CLAIMS

1. A method for wireless communication at a user equipment, UE, comprising:

receiving (1605), from a source base station, a conditional handover configuration that indicates one or more target base stations, one or more measurement thresholds for initiating a handover from the source base station to the one or more target base stations, and one or more timers associated with the handover to the one or more target base stations, wherein the one or more timers include at least a first conditional handover timer;

determining (1610), based at least in part on the conditional handover configuration, that a first measurement threshold for initiating the handover to a first target base station is satisfied;

transmitting (1615), based at least in part on the conditional handover configuration, a first random access request to the first target base station to initiate a first random access procedure for the handover to the first target base station;

starting (1620) the first conditional handover timer for completing the first random access procedure responsive to the transmitting the first random access request; and

determining (1625) a first conditional handover failure responsive to the first conditional handover timer expiring prior to completing the first random access procedure.

2. The method of claim 1, wherein the conditional handover configuration includes at least a first conditional handover configuration for the first target base station and a second conditional handover configuration for a second target base station.

3. The method of claim 1, further comprising

transmitting, responsive to the first conditional handover timer expiring, a second random access request to a second target base station to initiate a second random access procedure for the handover to the second target base station; and

starting a second conditional handover timer for completing the second random access procedure.

4. The method of claim 3, further comprising:

initiating a connection re-establishment procedure upon determining that no other target base stations are configured for conditional handover.

5. The method of claim 3, wherein a first duration of the first conditional handover timer is different than a second duration of the second conditional handover timer.

6. The method of claim 3, further comprising:

selecting, responsive to the first conditional handover timer expiring, the second target base station from a plurality of available target base stations based at least in part on a channel quality measurement associated with each of the plurality of available target base stations.

7. The method of claim 1, further comprising

initiating, responsive to the first conditional handover timer expiring, a connection re-establishment procedure.

8. The method of claim 1, further comprising:

receiving, from the source base station, a deconfiguration message that deconfigures one or more conditional handover configurations; and

deconfiguring the one or more conditional handover configurations based at least in part on the deconfiguration message.

9. The method of claim 8, wherein the deconfiguration message is received in radio resource control signaling from the source base station.

10. The method of claim 8, further comprising:

deleting one or more of a radio resource control configuration or a first measurement and reporting configuration for conditional handover trigger provided in a first conditional handover configuration; and

discontinuing conditional handover measurements associated with the conditional handover configuration and evaluation of whether the measurements meet conditional handover criteria.

11. An apparatus for wireless communication at a user equipment, UE, comprising:

means (1120) for receiving, from a source base station, a conditional handover configuration that indicates one or more target base stations, one or more measurement thresholds for initiating a handover from the source base station to the one or more target base stations, and one or more timers associated with the handover to the one or more target base stations, wherein the one or more timers include at least a first conditional handover timer;

means (1140) for determining, based at least in part on the conditional handover configuration, that a first measurement threshold for initiating the handover to a first target base station is satisfied;

means (1120) for transmitting, based at least in part on the conditional handover configuration, a first random access request to the first target base station to initiate a first random access procedure for the handover to the first target base station;

means (1140) for starting the first conditional handover timer for completing the first random access procedure responsive to the transmitting the first random access request; and

means (1140) for determining a first conditional handover failure responsive to the first conditional handover timer expiring prior to completing the first random access procedure.

12. The apparatus of claim 11, further comprising:

means for transmitting, responsive to the first conditional handover timer expiring a second random access request to a second target base station to initiate a second random access procedure for the handover to the second target base station; and

means for starting a second conditional handover timer for completing the second random access procedure.

13. The apparatus of claim 11, further comprising:

means for initiating, responsive to the first conditional handover timer expiring, a connection re-establishment procedure.

14. The apparatus of claim 11, further comprising:

means for receiving, from the source base station, a deconfiguration message that deconfigures one or more conditional handover configurations; and

means for deconfiguring the one or more conditional handover configurations based at least in part on the deconfiguration message.

15. The apparatus of claim 14, wherein the deconfiguration message is received in radio resource control signaling from the source base station, and wherein the apparatus further comprises:

means for deleting one or more of a radio resource control configuration or a first measurement and reporting configuration for conditional handover trigger provided in a first conditional handover configuration; and

means for discontinuing conditional handover measurements associated with the conditional handover configuration and evaluation of whether the measurements meet conditional handover criteria.