CLAIMS

What is Claimed:

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

receiving configuration information that indicates a set of cyclic prefix extension (CPE) starting positions associated with sharing a channel occupancy time (COT),

wherein each CPE starting position of the set of CPE starting positions is associated with a sidelink transmission priority,

wherein each CPE has a duration;

receiving a sidelink control information (SCI) message, wherein the SCI message indicates a remaining COT duration;

transmitting a CPE in the shared COT at a starting position for a duration, wherein the starting position and the duration of the CPE are determined based on a priority of a sidelink message and the configuration information;

transmitting the sidelink message in the shared COT following the CPE at a transmission time determined from the remaining COT duration.

2. The method of claim 1, wherein the shared COT is initiated by a second WTRU that sends the SCI message.

3. The method of claim 1, wherein the sidelink message is a physical sidelink control channel (PSCCH) message or a physical sidelink shared channel (PSSCH) message.

4. The method of claim 1, wherein the SCI message indicates to share the shared COT.

5. The method of claim 1, wherein a type 2 listen-before-talk (LBT) is performed prior to transmitting the CPE.

6. The method of claim 1, wherein transmitting the CPE in the shared COT is further based on performing a type 2 listen-before-talk (LBT).

7. The method of claim 1, wherein the SCI message is received in a slot, wherein the transmission time is further determined based on the slot.

8. A wireless transmit-receive unit (WTRU) comprising:

a processor operatively coupled to a transceiver,

the processor and transceiver configured to receive configuration information that indicates a set of cyclic prefix extension (CPE) starting positions associated with sharing a channel occupancy time (COT),

wherein each CPE starting position of the set of CPE starting positions is associated with a sidelink transmission priority,

wherein each CPE has a duration;

the processor and transceiver configured to receive a sidelink control information (SCI) message, wherein the SCI message indicates a remaining COT duration;

the processor and transceiver configured to transmit a CPE in the shared COT at a starting position for a duration, wherein the starting position and the duration of the CPE are determined based on a priority of a sidelink message and the configuration information;

the processor and transceiver configured to transmit the sidelink message in the shared COT following the CPE at a transmission time determined from the remaining COT duration.

9. The WTRU of claim 8, wherein the shared COT is initiated by a second WTRU that sends the SCI message.

10. The WTRU of claim 8, wherein the sidelink message is a physical sidelink control channel (PSCCH) message or a physical sidelink shared channel (PSSCH) message.

11. The WTRU of claim 8, wherein the SCI message indicates to share the shared COT.

12. The WTRU of claim 8, wherein a type 2 listen-before-talk (LBT) is performed prior to transmitting the CPE.

13. The WTRU of claim 8, wherein transmitting the CPE in the shared COT is further based on performing a type 2 listen-before-talk (LBT).

14. The WTRU of claim 8, wherein the SCI message is received in a slot, wherein the transmission time is further determined based on the slot.