CLAIMS

1. A method for wireless communications by a user equipment (UE), comprising: sending a first random access preamble to a base station (BS) during a first random access procedure; receiving a random access response from the BS including a backoff indicator; and determining whether to send a second random access preamble to the BS during a backoff period based, at least in part, on a type of the first random access procedure.

2. The method of claim 1, wherein determining whether to send the second random access preamble to the BS during the backoff period based on the type of the first random access procedure comprises: determining a signal quality of one or more reference signals from the BS if the first random access procedure was initiated as a contention-free random access (CFRA) procedure.

3. The method of claim 2, further comprising: comparing the determined signal quality to a threshold, wherein determining whether to send the second random access preamble to the BS during the backoff period is further based on the comparison.

4. The method of claim 3, wherein determining whether to send the second random access preamble to the BS during the backoff period based on the comparison comprises: determining to send the second random access preamble if the determined signal quality satisfies the threshold.

5. The method of claim 3, wherein determining whether to send the second random access preamble to the BS during the backoff period based on the comparison comprises: determining to wait for a next reference signal or expiry of the backoff period if the determined signal quality does not satisfy the threshold.

6. The method of claim 2, wherein determining the signal quality of one or more reference signals from the BS comprises: waiting for the one or more reference signals and measuring the signal quality of the one or more reference signal; or checking a most recent measured signal quality of the one or more reference signals.

7. The method of claim 1, wherein determining whether to send the second random access preamble to the BS during the backoff period based on the type of the random access procedure comprises: determining to wait for expiry of the backoff period if the first random access procedure was initiated as a contention-based random access (CBRA) procedure.

8. The method of claim 1, further comprising transmitting the second random access preamble to the BS during the backoff period based on the determination.

9. The method of claim 1, wherein the second random access preamble is a contention-free random access (CFRA) preamble.

10. An apparatus for wireless communications, comprising: a memory; and at least one processor coupled with the memory and configured to: send a first random access preamble to a base station (BS) during a first random access procedure; receive a random access response from the BS including a backoff indicator; and determine whether to send a second random access preamble to the BS during a backoff period based, at least in part, on a type of the first random access procedure.

11. The apparatus of claim 10, wherein the at least one processor is configured to determine whether to send the second random access preamble to the BS during the backoff period based on the type of the first random access procedure by: determining a signal quality of one or more reference signals from the BS if the first random access procedure was initiated as a contention-free random access (CFRA) procedure.

12. The apparatus of claim 11, wherein the at least one processor is further configured to: compare the determined signal quality to a threshold, and determine whether to send the second random access preamble to the BS during the backoff period further based on the comparison.

13. The apparatus of claim 12, wherein the at least one processor is configured to determine whether to send the second random access preamble to the BS during the backoff period based on the comparison by: determining to send the second random access preamble if the determined signal quality satisfies the threshold.

14. The apparatus of claim 12, wherein the at least one processor is configured to determine whether to send the second random access preamble to the BS during the backoff period based on the comparison by: determining to wait for a next reference signal or expiry of the backoff period if the determined signal quality does not satisfy the threshold.

15. The apparatus of claim 11, wherein the at least one processor is configured to determine the signal quality of one or more reference signals from the BS by: waiting for the one or more reference signals and measuring the signal quality of the one or more reference signal; or checking a most recent measured signal quality of the one or more reference signals.

16. The apparatus of claim 10, wherein the at least one processor is configured to determine whether to send the second random access preamble to the BS during the backoff period based on the type of the random access procedure by: determining to wait for expiry of the backoff period if the first random access procedure was initiated as a contention-based random access (CBRA) procedure.

17. The apparatus of claim 10, wherein the at least one processor is configured to transmit the second random access preamble to the BS during the backoff period based on the determination.

18. The apparatus of claim 10, wherein the second random access preamble is a contention-free random access (CFRA) preamble.

19. A method for wireless communications by a base station (BS), comprising: receiving a first random access preamble from a user equipment (UE) during a first random access procedure; sending a random access response to the UE including a backoff indicator; and receiving a second random access preamble from the UE during a backoff period wherein the receiving is based, at least in part, on a type of the first random access procedure.

20. An apparatus for wireless communications, comprising: a memory; and at least one processor coupled with the memory and configured to: receive a first random access preamble from a user equipment (UE) during a first random access procedure; send a random access response to the UE including a backoff indicator; and receive a second random access preamble from the UE during a backoff period wherein the receiving is based, at least in part, on a type of the first random access procedure.