CLAIMS

What is claimed:

1. A method performed by a wireless transmit/receive unit (WTRU), the method comprising:

receiving a plurality of transmission configuration indicator (TCI) states associated with a respective plurality of non-serving cells;

receiving medium access control (MAC) control element (CE) signaling comprising an indication to active one of the plurality of TCI states;

activating the one TCI state; and

transitioning to a non-serving cell associated with the one TCI state.

2. The method of claim 1, further comprising receiving the plurality of TCI states via radio resource control (RRC) signaling.

3. The method of claim 1, wherein each of the plurality of TCI states is associated with a physical downlink control channel (PDCCH).

4. The method of claim 1, wherein each of the plurality of TCI states is associated with a physical downlink shared channel (PDSCH).

5. The method of claim 1, wherein each of the plurality of TCI states is associated with a reference signal (RS) for selecting a beam of a non-serving cell.

6. The method of claim 1, wherein each of the plurality of TCI states is associated with a synchronization signal and physical broadcast control channel block (SSB) for selecting a beam of a non-serving cell.

7. The method of claim 6, wherein the SSB is associated with physical cell ID (PCI) of a non-serving cell.

8. The method of claim 1, further comprising receiving an indication to activate a subset of the plurality of TCI states.

9. The method of claim 8, the indication to activate a subset of the plurality of TCI states is received via downlink control information (DCI) signaling.

10. A wireless transmit/receive unit (WTRU) comprising:
a transceiver; and
a processor configured to:
receive, via the transceiver, a plurality of transmission configuration indicator (TCI) states associated with a respective plurality of non-serving cells;
receive, via the transceiver, medium access control (MAC) control element (CE) signaling comprising an indication to active one of the plurality of TCI states;
activate the one TCI state; and
transition to a non-serving cell associated with the one TCI state.

11. The WTRU of claim 10, further comprising receiving the plurality of TCI states via radio resource control (RRC) signaling.

12. The WTRU of claim 10, wherein each of the plurality of TCI states is associated with a physical downlink control channel (PDCCH).

13. The WTRU of claim 10, wherein each of the plurality of TCI states is associated with a physical downlink shared channel (PDSCH).

14. The WTRU of claim 10, wherein each of the plurality of TCI states is associated with a reference signal (RS) for selecting a beam of a non-serving cell.

15. The WTRU of claim 10, wherein each of the plurality of TCI states is associated with a synchronization signal and physical broadcast control channel block (SSB) for selecting a beam of a non-serving cell.

16. The WTRU of claim 15, wherein the SSB is associated with physical cell ID (PCI) of a non-serving cell.

17. The WTRU of claim 10, further comprising receiving an indication to activate a subset of the plurality of TCI states.

18. The WTRU of claim 17, the indication to activate a subset of the plurality of TCI states is received via downlink control information (DCI) signaling.

19. The WTRU of claim 10, wherein WTRU is configured with the plurality of TCI states.