CLAIMS

1. An apparatus comprising:

a memory;

a transceiver; and

at least one processor coupled to the memory and the transceiver, wherein the apparatus is configured to:

communicate, with a second wireless communication device, a downlink control information (DCI) message that schedules a first communication signal and includes a second grant for transmitting a first feedback associated with the first communication signal;

communicate, with the second wireless communication device, a first grant for transmitting the first feedback associated with the first communication signal, the second grant being communicated before the first grant for transmitting the first feedback, wherein the first grant comprises a physical uplink control channel (PUCCH) trigger and the first grant does not schedule a physical downlink shared channel (PDSCH) communication; and

communicate, with the second wireless communication device, the first feedback based on the first grant.

2. The apparatus of claim 1, wherein the first feedback includes at least one of an acknowledgement (ACK) indicating reception of the first communication signal without error or includes a negative-acknowledgement (NACK).

3. The apparatus of claim 1, wherein the first communication signal is communicated via a physical downlink shared channel (PDSCH).

4. The apparatus of claim 1, wherein the PUCCH trigger comprises a hybrid automatic repeat request (HARQ) acknowledgment (ACK) request.

5. The apparatus of claim 1, wherein the apparatus is further configured to:

perform a listen-before-talk (LBT) procedure in an unlicensed spectrum for communicating the first feedback based on a second grant, wherein the performing the LBT results in an LBT fail.

6. The apparatus of claim 5, wherein the apparatus is further configured to:

perform the LBT procedure for communicating the first feedback using a first beam: and

communicate the first feedback based on the first grant using a second beam different from the first beam.

7. The apparatus of claim 1, wherein the apparatus is further configured to:

transmit, to the second wireless communication device, the DCI message.

8. The apparatus of claim 1, wherein the apparatus is further configured to:

transmit, to the second wireless communication device, the first grant.

9. The apparatus of claim 1, wherein the apparatus is further configured to:

receive, from the second wireless communication device, the first feedback.

10. The apparatus of claim 1, wherein the apparatus is further configured to:

receive, from the second wireless communication device, the first feedback in an uplink data portion of a slot.

11. The apparatus of claim 1, wherein the apparatus is further configured to:

receive, from the second wireless communication device, the first feedback in an uplink control portion of a slot.

12. A method of wireless communication, comprising:

communicating, by a first wireless communication device with a second wireless communication device, a downlink control information (DCI) message that schedules a first communication signal and includes a second grant for transmitting a first feedback associated with the first communication signal;

communicating, by the first wireless communication device with the second wireless communication device, a first grant for transmitting the first feedback associated with the first communication signal, the second grant being communicated before the first grant for transmitting the first feedback, wherein the first grant comprises a physical uplink control

channel (PUCCH) trigger and the first grant does not schedule a physical downlink shared channel (PDSCH) communication; and

communicating, by the first wireless communication device with the second wireless communication device, the first feedback based on the first grant.

13. The method of claim 12, wherein the communicating the first communication signal comprises communicating the first communication signal via a physical downlink shared channel (PDSCH).

14. The method of claim 12, wherein the PUCCH trigger comprises a hybrid automatic repeat request (HARQ) acknowledgment (ACK) request.

15. The method of claim 12, wherein the communicating the first feedback comprises transmitting, by the first wireless communication device to the second wireless communication device, the DCI message.

16. The method of claim 12, wherein the communicating the first grant comprises transmitting, by the first wireless communication device to the second wireless communication device, the first grant.

17. The method of claim 12, wherein the communicating the first feedback comprises receiving, by the first wireless communication device from the second wireless communication device, the first feedback.

18. The method of claim 12, wherein the communicating the first feedback comprises receiving, by the first wireless communication device from the second wireless communication device, the first feedback in an uplink data portion of a slot.

19. The method of claim 12, wherein the communicating the first feedback comprises receiving, by the first wireless communication device from the second wireless communication device, the first feedback in an uplink control portion of a slot.

20. A non-transitory computer-readable medium having program code recorded thereon, the program code comprising:

code for causing a first wireless communication device to communicate, with a second wireless communication device, a downlink control information (DCI) message that schedules a first communication signal and includes a second grant for transmitting a first feedback associated with the first communication signal;

code for causing the first wireless communication device to communicate, with the second wireless communication device, a first grant for transmitting the first feedback associated with the first communication signal, the second grant being communicated before the first grant for transmitting the first feedback, wherein the first grant comprises a physical uplink control channel (PUCCH) trigger and the first grant does not schedule a physical downlink shared channel (PDSCH) communication; and

code for causing the first wireless communication device to communicate, with the second wireless communication device, the first feedback based on the first grant.