CLAIMS

1. A method comprising:

receiving, by a wireless communication device, a response for link recovery, from a wireless communication node; and

determining, by the wireless communication device according to a downlink reference signal (RS), a beam state of a downlink signal, a defined number of time units after receiving the response for link recovery.

2. The method of claim 1, comprising:

determining, by the wireless communication device, a beam state of an uplink signal according to the downlink RS.

3. The method of claim 2, wherein

at least one of the beam state of the uplink signal comprises a spatial filter.

4. The method of claim 2, comprising:

determining, by the wireless communication device, a power control parameter of the uplink signal, the power control parameter comprising at least one of: a pathloss RS, an open-loop parameter, or a closed loop index.

5. The method of claim 4, comprising:

determining, by the wireless communication device, the pathloss RS according to:

the downlink RS, or

the downlink RS from a set of candidate RSes associated with the downlink signal.

6. The method of claim 4, comprising:

determining, by the wireless communication device, the open-loop parameter according to an open-loop parameter with a specific index, wherein

the specific index is a lowest value

.

7. The method of claim 4, comprising:

determining, by the wireless communication device, the closed-loop index according to a specific value, wherein

the specific value is a lowest value.

8. The method of claim 1, wherein the defined number of time units is 28.

9. The method of claim 2, wherein the downlink or uplink signal, and the set of candidate RSes associated with the downlink or uplink signal, are associated with a type of control resource sets (CORESETs).

10. The method of claim 9, wherein the type of CORESETs is associated with at least one of:

a transmission configuration indicator (TCI) state,

a physical downlink control channel (PDCCH),

a first type of physical downlink shared channel (PDSCH),

a first type of physical uplink shared channel (PUSCH),

a channel state information RS (CSI-RS), or

a sounding RS (SRS) resource.

11. The method of claim 10, wherein the CORESET is configured with a CORESET pool identifier (ID).

12. The method of claim 10, wherein

the first type of PDSCH is scheduled by a first PDCCH, wherein the first CORESET associated with the first PDCCH r corresponds to the type of CORESETs.

13. The method of claim 10, wherein

the first type of PUSCH is scheduled by a first PDCCH, wherein the first CORESET associated with the first PDCCH corresponds to the type of CORESETs.

14. The method of claim 10, wherein the CSI-RS or the group of CSI-RSes is indicated by a command signaling to share one or more beam states that are same as those of a first PDCCH.

15. The method of claim 10, wherein the SRS or the group of SRSes is indicated by a command signaling to share one or more beam states that are same as those of a first PUCCH or a first PUSCH.

16. A method comprising:

sending, by a wireless communication node to a wireless communication device, a response for link recovery; and

causing the wireless communication device to determine, according to a downlink reference signal (RS), a beam state of a downlink signal, a defined number of time units after receiving the response for link recovery.

17. A wireless communication node, comprising:

at least one processor configured to:

send, via a transmitter to a wireless communication device, a response for link recovery; and

causing the wireless communication device to determine, according to a downlink reference signal (RS), a beam state of a downlink signal, a defined number of time units after receiving the response for link recovery.

18. A wireless communication device, comprising:

at least one processor configured to:

receive, via a receiver, a response for link recovery, from a wireless communication node; and

determine, according to a downlink reference signal (RS), a beam state of a downlink signal, a defined number of time units after receiving the response for link recovery.

19. The wireless communication device of claim 18, wherein the at least one processor is configured to:

determine a beam state of an uplink signal according to the downlink RS.

20. The wireless communication device of claim 19, wherein at least one of the beam state of the uplink signal comprises a spatial filter.