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AND REPORTING DEGRADED SIGNAL MEASUREMENT OF A SERVING CELL

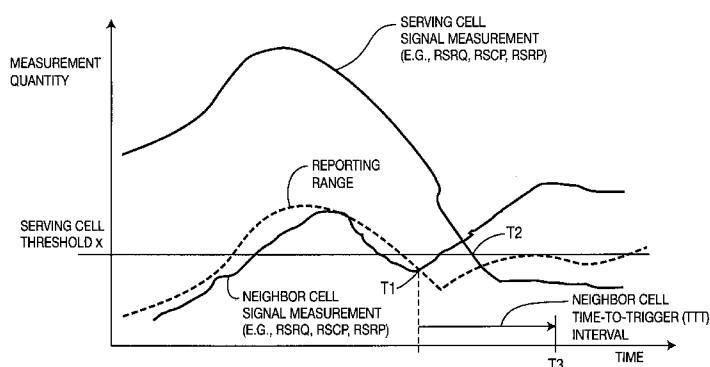


FIG. 1

T1: START TTT INTERVAL WHEN SIGNAL MEASUREMENT OF NEIGHBOR
CELL RISES ABOVE REPORTING RANGE.
T2: SEND MEASUREMENT REPORT WHEN SIGNAL MEASUREMENT OF
SERVING CELL FALLS BELOW SERVING CELL THRESHOLD X.
T3: TTT INTERVAL EXPIRES.

(57) Abstract: Various methods for adjusting a reselection timer and cell ranking criteria are disclosed. The ranking criteria of a serving or neighbor cell, or a reselection timer in a wireless transmit/receive unit (WTRU), is adjusted based on how a serving cell signal measurement, (e.g., signal strength, signal quality), compares to a plurality of thresholds over a time interval. In another method, cell ranking criteria is adjusted based on a hysteresis value and a scaling factor when a maximum number of reselections is exceeded and a high mobility factor is detected. Furthermore, a method of reporting cell signal measurements is disclosed, whereby a time-to-trigger time (TTT) interval is started when the neighbor cell signal measurement rises above a reporting range threshold. If the serving cell signal measurement falls below a serving cell threshold, the TTT interval is adjusted and thereby a measurement report is transmitted during the TTT interval.

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