## CLAIMS

1. A method of wireless communication at a first user equipment (UE), comprising:

generating a packet for transmission over a sidelink resource pool;

receiving, from a second UE, a report indicative of a first set of available sidelink resources of the sidelink resource pool;

monitoring a first sidelink control information (SCI) message in a sensing window;

estimating a first signal strength associated with the first SCI message;

determining, at the first UE, a second set of available sidelink resources of the sidelink resource pool based at least in part on the first signal strength;

determining a set of sidelink resources based on a resource selection procedure, the resource selection procedure comprising performing an AND-combining operation between the first set of available sidelink resources of the sidelink resource pool and the second set of available sidelink resources of the sidelink resource pool; and

transmitting the packet to the second UE on the set of sidelink resources of the sidelink resource pool.

2. The method of claim 1, further comprising:

transmitting a request to the second UE for the report.

3. The method of claim 1, further comprising:

receiving a second SCI message from a third UE, the second SCI message comprising information indicating a set of reserved resources; and

determining a second resource availability based on the second SCI message, the second resource availability comprising a third set of available sidelink resources of the sidelink resource pool,

wherein the determining the set of sidelink resources comprises determining the set of sidelink resources further based on the third set of available sidelink resources of the sidelink resource pool.

4. The method of claim 1, wherein the report comprises a first binary matrix including one or more first elements corresponding to the first set of available sidelink resources of the sidelink resource pool,

wherein a second binary matrix includes one or more second elements corresponding to the second set of available sidelink resources of the sidelink resource pool, and

wherein performing the AND-combining operation comprises performing a bitwise logical AND operation between the one or more first elements of the first binary matrix and the one or more second elements of the second binary matrix.

5. The method of claim 3, wherein the resource selection procedure further comprises:

determining a subset of reserved resources reserved in the set of reserved resources and another set of reserved resources, the another set of reserved resources comprising one or more sidelink resources other than the first set of available sidelink resources in the sidelink resource pool; and

updating the set of sidelink resources to include one or more reserved resources of the subset of reserved resources when a signal-to-interference ratio (SIR) of the one or more reserved resources between a second signal strength and a third signal strength is greater than or equal to a threshold,

wherein the second signal strength is associated with a first link between the first UE and the second UE, and

wherein the third signal strength is associated with a second link between the third UE and the second UE.

6. The method of claim 5, wherein the resource selection procedure further comprises:

determining a cross-link interference (CLI) of each sidelink resource of the one or more reserved resources of the subset of reserved resources, including the CLI of a respective sidelink resource of the one or more reserved resources of the subset of reserved resources between a fourth signal strength and a fifth signal strength; and

updating the set of the sidelink resources to exclude one or more interfered sidelink resources of the one or more reserved resources in response to a respective CLI of the one or more interfered sidelink resources being greater than or equal to a CLI threshold,

wherein the fourth signal strength is associated with a third link between the first UE and a fourth UE, and

wherein the fifth signal strength is associated with a fourth link between the fourth UE and a fifth UE.

7. The method of claim 3, wherein the resource selection procedure further comprises:

determining a cross-link interference (CLI) of each sidelink resource of the third set of available sidelink resources, including the CLI of a respective sidelink resource of the third set of available sidelink resources between a fourth signal strength and a fifth signal strength; and

updating the set of the sidelink resources to exclude one or more interfered sidelink resources of the third set of available sidelink resources in response to a respective CLI of the one or more interfered sidelink resources being greater than or equal to a CLI threshold,

wherein the fourth signal strength is associated with a third link between the first UE and a fourth UE, and

wherein the fifth signal strength is associated with a fourth link between the fourth UE and a fifth UE.

8. The method of claim 1, wherein the resource selection procedure comprises:

receiving a second SCI message from a third UE, the second SCI message comprising information indicating a set of reserved resources in a resource selection window;

determining a resource availability comprising a third set of available sidelink resources based on the second SCI message; and

determining the set of sidelink resources based on the third set of available sidelink resources.

9. The method of claim 1, further comprising:

determining the resource selection procedure based at least in part on one or more utilization parameters corresponding to one or more resources of the sidelink resource pool, wherein the one or more utilization parameters comprise one or more of:

a channel utilization parameter indicative of a measurement of a network load for the transmission associated with the packet;

a packet priority parameter indicative of a priority of the transmission associated with the packet;

a remaining packet delay budget (PDB) parameter indicative of a PDB of the transmission associated with the packet;

a parameter indicative of a cast type associated with the packet;

a parameter indicative of a distance between the first UE and the second UE;

a packet reliability requirement parameter indicative of a level of a transmission characteristic of the transmission associated with the packet;

a parameter indicative of a periodicity at which the first UE is configured to sense received signals; or

a parameter indicative of a power at which the first UE is configured to transmit using the set of sidelink resources.

10. The method of claim 9, wherein the channel utilization parameter comprises a Channel Busy Ratio (CBR) value calculated using a received power in a set of measured resources corresponding to the sidelink resource pool, and

wherein the resource selection procedure is selected based on the CBR value exceeding a threshold.

11. The method of claim 10, further comprising:

determining the resource selection procedure as one of a sensing procedure or a non-sensing procedure for the first UE based on the CBR value exceeding the threshold.

12. An apparatus for wireless communication at a first user equipment (UE), the apparatus comprising:

one or more processors; and

one or more memories coupled to the one or more processors,

wherein the one or more processors are configured to cause the first UE to:

generate a packet for transmission over a sidelink resource pool;

receive, from a second UE, a report indicative of a first set of available sidelink resources of the sidelink resource pool;

monitor a first sidelink control information (SCI) message in a sensing window;

estimate a first signal strength associated with the first SCI message;

determine, at the first UE, a second set of available sidelink resources of the sidelink resource pool based at least in part on the first signal strength;

determine a set of sidelink resources based on a resource selection procedure, wherein to determine the set of sidelink resources based on the resource selection procedure, the one or more processors are configured to cause the first UE to perform an AND-combining operation between the first set of available sidelink resources of the sidelink resource pool and the second set of available sidelink resources of the sidelink resource pool; and

transmit the packet to the second UE on the set of sidelink resources of the sidelink resource pool.

13. The apparatus of claim 12, wherein the one or more processors are further configured to cause the first UE to:

receive a second SCI message from a third UE, wherein the second SCI message comprises information that indicates a set of reserved resources; and

determine a second resource availability based on the second SCI message, wherein the second resource availability comprises a third set of available sidelink resources of the sidelink resource pool,

wherein to determine the set of sidelink resources, the one or more processors are further configured to cause the first UE to determine the set of sidelink resources further based on the third set of available sidelink resources of the sidelink resource pool.

14. The apparatus of claim 13, wherein the one or more processors are further configured to cause the first UE to:

determine a subset of reserved resources reserved in the set of reserved resources and another set of reserved resources, wherein the another set of reserved resources comprises one or more sidelink resources other than the first set of available sidelink resources in the sidelink resource pool; and

update the set of sidelink resources to include one or more reserved resources of the subset of reserved resources when a signal-to-interference ratio (SIR) of the one or more reserved resources between a second signal strength and a third signal strength is greater than or equal to a threshold,

wherein the second signal strength is associated with a first link between the first UE and the second UE, and

wherein the third signal strength is associated with a second link between the third UE and the second UE.

15. The apparatus of claim 13, wherein the one or more processors are further configured to cause the first UE to:

determine a cross-link interference (CLI) of each sidelink resource of the third set of available sidelink resources, wherein the CLI or each sidelink resource of the third set of available sidelink resources includes the CLI of a respective sidelink resource of the third set of available sidelink resources between a fourth signal strength and a fifth signal strength; and

update the set of the sidelink resources to exclude one or more interfered sidelink resources of the third set of available sidelink resources in response to a respective CLI of the one or more interfered sidelink resources that is greater than or equal to a CLI threshold,

wherein the fourth signal strength is associated with a third link between the first UE and a fourth UE, and

wherein the fifth signal strength is associated with a fourth link between the fourth UE and a fifth UE.

16. The apparatus of claim 12, wherein the one or more processors are further configured to cause the first UE to:

determine the resource selection procedure based at least in part on one or more utilization parameters that correspond to one or more resources of the sidelink resource pool, wherein the one or more utilization parameters comprise one or more of:

a channel utilization parameter indicative of a measurement of a network load for the transmission associated with the packet;

a packet priority parameter indicative of a priority of the transmission associated with the packet;

a remaining packet delay budget (PDB) parameter indicative of a PDB of the transmission associated with the packet;

a parameter indicative of a cast type associated with the packet;

a parameter indicative of a distance between the first UE and the second UE;

a packet reliability requirement parameter indicative of a level of a transmission characteristic of the transmission associated with the packet;

a parameter indicative of a periodicity at which the first UE is configured to sense received signals; or

a parameter indicative of a power at which the first UE is configured to transmit on the set of the sidelink resources.

17. An apparatus for wireless communication at a first user equipment (UE), the apparatus comprising:

means for generating a packet for transmission over a sidelink resource pool;

means for receiving, from a second UE, a report indicative of a first set of available sidelink resources of the sidelink resource pool;

means for monitoring a first sidelink control information (SCI) message in a sensing window;

means for estimating a first signal strength associated with the first SCI message;

means for determining, at the first UE, a second set of available sidelink resources of the sidelink resource pool based at least in part on the first signal strength;

means for determining a set of sidelink resources based on a resource selection procedure, the resource selection procedure comprising means for performing an AND-combining operation between the first set of available sidelink resources of the sidelink resource pool and the second set of available sidelink resources of the sidelink resource pool; and

means for transmitting the packet to the second UE on the set of sidelink resources of the sidelink resource pool.

18. A non-transitory computer-readable medium storing computer-executable code in a first user equipment (UE), the computer-executable code comprising code for causing one or more processors to cause the first UE to:

generate a packet for transmission over a sidelink resource pool;

receive, from a second UE, a report indicative of a first set of available sidelink resources of the sidelink resource pool;

monitor a first sidelink control information (SCI) message in a sensing window;

estimate a first signal strength associated with the first SCI message;

determine, at the first UE, a second set of available sidelink resources of the sidelink resource pool based at least in part on the first signal strength;

determine a set of sidelink resources based on a resource selection procedure, the resource selection procedure comprising performing an AND-combining operation between the first set of available sidelink resources of the sidelink resource pool and the second set of available sidelink resources of the sidelink resource pool; and

transmit the packet to the second UE on the set of sidelink resources of the sidelink resource pool.

19. The apparatus of claim 12, wherein the one or more processors are further configured to cause the first UE to:

transmit a request to the second UE for the report.

20. The apparatus of claim 12, wherein the report comprises a first binary matrix that includes one or more first elements corresponding to the first set of available sidelink resources of the sidelink resource pool,

wherein a second binary matrix includes one or more second elements that correspond to the second set of available sidelink resources of the sidelink resource pool, and

wherein to perform the AND-combining operation, the one or more processors are further configured to cause the first UE to perform a bitwise logical AND operation between the one or more first elements of the first binary matrix and the one or more second elements of the second binary matrix.

21. The apparatus of claim 17, further comprising:

means for transmitting a request to the second UE for the report.

22. The apparatus of claim 17, wherein the report comprises a first binary matrix including one or more first elements corresponding to the first set of available sidelink resources of the sidelink resource pool,

wherein a second binary matrix includes one or more second elements corresponding to the second set of available sidelink resources of the sidelink resource pool, and

wherein the means for performing the AND-combining operation comprises means for performing a bitwise logical AND operation between the one or more first elements of the first binary matrix and the one or more second elements of the second binary matrix.

23. The non-transitory computer-readable medium of claim 18, wherein the computer-executable code further comprises code for causing the one or more processors to cause the first UE to:

transmit a request to the second UE for the report.

24. The non-transitory computer-readable medium of claim 18, wherein the report comprises a first binary matrix including one or more first elements corresponding to the first set of available sidelink resources of the sidelink resource pool,

wherein a second binary matrix includes one or more second elements corresponding to the second set of available sidelink resources of the sidelink resource pool, and

wherein to perform the AND-combining operation, the computer-executable code further comprises code for causing the one or more processors to cause the first UE to perform a bitwise logical AND operation between the one or more first elements of the first binary matrix and the one or more second elements of the second binary matrix.

25. The apparatus of claim 12, wherein to perform the resource selection procedure, the one or more processors are configured to cause the first UE to:

receive a second SCI message from a third UE, wherein the second SCI message comprises information that indicates a set of reserved resources in a resource selection window;

determine a resource availability that comprises a third set of available sidelink resources based on the second SCI message; and

determine the set of sidelink resources based on the third set of available sidelink resources.

26. The apparatus of claim 16, wherein the channel utilization parameter comprises a Channel Busy Ratio (CBR) value calculated based on a received power in a set of measured resources that corresponds to the sidelink resource pool, and

wherein the resource selection procedure is selected based on the CBR value compared to a threshold.

27. The apparatus of claim 26, wherein the one or more processors are further configured to cause the first UE to:

determine the resource selection procedure as one of a sensing procedure or a non-sensing procedure for the first UE based on the CBR value compared to the threshold.

28. The apparatus of claim 14, wherein the one or more processors are further configured to cause the first UE to:

determine a cross-link interference (CLI) of each sidelink resource of the third set of available sidelink resources, and determine the CLI of a respective sidelink resource of the third set of available sidelink resources between a fourth signal strength and a fifth signal strength; and

update the set of the sidelink resources to exclude one or more interfered sidelink resources of the third set of available sidelink resources in response to a respective CLI of the one or more interfered sidelink resources that is greater than or equal to a CLI threshold,

wherein the fourth signal strength is associated with a third link between the first UE and a fourth UE, and

wherein the fifth signal strength is associated with a fourth link between the fourth UE and a fifth UE.

29. The apparatus of claim 17, further comprising:

means for receiving a second SCI message from a third UE, the second SCI message comprising information indicating a set of reserved resources; and

means for determining a second resource availability based on the second SCI message, the second resource availability comprising a third set of available sidelink resources of the sidelink resource pool,

wherein the means for determining the set of sidelink resources comprises means for determining the set of sidelink resources further based on the third set of available sidelink resources of the sidelink resource pool.

30. The non-transitory computer-readable medium of claim 18, wherein the computer-executable code further comprises code for causing the one or more processors to cause the first UE to:

receive a second SCI message from a third UE, the second SCI message comprising information indicating a set of reserved resources; and

determine a second resource availability based on the second SCI message, the second resource availability comprising a third set of available sidelink resources of the sidelink resource pool,

wherein to determine the set of sidelink resources, the computer-executable code further comprises code for causing the one or more processors to cause the first UE to determine the set of sidelink resources further based on the third set of available sidelink resources of the sidelink resource pool.

31. An apparatus for wireless communication at a first user equipment (UE), the apparatus comprising:

one or more processors; and

one or more memories coupled to the one or more processors,

wherein the one or more processors are configured to cause the first UE to:

generate a packet for transmission over a sidelink channel;

receive, from a second UE, a report indicative of first sidelink resources that are available;

monitor a first sidelink control information (SCI) message in a sensing window;

determine a first signal strength associated with the first SCI message;

determine, at the first UE, second sidelink resources that are available based at least in part on the first signal strength;

determine available sidelink resources based on an AND-combining operation between the first sidelink resources and the second sidelink resources; and

transmit the packet to the second UE on the available sidelink resources.

32. The apparatus of claim 31, wherein the SCI message is an SCI format 1 message.

33. The apparatus of claim 31, wherein the first signal strength is a reference signal received power (RSRP).

34. The apparatus of claim 31, wherein to determine the available sidelink resources, the one or more processors are further configured to cause the first UE to determine the available sidelink resources based on a resource selection procedure that includes the AND-combining operation.

35. The apparatus of claim 31, wherein to determine the first signal strength associated with the first SCI message, the one or more processors are further configured to:

estimate the first signal strength associated with the first SCI message.

36. A method of wireless communication at a first user equipment (UE), comprising:

generating a packet for transmission over a sidelink channel;

receiving, from a second UE, a report indicative of first sidelink resources that are available;

monitoring a first sidelink control information (SCI) message in a sensing window;

determining a first signal strength associated with the first SCI message;

determining, at the first UE, second sidelink resources that are available based at least in part on the first signal strength;

determining available sidelink resources based on an AND-combining operation between the first sidelink resources and the second sidelink resources; and

transmitting the packet to the second UE on the available sidelink resources.

37. The method of claim 36, wherein the SCI message is an SCI format 1 message.

38. The method of claim 36, wherein the first signal strength is a reference signal received power (RSRP).

39. The method of claim 36, wherein determining the available sidelink resources comprises:

determining the available sidelink resources based on a resource selection procedure that includes the AND-combining operation.

40. The method of claim 36, wherein determining the first signal strength associated with the first SCI message comprises:

estimating the first signal strength associated with the first SCI message.

41. An apparatus for wireless communication at a first user equipment (UE), the apparatus comprising:

means for generating a packet for transmission over a sidelink channel;

means for receiving, from a second UE, a report indicative of first sidelink resources that are available;

means for monitoring a first sidelink control information (SCI) message in a sensing window;

means for determining a first signal strength associated with the first SCI message;

means for determining, at the first UE, second sidelink resources that are available based at least in part on the first signal strength;

means for determining available sidelink resources based on an AND-combining operation between the first sidelink resources and the second sidelink resources; and

means for transmitting the packet to the second UE on the available sidelink resources.

42. The apparatus of claim 41, wherein the SCI message is an SCI format 1 message.

43. The apparatus of claim 41, wherein the first signal strength is a reference signal received power (RSRP).

44. The apparatus of claim 41, wherein the means for determining the available sidelink resources comprises:

means for determining the available sidelink resources based on a resource selection procedure that includes the AND-combining operation.

45. The apparatus of claim 41, wherein the means for determining the first signal strength associated with the first SCI message comprises:

means for estimating the first signal strength associated with the first SCI message.

46. A non-transitory computer-readable medium storing computer-executable code in a first user equipment (UE), the computer-executable code comprising code for causing one or more processors to cause the first UE to:

generate a packet for transmission over a sidelink channel;

receive, from a second UE, a report indicative of first sidelink resources that are available;

monitor a first sidelink control information (SCI) message in a sensing window;

determine a first signal strength associated with the first SCI message;

determine, at the first UE, second sidelink resources that are available based at least in part on the first signal strength;

determine available sidelink resources based on an AND-combining operation between the first sidelink resources and the second sidelink resources; and

transmit the packet to the second UE on the available sidelink resources.

47. The non-transitory computer-readable medium of claim 46, wherein the SCI message is an SCI format 1 message.

48. The non-transitory computer-readable medium of claim 46, wherein the first signal strength is a reference signal received power (RSRP).

49. The non-transitory computer-readable medium of claim 46, wherein to determine the available sidelink resources, the computer-executable code further comprises code for causing the one or more processors to cause the first UE to:

determine the available sidelink resources based on a resource selection procedure that includes the AND-combining operation.

50. The non-transitory computer-readable medium of claim 46, wherein to determine the first signal strength associated with the first SCI message, the computer-executable code further comprises code for causing the one or more processors to cause the first UE to:

estimate the first signal strength associated with the first SCI message.