CLAIMS

1. A method of wireless communication operable at a subordinate entity, comprising: communicating with a scheduling entity utilizing a plurality of self-contained subframes comprising a first subframe and a second subframe, each of the self-contained subframes comprising an uplink (UL) portion and a downlink (DL) portion; waking up from a discontinuous reception (DRX) off mode to receive DL control information from the scheduling entity in the DL portion of the first subframe; transmitting first UL data comprising a wake-up burst structure including a plurality of reference signal bursts to the scheduling entity in the UL portion of the first subframe, wherein the plurality of reference signal bursts are uniformly spaced in at least a portion of the UL portion of the first subframe; and transmitting second UL data comprising a nominal number of reference signal bursts to the scheduling entity in the UL portion of the second subframe, wherein the wake-up burst structure comprises a greater number of reference signal bursts than the nominal number of reference signal bursts.

2. The method of claim 1, wherein the nominal number of reference signal bursts are uniformly spaced in at least a portion of the UL portion of the second subframe.

3. The method of claim 1, further comprising: precoding the plurality of reference signal bursts differently from one another such that the plurality of reference signal bursts are transmitted by different antennas of the subordinate entity.

4. The method of claim 1, further comprising: waking up from a discontinuous reception (DRX) off mode during a DL-centric subframe of the plurality of self-contained subframes, wherein the DL-centric subframe is earlier in time than the second subframe; receiving DL control information, from the scheduling entity, in the DL-centric subframe; and transmitting UL data comprising a plurality of reference signal bursts to the scheduling entity in the UL portion of the second subframe such that the plurality of reference signal bursts are uniformly spaced in at least a portion of the UL portion of the second subframe.

5. The method of claim 1, further comprising: utilizing continuous phase modulation or constant phase modulation to transmit the reference signal bursts.

6. The method of claim 1, further comprising: configuring the first UL data to indicate that the reference signal bursts conform with a suggested structure of the reference signal bursts that is included in the DL control information.

7. A method of wireless communication operable at a scheduling entity, comprising: communicating with a subordinate entity utilizing a plurality of self-contained subframes

comprising a first subframe and a second subframe, each of the self-contained subframes comprising an uplink (UL) portion and a downlink (DL) portion; transmitting DL control information to the subordinate entity in the DL portion of the first subframe, the subordinate entity waking up from a discontinuous reception (DRX) off mode in the first subframe; receiving first UL data comprising a wake-up burst structure including a plurality of reference signal bursts from the subordinate entity in the UL portion of the first subframe, wherein the plurality of reference signal bursts are uniformly spaced in at least a portion of the UL portion of the first subframe; and receiving second UL data comprising a nominal number of reference signal bursts from the scheduled entity in the UL portion of the second subframe, wherein the wake-up burst structure comprises a greater number of reference signal bursts than the nominal number of reference signal bursts.

8. The method of claim 7, wherein the nominal number of reference signal bursts are uniformly spaced in at least a portion of the UL portion of the second subframe.

9. The method of claim 7, wherein the DL control information is configured to request the subordinate entity to precode the plurality of reference signal bursts differently from one another such that the plurality of reference signal bursts are transmitted by different antennas of the subordinate entity.

10. The method of claim 7, further comprising: receiving the plurality of reference signal bursts respectively from different antennas of the subordinate entity.

11. The method of claim 7, further comprising: configuring the DL control information to indicate a predetermined periodicity of the reference signal bursts in the UL portion.

12. The method of claim 11, further comprising determining the predetermined periodicity based on at least one of: a time duration that the subordinate entity has been in a sleep mode; a link quality between the subordinate entity and the scheduling entity in a previous wake-up period; an amount of DL data scheduled to be transmitted by the scheduling entity; a delay spread of an uplink channel between the scheduling entity and the subordinate entity; or a Doppler spread of an uplink channel between the scheduling entity and the subordinate entity.

13. The method of claim 7, wherein the DL control information comprises a suggested structure of the reference signal bursts, and wherein the first UL data is configured to indicate that the reference signal bursts conform with the suggested structure.

14. An apparatus for wireless communication, comprising: a communication interface configured to communicate with a scheduling entity; a memory comprising executable code; and a processor operatively coupled to the communication interface and the memory, wherein the processor is

configured by the executable code to: communicate with the scheduling entity utilizing a plurality of self-contained subframes comprising a first subframe and a second subframe, each of the self-contained subframes comprising an uplink (UL) portion and a downlink (DL) portion; wake up from a discontinuous reception (DRX) off mode to receive DL control information from the scheduling entity in the DL portion of the first subframe; transmit first UL data comprising a wake-up burst structure including a plurality of reference signal bursts to the scheduling entity in the UL portion of the first subframe, wherein the plurality of reference signal bursts are uniformly spaced in at least a portion of the UL portion of the first subframe; and transmit second UL data comprising the nominal number of reference signal bursts to the scheduling entity in the UL portion of the second subframe, wherein the wake-up burst structure comprises a greater number of reference signal bursts than the nominal number of reference signal bursts.

15. The apparatus of claim 14, wherein the nominal number of reference signal bursts are uniformly spaced in at least a portion of the UL portion of the second subframe.

16. The apparatus of claim 14, wherein the processor is further configured to: precode the plurality of reference signal bursts differently from one another such that the plurality of reference signal bursts are transmitted by different antennas of the subordinate entity.

17. The apparatus of claim 14, wherein the processor is further configured to: wake up from a discontinuous reception (DRX) off mode during a DL-centric subframe of the plurality of self-contained subframes, wherein the DL-centric subframe is earlier in time than the second subframe; receive DL control information, from the scheduling entity, in the DL-centric subframe; and transmit UL data comprising a plurality of reference signal bursts to the scheduling entity in the UL portion of the second subframe such that the plurality of reference signal bursts are uniformly spaced in at least a portion of the UL portion of the second subframe.

18. The apparatus of claim 14, wherein the processor is further configured to: utilize continuous phase modulation or constant phase modulation to transmit the reference signal bursts.

19. The apparatus of claim 14, wherein the processor is further configured to: configure the UL data to indicate that the reference signal bursts conform with a suggested structure of the reference signal bursts that is included in the DL control information.

20. An apparatus for wireless communication, comprising: a communication interface configured to communicate with a subordinate entity; a memory comprising executable code; and a processor operatively coupled to the communication interface and the memory, wherein the processor is configured by the executable code to: communicate with the subordinate entity utilizing a plurality of self-contained subframes comprising a first subframe and a second subframe, each of the self-contained subframes comprising an uplink (UL) portion and a

downlink (DL) portion; transmit DL control information to the subordinate entity in the DL portion of the first subframe, the subordinate entity waking up from a discontinuous reception (DRX) off mode in the first subframe; receive first UL data comprising a wake-up burst structure including a plurality of reference signal bursts from the subordinate entity in the UL portion of the first subframe, wherein the plurality of reference signal bursts are uniformly spaced in at least a portion of the UL portion of the first subframe; and receive second UL data comprising a nominal number of reference signal bursts from the scheduled entity in the UL portion of the second subframe, wherein the wake-up burst structure comprises a greater number of reference signal bursts than the nominal number of reference signal bursts.

21. The apparatus of claim 20, wherein the nominal number of reference signal bursts are uniformly spaced in at least a portion of the UL portion of the second subframe.

22. The apparatus of claim 20, wherein the processor is further configured to: configure the DL control information to request the subordinate entity to precode the plurality of reference signal bursts differently from one another such that the plurality of reference signal bursts are transmitted by different antennas of the subordinate entity.

23. The apparatus of claim 20, wherein the processor is further configured to: receive the plurality of reference signal bursts respectively from different antennas of the subordinate entity.

24. The apparatus of claim 20, wherein the processor is further configured to: configure the DL control information to indicate a predetermined periodicity of the reference signal bursts in the UL portion.

25. The apparatus of claim 24, wherein the processor is further configured to determine the predetermined periodicity based on at least one of: a time duration that the subordinate entity has been in a sleep mode; a link quality between the subordinate entity and the scheduling entity in a previous wake-up period; an amount of DL data scheduled to be transmitted by the scheduling entity; a delay spread of an uplink channel between the scheduling entity and the subordinate entity; or a Doppler spread of an uplink channel between the scheduling entity and the subordinate entity.

26. The apparatus of claim 20, wherein the DL control information comprises a suggested structure of the reference signal bursts, and wherein the first UL data is configured to indicate that the reference signal bursts conform with the suggested structure.