

CLAIMS

1. A method for wireless communication at a user equipment (UE), comprising:
 - sensing a first channel prior to a random access preamble and a radio resource control (RRC) connection request included in a first random access message;
 - transmitting, to a base station, the first random access message, wherein the RRC connection request is transmitted over one or more physical uplink shared channel transmit occasions based at least in part on sensing the first channel and wherein the RRC connection request is transmitted using a fixed redundancy version for the RRC connection request, wherein the fixed redundancy version is for transmission of the RRC connection request and for retransmission of the RRC connection request;
 - monitoring a response window of a second channel to receive a second random access message in response to the first random access message, the response window based at least in part on a configured timer, wherein the second random access message indicates one of: successful first random access message reception or a fallback procedure; and
 - establishing a connection with the base station, based, at least in part, on the first random access message and the second random access message.
2. The method of claim 1, wherein the second random access message comprises at least a random access response and a connection setup message, the random access response and the connection setup message indicating the successful first random access message reception.
3. The method of claim 1, wherein the second random access message comprises at least a preamble index and an uplink grant, the preamble index and the uplink grant indicating the fallback procedure.
4. The method of claim 3, further comprising:
 - transmitting a third random access message based at least in part on the second random access message indicating the fallback procedure, the third random access message comprising the retransmission of the RRC connection request, wherein the third random access message is transmitted using the fixed redundancy version for the RRC connection request;

receiving a fourth random access message from the base station in response to the third random access message, the fourth random access message comprising a connection setup message in response to the RRC connection request; and

wherein establishing the connection is further based at least in part on the third random access message and the fourth random access message.

5. The method of claim 1, wherein monitoring the response window of the second channel further comprises initiating the response window of the second channel following the RRC connection request.

6. The method of claim 1, wherein monitoring the response window of the second channel further comprises initiating the response window of the second channel following the random access preamble and prior to the RRC connection request.

7. The method of claim 1, wherein the successful first random access message reception is associated with a two-step random access procedure and the fallback procedure is associated with a four-step random access procedure.

8. The method of claim 1, wherein the second random access message comprises a first format if indicating the successful first random access message reception and a second format if indicating the fallback procedure.

9. An apparatus for wireless communication at a user equipment (UE), comprising:

a processor,

memory coupled with the processor; and

instructions stored in the memory and executable by the processor to cause the apparatus to:

sense a first channel prior to a random access preamble and a radio resource control (RRC) connection request included in a first random access message;

transmit, to a base station, the first random access message, wherein the RRC connection request is transmitted over one or more physical uplink shared channel transmit occasions based at least in part on sensing the first channel and wherein the RRC connection request is transmitted using a fixed redundancy version for the RRC

connection request, wherein the fixed redundancy version is for transmission of the RRC connection request and for retransmission of the RRC connection request;

monitor a response window of a second channel to receive a second random access message in response to the first random access message, the response window based at least in part on a configured timer,

wherein the second random access message indicates one of:

successful first random access message reception or a fallback procedure; and

establish a connection with the base station based at least in part on the first random access message and the second random access message.

10. The apparatus of claim 9, wherein the second random access message comprises at least a random access response and a connection setup message, the random access response and the connection setup message indicating the successful first random access message reception.

11. The apparatus of claim 9, wherein the second random access message comprises at least a preamble index and an uplink grant, the preamble index and the uplink grant indicating the fallback procedure.

12. The apparatus of claim 11, wherein the instructions are further executable by the processor to cause the apparatus to:

transmit a third random access message based at least in part on the second random access message comprising the preamble index and the uplink grant, the third random access message comprising the retransmission of the RRC connection request, wherein the third random access message is transmitted using the fixed redundancy version for the RRC connection request;

receive a fourth random access message from the base station in response to the third random access message, the fourth random access message comprising a connection setup message in response to the RRC connection request; and

wherein establishing the connection is further based at least in part on the third random access message and the fourth random access message.

13. The apparatus of claim 9, wherein the instructions to monitor the response window of the second channel further are executable by the processor to cause the apparatus to initiate the response window of the second channel following the RRC connection request.

14. The apparatus of claim 9, wherein the successful first random access message reception is associated with a two-step random access procedure and the fallback procedure is associated with a four-step random access procedure.

15. The apparatus of claim 9, wherein the second random access message comprises a first format if indicating the successful first random access message reception and a second format if indicating the fallback procedure.

16. An apparatus for wireless communication at a user equipment (UE), comprising:

means for sensing a first channel prior to a random access preamble and a radio resource control (RRC) connection request included in a first random access message;

means for transmitting, to a base station, the first random access message, wherein the RRC connection request is transmitted over one or more physical uplink shared channel transmit occasions based at least in part on sensing the first channel and wherein the RRC connection request is transmitted using a fixed redundancy version for the RRC connection request, wherein the fixed redundancy version is for transmission of the RRC connection request and for retransmission of the RRC connection request;

means for monitoring a response window of a second channel to receive a second random access message in response to the first random access message, the response window based at least in part on a configured timer, wherein the second random access message indicates one of: successful first random access message reception or a fallback procedure; and

means for establishing a connection with the base station based at least in part on the first random access message and the second random access message.

17. The apparatus of claim 16, wherein the second random access message comprises at least a random access response and a connection setup message, the random access response and the connection setup message indicating the successful first random access message reception.

18. The apparatus of claim 16, wherein the second random access message comprises at least a preamble index and an uplink grant, the preamble index and the uplink grant indicating the fallback procedure.

19. The apparatus of claim 18, further comprising:
means for transmitting a third random access message based at least in part on the second random access message indicating the fallback procedure, the third random access message comprising the retransmission of the RRC connection request, wherein the third random access message is transmitted using the fixed redundancy version for the RRC connection request; and
means for receiving a fourth random access message from the base station in response to the third random access message, the fourth random access message comprising a connection setup message in response to the RRC connection request,
wherein establishing the connection is further based at least in part on the third random access message and the fourth random access message.

20. The apparatus of claim 16, wherein the means for monitoring the response window of the second channel further comprises means for initiating the response window of the second channel following the RRC connection request.

21. The apparatus of claim 16, wherein the means for monitoring the response window of the second channel further comprises means for initiating the response window of the second channel following the random access preamble and prior to the RRC connection request.

22. The apparatus of claim 16, wherein the successful first random access message reception is associated with a two-step random access procedure and the fallback procedure is associated with a four-step random access procedure.

23. The apparatus of claim 16, wherein the second random access message comprises a first format if indicating the successful first random access message reception and a second format if indicating the fallback procedure.

24. A non-transitory computer-readable medium storing code for wireless communication at a user equipment (UE), the code comprising instructions executable by a processor for the method of any one of claims 1-8.