

CLAIMS

What is claimed is:

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

transmitting, from the WTRU to an evolved Node B (eNB), a request for semi-persistent scheduling (SPS) resources, wherein the request for SPS resources includes a periodicity of the requested SPS resources and a time offset indicative of a time in which the WTRU expects to have an SPS resource allocated;

receiving, by the WTRU from the eNB, in response to the transmitted request for SPS resources, an SPS configuration; and

transmitting data on a sidelink channel, by the WTRU, in accordance with the received SPS configuration and a ProSe Per-Packet Priority (PPPP).

2. The method according to claim 1, wherein the time offset of the transmitted request includes a subframe number (SFN) offset with respect to SFN 0 of the WTRU.

3. The method according to claim 1, wherein the received SPS configuration corresponds to a PC5 interface.

4. The method according to claim 1, wherein the SPS configuration is received over a physical downlink control channel (PDCCH).

5. The method according to claim 1, wherein the request includes an index of an SPS configuration.

6. The method according to claim 1, further comprising:
transmitting the data, in accordance with the a logical channel priority (LCP).

7. The method according to claim 1, wherein the transmitted request for SPS resources includes a PPPP information element.

8. A wireless transmit / receive unit (WTRU), the comprising:
a transmitter configured to transmit, from the WTRU to an evolved Node B (eNB), a request for semi-persistent scheduling (SPS) resources, wherein the request for SPS resources includes a periodicity of the requested SPS resources and a time offset indicative of a time in which the WTRU expects to have an SPS resource allocated;

a receiver configured to receive, by the WTRU from the eNB, in response to the transmitted request for SPS resources, an SPS configuration; and

the transmitter further configured to transmit data on a sidelink channel in accordance with the received SPS configuration and a ProSe Per-Packet Priority (PPPP).

9. The WTRU according to claim 8, wherein the time offset of the transmitted request includes a subframe number (SFN) offset with respect to SFN 0 of the WTRU.

10. The WTRU according to claim 8, wherein the received SPS configuration corresponds to a PC5 interface.

11. The WTRU according to claim 8, wherein the SPS configuration is received over a physical downlink control channel (PDCCH).

12. The WTRU according to claim 8, wherein the request includes an index of an SPS configuration.

13. The WTRU according to claim 8, further comprising:
the transmitter further configured to transmit the data, in accordance with a logical channel priority (LCP).

14. The WTRU according to claim 8, wherein the transmitted request for SPS resources includes a PPPP information element.

15. A method performed by an evolved Node B (eNB), the method comprising:

receiving, from a WTRU, a request for semi-persistent scheduling (SPS) resources, wherein the request for SPS resources includes a periodicity of the requested SPS resources and a time offset indicative of a time in which the WTRU expects to have an SPS resource allocated; and

transmitting, to the WTRU, in response to the received request for SPS resources, an SPS configuration;

wherein the SPS resources are used for transmission of data on a sidelink channel in accordance with an SPS configuration and a ProSe Per-Packet Priority (PPPP).

16. The method according to claim 15, wherein the time offset of the transmitted request includes a subframe number (SFN) offset with respect to SFN 0 of the WTRU.

17. The method according to claim 15, wherein the received SPS configuration corresponds to a PC5 interface.

18. The method according to claim 15, wherein the SPS configuration is received over a physical downlink control channel (PDCCH).

19. The method according to claim 15, wherein the request includes an index of an SPS configuration.

20. The method according to claim 15, wherein the transmitted request for SPS resources includes a PPPP information element.