CLAIMS

1. A method for controlling transmit power in wireless communications, comprising:

determining, at a user equipment (UE), that communications with a base station are configured over a connection associated with a threshold reliability;

adjusting a configured transmit power to an adjusted transmit power for a transmission attempt over the connection, wherein adjusting the configured transmit power is based at least in part on determining that the connection is associated with the threshold reliability and the configured transmit power is adjusted by a transmit power adjustment value based at least in part on a transmission attempt index for the transmission attempt; and

transmitting data at the adjusted transmit power.

2. The method of claim 1, wherein the transmission attempt index corresponds to a new data indicator (NDI) specified by the base station for the data to be transmitted.

3. The method of claim 2, further comprising:

mapping multiple transmit power adjustment values, including the transmit power adjustment value, to possible values for a transmit power control (TPC) command; and

receiving the TPC command from the base station, wherein the configured transmit power is adjusted by the transmit power adjustment value that maps, based on the mapping, to a value indicated in the TPC command.

4. The method of claim 3, wherein the TPC command is a group TPC command for a plurality of UEs, and further comprising determining the transmission attempt index as the NDI indicating a new transmission of the data.

5. The method of claim 3, further comprising:

receiving multiple TPC commands for multiple carriers; and

selecting the TPC command of a primary cell related to one of the multiple carriers.

6. The method of claim 2, further comprising determining the transmission attempt index as the NDI indicating a new transmission of the data based on determining the data is channel state information (CSI) control data.

7. The method of claim 1, wherein the configured transmit power is adjusted by a transmit power adjustment value based at least in part on a packet deadline for transmitting data corresponding to the transmission attempt.

8. The method of claim 1, wherein the configured transmit power is adjusted by a transmit power adjustment value based at least in part on a queue length of a transmission buffer storing data for transmitting to the base station.

9. The method of claim 1, wherein the configured transmit power is adjusted by a transmit power adjustment value based at least in part on a remaining number of transmission attempts available for the UE before expiration of the data.

10. The method of claim 1, further comprising receiving a configuration from the base station for adjusting the configured transmit power, wherein adjusting the configured transmit power is based at least in part on the configuration.

11. The method of claim 10, wherein the configuration indicates to adjust the configured transmit power by a fixed or variable transmit power adjustment value for one or more transmission attempts of the data.

12. The method of claim 11, wherein the configuration indicates to adjust the configured transmit power by a fixed or variable transmit power adjustment value based on at least one of a transmission attempt index of the transmission attempt, a number of remaining transmission attempts, a remaining time until a packet deadline, or a queue length of a transmission buffer.

13. The method of claim 11, wherein the configuration indicates to increase the configured transmit power to a maximum transmit power for retransmission attempts.

14. The method of claim 1, further comprising determining one or more parameters related to a deadline for transmitting the data, wherein adjusting the configured transmit power is based at least in part on the one or more parameters.

15. The method of claim 1, wherein adjusting the configured transmit power is based at least in part on determining that the transmission attempt corresponds to a retransmission attempt for the data.

16. An apparatus for wireless communication, comprising:

a transceiver for communicating one or more wireless signals via one or more antennas;

a memory configured to store instructions; and

one or more processors communicatively coupled with the transceiver and the memory, wherein the one or more processors are configured to:

determine that communications with a base station are configured over a connection associated with a threshold reliability;

adjust a configured transmit power to an adjusted transmit power for a transmission attempt over the connection, wherein adjusting the configured transmit power is based at least in part on determining that the connection is associated with the threshold reliability;

adjust the configured transmit power by a transmit power adjustment value based at least in part on a transmission attempt index for the transmission attempt; and

transmit data at the adjusted transmit power.

17. The apparatus of claim 16, wherein the transmission attempt index corresponds to a new data indicator (NDI) specified by the base station for the data to be transmitted.

18. The apparatus of claim 17, wherein the one or more processors are further configured to:

map multiple transmit power adjustment values, including the transmit power adjustment value, to possible values for a transmit power control (TPC) command; and

receive the TPC command from the base station, wherein the one or more processors are configured to adjust the configured transmit power by the transmit power adjustment value that maps, based on the mapping, to a value indicated in the TPC command.

19. The apparatus of claim 18, wherein the TPC command is a group TPC command for a plurality of UEs, and wherein the one or more processors are further configured to determine the transmission attempt index as the NDI indicating a new transmission of the data.

20. The apparatus of claim 18, wherein the one or more processors are further configured to:

receive multiple TPC commands for multiple carriers; and

select the TPC command of a primary cell related to one of the multiple carriers.

21. The apparatus of claim 17, wherein the one or more processors are further configured to determine the transmission attempt index as the NDI indicating a new transmission of the data based on determining the data is channel state information (CSI) control data.

22. The apparatus of claim 16, wherein the one or more processors are configured to adjust the configured transmit power by a transmit power adjustment value based at least in part on a packet deadline for transmitting data corresponding to the transmission attempt.

23. The apparatus of claim 16, wherein the one or more processors are configured to adjust the configured transmit power by a transmit power adjustment value based at least in part on a queue length of a transmission buffer storing data for transmitting to the base station.

24. The apparatus of claim 16, wherein the one or more processors are configured to adjust the configured transmit power by a transmit power adjustment value based at least in part on a remaining number of transmission attempts available for the UE before expiration of the data.

25. An apparatus for wireless communication, comprising:

means for determining, at a user equipment (UE), that communications with a base station are configured over a connection associated with a threshold reliability;

means for adjusting a configured transmit power to an adjusted transmit power for a transmission attempt over the connection, wherein adjusting the configured transmit power is based at least in part on determining that the connection is associated with the threshold reliability;

means for adjusting the configured transmit power by a transmit power adjustment value based at least in part on a transmission attempt index for the transmission attempt; and

means for transmitting data at the adjusted transmit power.

26. A non-transitory computer-readable medium, comprising code executable by one or more processors for wireless communications, the code comprising:

code for determining, at a user equipment (UE), that communications with a base station are configured over a connection associated with a threshold reliability;

code for adjusting a configured transmit power to an adjusted transmit power for a transmission attempt over the connection, wherein adjusting the configured transmit power is based at least in part on determining that the connection is associated with the threshold reliability;

code for adjusting adjusts the configured transmit power by a transmit power adjustment value based at least in part on a transmission attempt index for the transmission attempt; and

code for transmitting data at the adjusted transmit power.