CLAIMS

1. A method for wireless communications at a user equipment (UE), comprising:

receiving a first downlink resource configuration for downlink communications in a connected mode;

receiving a second downlink resource configuration for downlink communications in an idle mode, the second downlink resource configuration comprising a set of parameters comprising one or more of a frequency hopping indicator or a coverage enhancement (CE) mode indicator for the downlink communications in the idle mode;

entering the idle mode; and

receiving, while in the idle mode, one or more downlink transmissions according to the first downlink resource configuration or the second downlink resource configuration.

2. The method of claim 1, wherein the first downlink resource configuration comprises a downlink control channel frequency hopping indicator, and wherein the receiving the one or more downlink transmissions is performed according to the downlink control channel frequency hopping indicator.

3. The method of claim 1, further comprising:

storing a state of a downlink control channel frequency hopping indicator of the first downlink resource configuration when the second downlink resource configuration was received, wherein the receiving the one or more downlink transmissions is performed according to the stored state of the downlink control channel frequency hopping indicator.

4. The method of claim 1, wherein receiving the one or more downlink transmissions comprises:

receiving a downlink control channel message comprising a grant for a downlink shared channel transmission, wherein the downlink control channel message comprises a second frequency hopping indicator; and

receiving the downlink shared channel transmission based at least in part on the second frequency hopping indicator.

5. The method of claim 1, further comprising:

receiving a first set of frequency hopping parameters associated with a first CE mode and a second set of frequency hopping parameters associated with a second CE mode.

6. The method of claim 5, wherein receiving the one or more downlink transmissions comprises:

receiving the one or more downlink transmissions according to the first set of frequency hopping parameters based at least in part on the CE mode indicator.

7. The method of claim 5, wherein the first set of frequency hopping parameters comprise a first number of repetitions for the one or more downlink transmissions and the second set of frequency hopping parameters comprise a second number of repetitions for the one or more downlink transmissions, and wherein the receiving comprises:

receiving the one or more downlink transmissions according to the first number of repetitions or the second number of repetitions based at least in part on the CE mode indicator.

8. The method of claim 5, wherein receiving the one or more downlink transmissions comprises:

receiving the one or more downlink transmissions according to the second set of frequency hopping parameters based at least in part on a number of repetitions of the one or more downlink transmissions satisfying a threshold number of repetitions.

9. The method of claim 5, wherein receiving the one or more downlink transmissions comprises:

receiving the one or more downlink transmissions according to the first set of frequency hopping parameters based at least in part on determining that the UE was configured for the first CE mode at a time that the UE received the second downlink resource configuration.

10. The method of claim 1, wherein the frequency hopping indicator comprises a first frequency hopping indicator associated with a physical downlink control channel and a second frequency hopping indicator associated with a physical downlink shared channel.

11. The method of claim 1, wherein receiving the one or more downlink transmissions comprises:

receiving a downlink control channel message comprising a grant for a downlink shared channel transmission, wherein the downlink control channel message comprises a repetition indicator associated with the downlink shared channel transmission, and wherein the second downlink resource configuration comprises an indicator of a correspondence between a value for the repetition indicator and a number of repetitions indicated by the repetition indicator.

12. The method of claim 11, wherein the indicator of the correspondence between the value for the repetition indicator and the number of repetitions indicated by the repetition indicator comprises a maximum a number of repetitions for the downlink shared channel transmission.

13. A method for wireless communications at a base station, comprising:

transmitting, to a user equipment (UE), a first downlink resource configuration for downlink communications to the UE in a connected mode;

transmitting, to the UE, a second downlink resource configuration for downlink communications to the UE an idle mode, the second downlink resource configuration comprising a set of parameters comprising one or more of a frequency hopping indicator or a coverage enhancement (CE) mode indicator for the downlink communications in the idle mode; and

transmitting, subsequent to the UE transitioning from the connected mode to the idle mode, one or more downlink transmissions according to the first downlink resource configuration or the second downlink resource configuration.

14. The method of claim 13, wherein the first downlink resource configuration comprises a downlink control channel frequency hopping indicator, and wherein the transmitting the one or more downlink transmissions is performed according to the downlink control channel frequency hopping indicator.

15. The method of claim 13, further comprising:

storing a state of a downlink control channel frequency hopping indicator of the first downlink resource configuration when the second downlink resource configuration was transmitted to the UE, wherein the transmitting the one or more downlink transmissions is performed according to the stored state of the downlink control channel frequency hopping indicator.

16. The method of claim 13, wherein transmitting the one or more downlink transmissions comprises:

transmitting a downlink control channel message comprising a grant for a downlink shared channel transmission, wherein the downlink control channel message comprises a second frequency hopping indicator; and

transmitting the downlink shared channel transmission based at least in part on the second frequency hopping indicator.

17. The method of claim 13, further comprising:

transmitting a first set of frequency hopping parameters associated with a first CE mode and a second set of frequency hopping parameters associated with a second CE mode.

18. The method of claim 17, wherein transmitting the one or more downlink transmissions comprises:

transmitting the one or more downlink transmissions according to the first set of frequency hopping parameters based at least in part on the CE mode indicator.

19. The method of claim 17, wherein the first set of frequency hopping parameters comprise a first number of repetitions for the one or more downlink transmissions

and the second set of frequency hopping parameters comprise a second number of repetitions for the one or more downlink transmissions, and wherein the transmitting comprises:

transmitting the one or more downlink transmissions according to the first number of repetitions or the second number of repetitions based at least in part on the CE mode indicator.

20. The method of claim 17, wherein transmitting the one or more downlink transmissions comprises:

transmitting the one or more downlink transmissions according to the second set of frequency hopping parameters based at least in part on a number of repetitions of the one or more downlink transmissions satisfying a threshold number of repetitions.

21. The method of claim 17, wherein transmitting the one or more downlink transmissions comprises:

transmitting the one or more downlink transmissions according to the first set of frequency hopping parameters based at least in part on determining that the UE was configured for the first CE mode at a time that the UE received the second downlink resource configuration.

22. The method of claim 13, wherein the frequency hopping indicator comprises a first frequency hopping indicator associated with a physical downlink control channel and a second frequency hopping indicator associated with a physical downlink shared channel.

23. The method of claim 13, wherein transmitting the one or more downlink transmissions comprises:

transmitting a downlink control channel message comprising a grant for a downlink shared channel transmission, wherein the downlink control channel message comprises a repetition indicator associated with the downlink shared channel transmission, and wherein the second downlink resource configuration comprises an indicator of a correspondence between a value for the repetition indicator and a number of repetitions indicated by the repetition indicator.

24. The method of claim 23, wherein the indicator of the correspondence between the value for the repetition indicator and the number of repetitions indicated by the repetition indicator comprises a maximum a number of repetitions for the downlink shared channel transmission.

25. An apparatus for wireless communications at a user equipment (UE), comprising:

a processor,

memory coupled with the processor; and

instructions stored in the memory and executable by the processor to cause the apparatus to:

receive a first downlink resource configuration for downlink communications in a connected mode;

receive a second downlink resource configuration for downlink communications in an idle mode, the second downlink resource configuration comprising a set of parameters comprising one or more of a frequency hopping indicator or a coverage enhancement (CE) mode indicator for the downlink communications in the idle mode;

enter the idle mode; and

receive, while in the idle mode, one or more downlink transmissions according to the first downlink resource configuration or the second downlink resource configuration.

26. The apparatus of claim 25, wherein the first downlink resource configuration comprises a downlink control channel frequency hopping indicator, and wherein the receiving the one or more downlink transmissions is performed according to the downlink control channel frequency hopping indicator.

27. The apparatus of claim 25, wherein the instructions are further executable by the processor to cause the apparatus to:

store a state of a downlink control channel frequency hopping indicator of the first downlink resource configuration when the second downlink resource configuration was

received, wherein the receiving the one or more downlink transmissions is performed according to the stored state of the downlink control channel frequency hopping indicator.

28. The apparatus of claim 25, wherein the instructions to receive the one or more downlink transmissions are executable by the processor to cause the apparatus to:

receive a downlink control channel message comprising a grant for a downlink shared channel transmission, wherein the downlink control channel message comprises a second frequency hopping indicator; and

receive the downlink shared channel transmission based at least in part on the second frequency hopping indicator.

29. The apparatus of claim 25, wherein the instructions are further executable by the processor to cause the apparatus to:

receive a first set of frequency hopping parameters associated with a first CE mode and a second set of frequency hopping parameters associated with a second CE mode.

30. The apparatus of claim 29, wherein the instructions to receive the one or more downlink transmissions are executable by the processor to cause the apparatus to:

receive the one or more downlink transmissions according to the first set of frequency hopping parameters based at least in part on the CE mode indicator.

31. The apparatus of claim 29, wherein the first set of frequency hopping parameters comprise a first number of repetitions for the one or more downlink transmissions and the second set of frequency hopping parameters comprise a second number of repetitions for the one or more downlink transmissions, and comprises:

receive the one or more downlink transmissions according to the first number of repetitions or the second number of repetitions based at least in part on the CE mode indicator.

32. The apparatus of claim 29, wherein the instructions to receive the one or more downlink transmissions are executable by the processor to cause the apparatus to:

receive the one or more downlink transmissions according to the second set of frequency hopping parameters based at least in part on a number of repetitions of the one or more downlink transmissions satisfying a threshold number of repetitions.

33. The apparatus of claim 29, wherein the instructions to receive the one or more downlink transmissions are executable by the processor to cause the apparatus to:

receive the one or more downlink transmissions according to the first set of frequency hopping parameters based at least in part on determining that the UE was configured for the first CE mode at a time that the UE received the second downlink resource configuration.

34. The apparatus of claim 25, wherein the frequency hopping indicator comprises a first frequency hopping indicator associated with a physical downlink control channel and a second frequency hopping indicator associated with a physical downlink shared channel.

35. The apparatus of claim 25, wherein the instructions to receive the one or more downlink transmissions are executable by the processor to cause the apparatus to:

receive a downlink control channel message comprising a grant for a downlink shared channel transmission, wherein the downlink control channel message comprises a repetition indicator associated with the downlink shared channel transmission, and wherein the second downlink resource configuration comprises an indicator of a correspondence between a value for the repetition indicator and a number of repetitions indicated by the repetition indicator.

36. The apparatus of claim 35, wherein the indicator of the correspondence between the value for the repetition indicator and the number of repetitions indicated by the repetition indicator comprises a maximum a number of repetitions for the downlink shared channel transmission.

37. An apparatus for wireless communications at a base station, comprising:

a processor,

memory coupled with the processor; and

instructions stored in the memory and executable by the processor to cause the apparatus to:

transmit, to a user equipment (UE), a first downlink resource configuration for downlink communications to the UE in a connected mode;

transmit, to the UE, a second downlink resource configuration for downlink communications to the UE an idle mode, the second downlink resource configuration comprising a set of parameters comprising one or more of a frequency hopping indicator or a coverage enhancement (CE) mode indicator for the downlink communications in the idle mode; and

transmit, subsequent to the UE transitioning from the connected mode to the idle mode, one or more downlink transmissions according to the first downlink resource configuration or the second downlink resource configuration.

38. The apparatus of claim 37, wherein the first downlink resource configuration comprises a downlink control channel frequency hopping indicator, and wherein the transmitting the one or more downlink transmissions is performed according to the downlink control channel frequency hopping indicator.

39. The apparatus of claim 37, wherein the instructions are further executable by the processor to cause the apparatus to:

store a state of a downlink control channel frequency hopping indicator of the first downlink resource configuration when the second downlink resource configuration was transmitted to the UE, wherein the transmitting the one or more downlink transmissions is performed according to the stored state of the downlink control channel frequency hopping indicator.

40. The apparatus of claim 37, wherein the instructions to transmit the one or more downlink transmissions are executable by the processor to cause the apparatus to:

transmit a downlink control channel message comprising a grant for a downlink shared channel transmission, wherein the downlink control channel message comprises a second frequency hopping indicator; and

transmit the downlink shared channel transmission based at least in part on the second frequency hopping indicator.

41. The apparatus of claim 37, wherein the instructions are further executable by the processor to cause the apparatus to:

transmit a first set of frequency hopping parameters associated with a first CE mode and a second set of frequency hopping parameters associated with a second CE mode.

42. The apparatus of claim 41, wherein the instructions to transmit the one or more downlink transmissions are executable by the processor to cause the apparatus to:

transmit the one or more downlink transmissions according to the first set of frequency hopping parameters based at least in part on the CE mode indicator.

43. The apparatus of claim 41, wherein the first set of frequency hopping parameters comprise a first number of repetitions for the one or more downlink transmissions and the second set of frequency hopping parameters comprise a second number of repetitions for the one or more downlink transmissions, and comprises:

transmit the one or more downlink transmissions according to the first number of repetitions or the second number of repetitions based at least in part on the CE mode indicator.

44. The apparatus of claim 41, wherein the instructions to transmit the one or more downlink transmissions are executable by the processor to cause the apparatus to:

transmit the one or more downlink transmissions according to the second set of frequency hopping parameters based at least in part on a number of repetitions of the one or more downlink transmissions satisfying a threshold number of repetitions.

45. The apparatus of claim 41, wherein the instructions to transmit the one or more downlink transmissions are executable by the processor to cause the apparatus to:

transmit the one or more downlink transmissions according to the first set of frequency hopping parameters based at least in part on determining that the UE was configured for the first CE mode at a time that the UE received the second downlink resource configuration.

46. The apparatus of claim 37, wherein the frequency hopping indicator comprises a first frequency hopping indicator associated with a physical downlink control channel and a second frequency hopping indicator associated with a physical downlink shared channel.

47. The apparatus of claim 37, wherein the instructions to transmit the one or more downlink transmissions are executable by the processor to cause the apparatus to:

transmit a downlink control channel message comprising a grant for a downlink shared channel transmission, wherein the downlink control channel message comprises a repetition indicator associated with the downlink shared channel transmission, and wherein the second downlink resource configuration comprises an indicator of a correspondence between a value for the repetition indicator and a number of repetitions indicated by the repetition indicator.

48. The apparatus of claim 47, wherein the indicator of the correspondence between the value for the repetition indicator and the number of repetitions indicated by the repetition indicator comprises a maximum a number of repetitions for the downlink shared channel transmission.