CLAIMS

1. An apparatus for wireless communication, comprising: a memory; and at least one processor coupled to the memory, wherein the at least one processor is configured to: select a power control configuration for an uplink communication based at least in part on an uplink communication type of the uplink communication, wherein the uplink communication is for reception by a plurality of reception points associated with one or more network devices, and wherein the power control configuration is included in a set of power control configurations corresponding to the plurality of reception points; determine a path loss at a layer, wherein the layer is based at least in part on the uplink communication type; and transmit the uplink communication according to the selected power control configuration, wherein, to transmit the uplink communication according to the selected power control configuration, the at least one processor is configured to transmit the uplink communication with a transmit power that is based at least in part on the path loss determined at the layer.

2. The apparatus of claim 1, wherein the at least one processor is further configured to: receive, from a network device of the one or more network devices, signaling that indicates the set of power control configurations corresponding to the plurality of reception points.

3. The apparatus of claim 1, wherein the at least one processor is further configured to: receive an indication of the power control configuration from a network device of the one or more network devices; and select the power control configuration further based at least in part on the indication of the power control configuration.

4. The apparatus of claim 3, wherein, to receive the indication of the power control configuration, the at least one processor is configured to: receive the indication of the power control configuration via a downlink control information (DCI) message.

5. The apparatus of claim 1, wherein the set of power control configurations comprises, for each reception point of the plurality of reception points, a respective power control configuration for which the respective reception point is a primary reception point for the uplink communication.

6. The apparatus of claim 1, wherein the at least one processor is further configured to: determine one or more transmit power parameters for transmitting the uplink communication based at least in part on: a measurement of a downlink communication based at least in part on the selected power control configuration.

7. The apparatus of claim 6, wherein the downlink communication comprises a reference signal, and wherein the measurement includes a reference signal received power (RSRP) for the reference signal.

8. The apparatus of claim 1, wherein the at least one processor is further configured to: receive, from a network device of the one or more network devices, an indication of a beam to use for the uplink communication, the beam associated with a reception point of the plurality of reception points; and wherein, to transmit the uplink communication according to the selected power control configuration, the at least one processor is configured cause the apparatus to transmit the uplink communication via the beam associated with the reception point.

9. The apparatus of claim 1, wherein the layer is a physical layer of the apparatus, and wherein the at least one processor is further configured to: determine, at a physical layer of the apparatus, a reference signal received power (RSRP) for a reference signal received by the apparatus, wherein the transmit power is based at least in part on the RSRP as determined at the physical layer of the apparatus.

10. The apparatus of claim 1, wherein the layer is a physical layer of the apparatus, and wherein the at least one processor is further configured to: determine and filter a reference signal received power (RSRP) at the physical layer of the apparatus based at least in part on the uplink communication type; and determine the path loss at the physical layer of the apparatus based at least in part on the uplink communication type, the path loss based at least in part on the RSRP determined and filtered at the physical layer of the apparatus, wherein the transmit power is based at least in part on the path loss determined at the physical layer of the apparatus.

11. The apparatus of claim 1, wherein the uplink communication type comprises a low latency or high reliability communication type, and wherein: the transmit power for the uplink communication is based at least in part on a default transmit power for the low latency or high reliability communication type.

12. The apparatus of claim 11, wherein the at least one processor is further configured to: receive, from a network device of the one or more network devices, an indication of the default transmit power for the low latency or high reliability communication type.

13. The apparatus of claim 1, wherein the uplink communication type comprises a scheduling type for the uplink communication, and wherein: the transmit power for the uplink communication is based at least in part on a default transmit power for the scheduling type.

14. The apparatus of claim 1, wherein the at least one processor is further configured to: receive a downlink communication over a first bandwidth; determine the path loss of the downlink communication over a second bandwidth that is narrower than the first bandwidth; and select the power control configuration further based at least in part on the path loss over the second bandwidth.

15. The apparatus of claim 14, wherein, to determine the path loss over the second bandwidth, the at least one processor is configured to: identify a set of resource blocks semi-persistently scheduled for the apparatus; and measure the path loss based at least in part on a reference signal received via the set of resource blocks.

16. The apparatus of claim 1, wherein the uplink communication type comprises a low latency or high reliability communication type or a semi-persistently scheduled communication type.

17. The apparatus of claim 16, wherein, to transmit the uplink communication according to the selected power control configuration, the at least one processor is configured to: transmit the uplink communication at the transmit power specific to the low latency or high reliability communication type or the semi-persistently scheduled communication type.

18. The apparatus of claim 16, wherein, to select the power control configuration, the at least one processor is configured to: select a step size for transmit power adjustments specific to the low latency or high reliability communication type or the semi-persistently scheduled communication type.

19. The apparatus of claim 1, wherein the selected power control configuration comprises a first set of transmission parameters for initial transmissions and a second set of transmission parameters for retransmission, and wherein, to transmit the uplink communication according to the selected power control configuration, the at least one processor is configured to: transmit the uplink communication according to the first set of transmission parameters; and retransmit the uplink communication according to the second set of transmission parameters.

20. An apparatus for wireless communication, comprising: a memory; and at least one processor coupled to the memory, wherein the at least one processor is configured to: select a power control configuration for an uplink communication from a user equipment (UE) based at least in part on an uplink communication type of the uplink communication, wherein a path loss is to be determined by the UE at a layer, the layer based at least in part on the uplink communication type, wherein the uplink communication is for reception by a plurality of reception points, and wherein the power control configuration is included in a set of power control configurations corresponding to the plurality of reception points; transmit, to the UE, an indication of the selected power control configuration; and receive, from the UE, the uplink communication in accordance with the selected power control configuration.

21. The apparatus of claim 20, wherein the at least one processor is further configured to: transmit, to the UE, signaling that indicates the set of power control configurations corresponding to the plurality of reception points.

22. The apparatus of claim 20, wherein, to transmit the indication of the selected power control configuration, the at least one processor is configured to: transmit the indication of the selected power control configuration via a downlink control information (DCI) message.

23. The apparatus of claim 20, wherein the set of power control configurations includes, for each reception point of the plurality of reception points, a respective power control configuration for which the respective reception point is a primary reception point for the uplink communication.

24. The apparatus of claim 20, wherein the at least one processor is further configured to: transmit, to the UE, an indication of a beam to use for the uplink communication, the beam associated with a reception point of the plurality of reception points.

25. The apparatus of claim 20, wherein, to transmit the indication of the selected power control configuration, the at least one processor is configured to: transmit, to the UE, an indication to adjust the transmit power of the uplink communication based at least in part on physical layer measurements by the UE.

26. The apparatus of claim 20, wherein the uplink communication type comprises a low latency or high reliability communication type or a semi-persistently scheduled communication type, and wherein, to select the power control configuration, the at least one processor is configured to: select a default transmit power or step size for transmit power

adjustments that is specific to the low latency or high reliability communication type or the semi-persistently scheduled communication type.

27. The apparatus of claim 20, wherein, to transmit the indication of the selected power control configuration, the at least one processor is configured to: configure the UE for communications over a first bandwidth; and transmit, to the UE, an indication to adjust the transmit power of the uplink communication based at least in part on a measurement over a second bandwidth that is narrower than the first bandwidth.

28. The apparatus of claim 20, wherein, to select the power control configuration, the at least one processor is configured to: select a first set of transmission parameters for initial transmissions and a second set of transmission parameters for retransmissions.

29. A method of wireless communication performed by an apparatus, comprising: selecting a power control configuration for an uplink communication based at least in part on an uplink communication type of the uplink communication, wherein the uplink communication is for reception by a plurality of reception points, and wherein the power control configuration is included in a set of power control configurations corresponding to the plurality of reception points; determining a path loss at a layer, wherein the layer is based at least in part on the uplink communication type; and transmitting the uplink communication according to the selected power control configuration, wherein transmitting the uplink communication according to the selected power control configuration comprises transmitting the uplink communication with a transmit power that is based at least in part on the path loss determined at the layer.

30. A method of wireless communication performed by a network device, comprising: selecting a power control configuration for an uplink communication from a user equipment (UE) based at least in part on an uplink communication type of the uplink communication, wherein a path loss is to be determined by the UE at a layer, the layer based at least in part on the uplink communication type, wherein the uplink communication is for reception by a plurality of reception points, and wherein the power control configuration is included in a set of power control configurations corresponding to the plurality of reception points; transmitting, to the UE, an indication of the selected power control configuration; and receiving, from the UE, the uplink communication in accordance with the selected power control configuration.