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(54) Title: ADAPTING MOBILITY UNDER DISCONTINUOUS COVERAGE

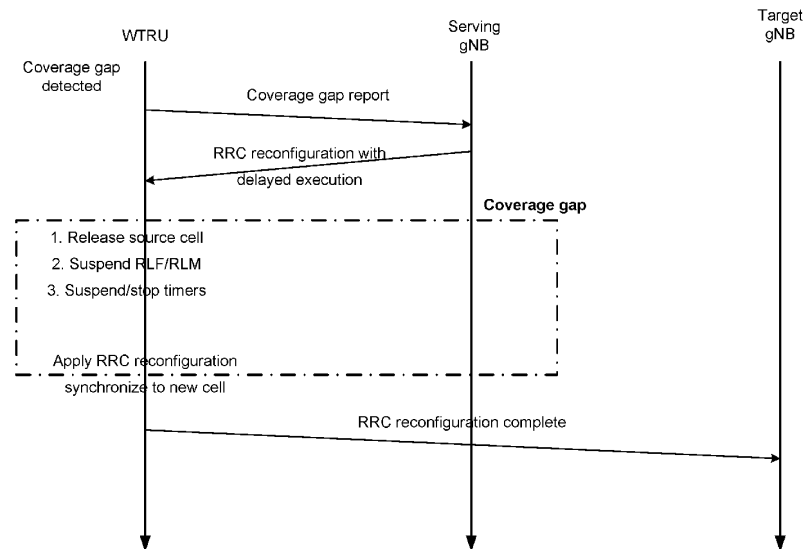


FIG. 5

(57) Abstract: Systems, methods, and instrumentalities are described herein for adapting mobility under discontinuous coverage (e.g., associated with gap(s) in coverage). In examples, a WTRU may determine the start and duration of discontinuous coverage. Discontinuous coverage may be explicitly indicated in SI (e.g., start UTC 10:00 + 90s). The determination of the start and duration of discontinuous coverage may be implicitly determined via assistance information broadcasted in a SI cell stop time and a neighboring cell start time. The start and duration of discontinuous coverage may be calculated via location information (e.g., the distance between the WTRU and serving/neighbor cell center and the diameter of cell coverage). The WTRU may report it is about to enter a coverage gap at some configured offset from time (e.g., via a timer) of the coverage gap.

[Continued on next page]

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