any way limiting. In addition to the illustrative aspects, aspects, and features described above, further aspects and features will become apparent by reference to the drawings and the following detailed description.